

STORMWATER MANAGEMENT REPORT

**MONROE TOWNSHIP DOG PARK
BLOCK 13001
LOTS 16, 24 AND 28**

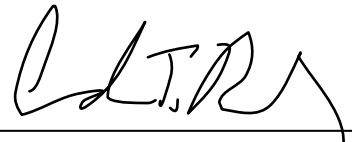
**MONROE TOWNSHIP
GLOUCESTER, NEW JERSEY**

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MTSPX20052

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1.0 INTRODUCTION

The Township of Monroe is proposing to construct a public recreation facility located on Block 13001, Lots 16, 24 and 28 as shown on the Township of Monroe Tax Map Sheet 130. The site includes approximately 50 acres (per the tax map) and this location is primarily undeveloped. An existing Atlantic City Electric easement will be utilized for site access. The site is considered major development as improvements disturb more than one acre and impervious surface will be increased by more than a quarter acre.

Pennoni Associates has been retained to provide design services for the proposed Monroe Township Dog Park. Design Plans entitled “Monroe Township Dog Park – Permit Site Plans” dated July 31, 2020 and as revised have been referenced in support of this drainage analysis. This report has been prepared to address stormwater conveyance and stormwater management to satisfy New Jersey Pinelands Commission, Municipal, County and NJDEP regulations.

2.0 PROJECT DESCRIPTION

Existing Conditions

The existing site is currently undeveloped with minimal impervious surfaces. Portions of the existing site to be disturbed is developed with an Atlantic City Electric Power Transmission easement that is cleared to a maintained lawn. Other portions of the site consist of woodlands and open farmland. The existing site has been divided into separate existing drainage areas as shown on the drainage maps in the Appendices.

Existing Drainage Area 100 (E-100) consists of approximately 2.3 acres and flows toward the southeastern boundary of the Atlantic City Electric Easement. The area consists of grass, small areas of paving and the power transmission lines.

Existing Drainage Area 200 (E-200) consists of approximately 3.7 acres that flows toward the southeastern boundary of the site through a naturally occurring swale. The area is comprised of primarily grass, but there are also areas of existing woodlands. The power transmission lines continue to bisect this area.

Existing Drainage Area 300 (E-300) consists of approximately 1.5 acres that flows towards the east through the existing field. The area consists of mainly idle farmland with portions of woodlands.

Existing Drainage Area 400 (E-400) consists of approximately 3.5 acres that flows towards the south and overland into the existing idle field. The area is comprised of woodlands and idle farmland.

There are additional offsite areas which drain into the property but will not be collected by the proposed stormwater system.

This site is not located within a previously developed urban redevelopment area. This site is subject to stormwater flow reductions pursuant to N.J.A.C. 7:8-5.4(ii). C-1 waters are not located within in the HUC-14. The site is located within the Hospitality Branch sub-watershed and within the #15 Great Egg Harbor watershed management area. Existing runoff hydrographs are located within Appendices. A diagram of the stormwater model has been provided within this report.

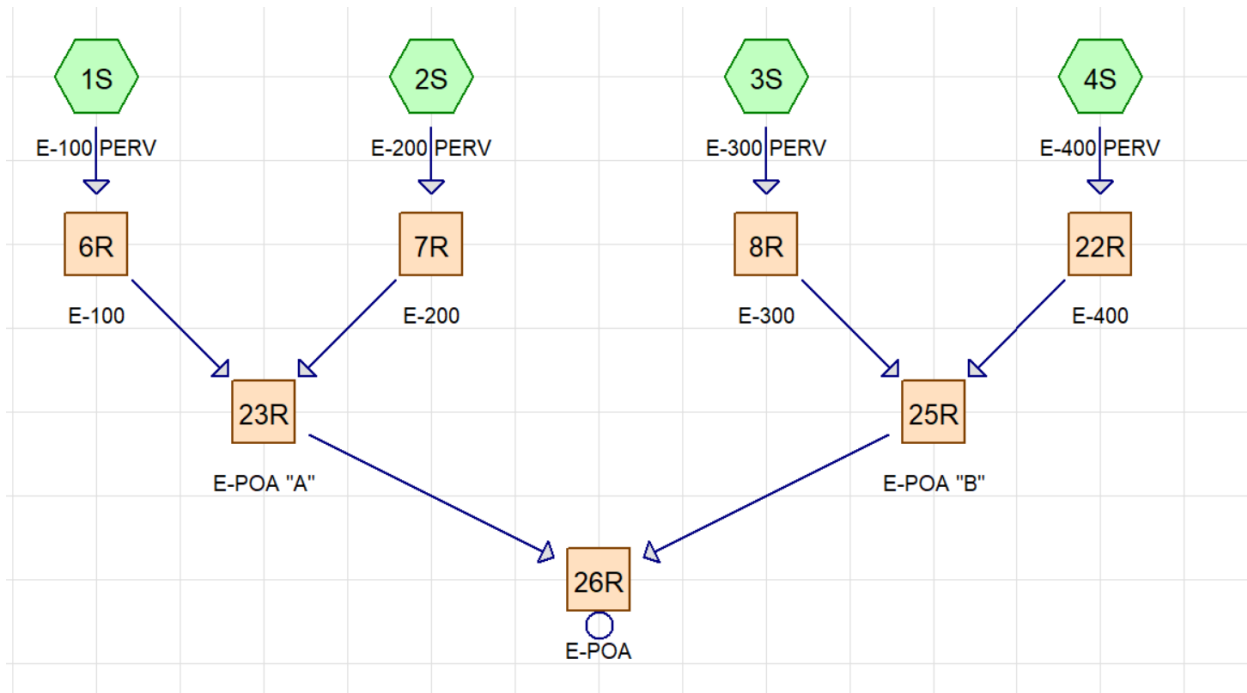


Diagram of Stormwater Model for Existing Condition

Proposed Conditions

According to N.J.A.C 7:8-1.2, "Major development means any development that provides for ultimately disturbing one or more acres of land or increasing impervious surface by one-quarter acre or more. Disturbance for the purpose of this rule is the placement of impervious surface or exposure and/or movement of soil or bedrock or clearing, cutting, or removing of vegetation. Projects undertaken by any government agency which otherwise meet the definition of major development, but which do not require approval under the Municipal Land Use Law, N.J.S.A. 40:55D-1 et seq., are also considered major development." The proposed site is disturbing more than one acre with 1.15 acres impervious surface. The site improvements are determined to be a major stormwater development. (Gravel driveways and paths for the purposes of the stormwater analysis have been assigned CN numbers of 98, which will permit future modification to fully paved surfaces without requiring an additional stormwater approval and/or analysis.)

The proposed site is divided into four separate proposed drainage areas. The proposed site will consist of impervious surfaces consisting of the driveways, trails, and parking lots.

Proposed Drainage Area 100 (P-100) consists of approximately 2.3 acres and flows toward the southeastern boundary of the Atlantic City Electric Easement. The area consists of grass, the gravel driveway (considered fully impervious), the bike path and the power transmission line.

Proposed Drainage Area 200 (P-200) consists of approximately 3.7 acres that flows toward the southeastern boundary of the site through a naturally occurring swale. The area is comprised of primarily grass, but there are also areas of existing woodland. The power transmission lines continue to bisect this area. The gravel driveway (considered impervious) and bike path will be contained within this area. This drainage area will be redirected through a proposed culvert. The culvert is located at an existing swale and existing depression areas located within the woodlands. The existing natural drainage feature is being utilized to attenuate storm flow rates.

Proposed Drainage Area 300 (P-300) consists of approximately 1.5 acres that flows towards the east through the existing field. This area will consist of the remaining woodlands, the parking lots, and portions of the dog bone loop trail. This drainage area will be collected by a shallow rainwater garden located adjacent to the parking lot. The rainwater garden will provide a collection area to attenuate stormwater runoff and provide recharge. Proposed grass seeding surrounding the downstream perimeter will be a wildflower meadow mix which provides an additional benefit of increasing times of concentration.

Proposed Drainage Area 400 (P-400) consists of approximately 3.5 acres that flows towards the south and overland into the existing idle field. This area consists primarily of the dog bone and the proposed dog park amenities. A wildflower mix will be proposed to restore a meadow along the perimeter of the site which will provide a benefit of increasing impervious surfaces.

The additional offsite drainage area P-500 has not been included within the drainage model. This drainage area is left undisturbed by the proposed development and will continue to drain through the site unimpacted.

Proposed runoff hydrographs are located within Appendices. A diagram of the stormwater model has been provided within this report.

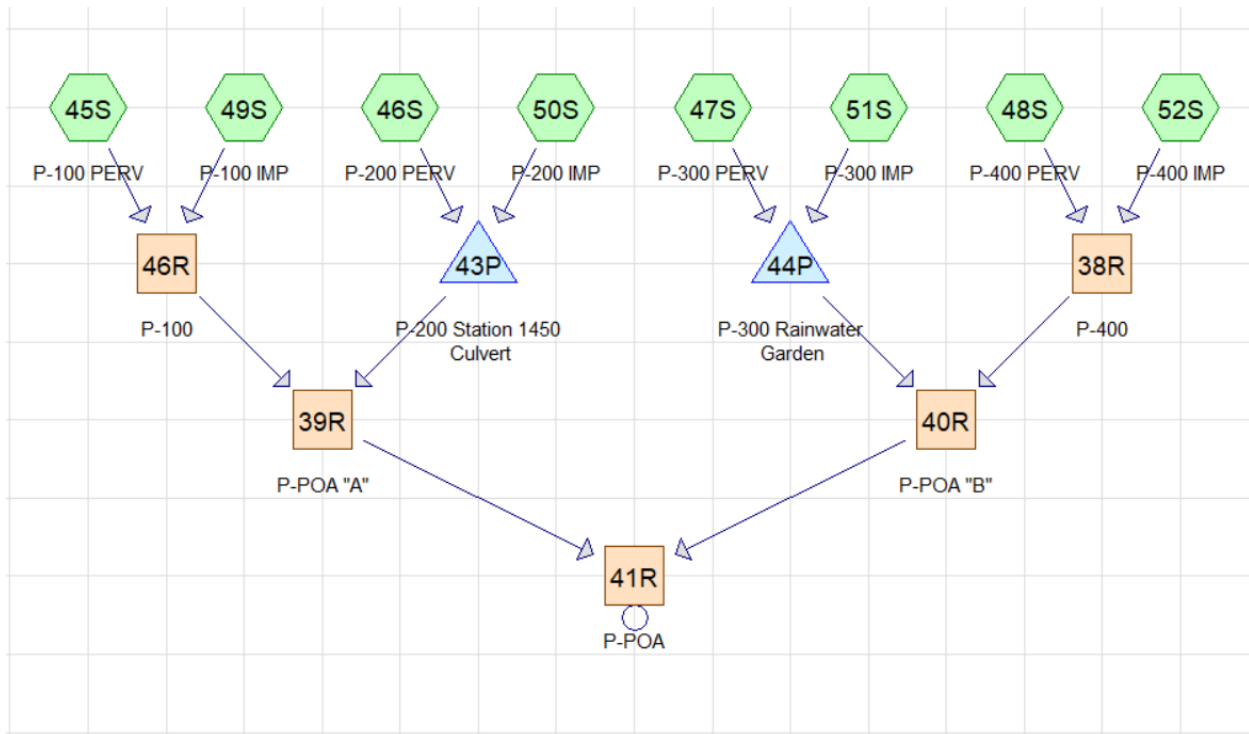


DIAGRAM OF STORMWATER MODEL FOR PROPOSED CONDITION

3.0 STORMWATER MANAGEMENT DESIGN CRITERIA & COMPLIANCE STATEMENT

The stormwater management analysis and design are in accordance with the Stormwater Management Rules promulgated by N.J.A.C. 7:8, subchapters 5 and 6; the New Jersey Stormwater Best Management Practices Manual; and the New Jersey Soil Erosion and Sediment Control Standards as in effect as of the date of this report. A compliance statement following N.J.A.C. 7:8, subchapter 5 is provided with compliance a statement in bold.

7:8-5.1 Scope

(a) This subchapter establishes design and performance standards for stormwater management measures for(a) major development intended to minimize the adverse impact of stormwater runoff on water quality and water quantity and loss of groundwater recharge in receiving water bodies.

The proposed development is classified as a major development. This compliance statement will demonstrate that the applicable standards has been achieved.

(b) The standards specified in this subchapter do not apply to major development if alternative design and performance standards that are at least as protective as would be achieved through this subchapter when considered on a regional stormwater management area basis are applicable under a regional stormwater management plan adopted in accordance with this chapter or a water quality management plan adopted in accordance with N.J.A.C. 7:15.

Alternative design and performance standards are not applied in this design.

7:8-5.2 Stormwater Management Measures for Major Development

(a) Stormwater management measures for major development shall be developed to meet the erosion control, groundwater recharge, stormwater runoff quantity, and stormwater runoff quality standards at N.J.A.C. 7:8-5.4 and 5.5. To the maximum extent practicable, these standards shall be met by incorporating nonstructural stormwater management strategies at N.J.A.C. 7:8-5.3 into the design. If these measures alone are not sufficient to meet these standards, structural stormwater management measures at N.J.A.C. 7:8-5.7 necessary to meet these standards shall be incorporated into the design.

The proposed development is classified as a major development. Both nonstructural stormwater management strategies and structural stormwater management strategies are required.

(b) The development shall incorporate a maintenance plan under N.J.A.C. 7:8-5.8 for the stormwater management measures.

The proposed development is classified as a major development. A maintenance plan has not been provided for this site development. Upon completion of the construction, the site is to be maintained in accordance with design conditions set forth within this drainage analysis.

(c) Stormwater management measures shall avoid adverse impacts of concentrated flow on habitat for threatened and endangered species as documented in the Department's Landscape Project or Natural Heritage Database established under N.J.S.A. 13:1B-15.147 through 15.150, particularly *Helonias bullata* (swamp pink) and/or *Clemmys muhlnebergi* (bog turtle).

Adverse impacts for concentrated flow on habitat for threatened and endangered species are not expected.

(d) The following linear development projects are exempt from the groundwater recharge, stormwater runoff quantity, and stormwater runoff quality requirements at N.J.A.C. 7:8-5.4 and 5.5:

- 1) The construction of an underground utility line provided that the disturbed areas are revegetated upon completion;

- 2) The construction of an aboveground utility line provided that the existing conditions are maintained to the maximum extent practicable; and
- 3) The construction of a public pedestrian access, such as a sidewalk or trail with a maximum width of 14 feet, provided that the access is made of permeable material.

None of above is applicable to this project.

(e) A waiver from strict compliance from the groundwater recharge, stormwater runoff quantity, and stormwater runoff quality requirements at N.J.A.C. 7:8-5.4 and 5.5 may be obtained for the enlargement of an existing public roadway or railroad, or the construction or enlargement of a public pedestrian access, provided that the following conditions are met:

- 1) The applicant demonstrates that there is a public need for the project that cannot be accomplished by any other means;
- 2) The applicant demonstrates through an alternatives analysis, that through the use of nonstructural and structural stormwater management strategies and measures, the option selected complies with the requirements of N.J.A.C. 7:8-5.4 and 5.5 to the maximum extent practicable;
- 3) The applicant demonstrates that, in order to meet the requirements at N.J.A.C. 7:8-5.4 and 5.5 existing structures currently in use, such as homes and buildings would need to be condemned; and
- 4) The applicant demonstrates that it does not own or have other rights to areas, including the potential to obtain through condemnation lands not falling under (e)3 above within the upstream drainage area of the receiving stream, that would provide additional opportunities to mitigate for requirements of N.J.A.C. 7:8-5.4 and 5.5 that were not achievable onsite.

General compliance with the overall stormwater management rules has been provided. However, this project contains elements of a proposed public access, thus a waiver of strict compliance for the interpretation of the stormwater regulations is required.

7:8-5.3 Nonstructural Stormwater Management Strategies

(a) To the maximum extent practicable, the standards in N.J.A.C. 7:8-5.4 and 5.5 shall be met by incorporating nonstructural stormwater management strategies at N.J.A.C. 7:8-5.3 into the design. The person submitting an application for review shall identify the nonstructural strategies incorporated into the design of the project. If the applicant contends that it is not feasible for engineering, environmental, or safety reasons to incorporate any nonstructural stormwater management strategies identified in (b) below into the design of a particular project, the applicant shall identify the strategy and provide a basis for the contention.

The proposed development is classified as a major development.

(b) Nonstructural stormwater management strategies incorporated into site design shall:

- 1) Protect areas that provide water quality benefits or areas particularly susceptible to erosion and sediment loss;

Erosion control methods will be in place prior to land disturbance to protect sediment from tracking into street.

- 2) Minimize impervious surfaces and break up or disconnect the flow of runoff over impervious surfaces;

Impervious surfaces are designed to meet the minimum requirements necessary for site operations. Grading has been designed to allow runoff from the drive aisles to sheet flow into grassed swale areas. A vegetated wildflower border has been provided that increases the time of concentration which provides additional attenuation.

- 3) Maximize the protection of natural drainage features and vegetation;

Erosion control measures, such as silt fence, will be in place prior to construction to better define the limits of disturbance.

- 4) Minimize the decrease in the "time of concentration" from pre-construction to post-construction. "Time of Concentration" is defined as the time it takes for runoff to travel from the hydraulically most distant point of the drainage area to the point of interest within a watershed;

The existing drainage patterns are maintained within the watershed. A proposed wildflower boarder is proposed which will lengthen times of concentration.

- 5) Minimize land disturbance including clearing and grading;

Clearing limits are retained to access driveway, proposed shared use path, and limited clearing within the recreational area.

- 6) Minimize soil compaction;

Soil compaction is addressed by the Soil Erosion and Sediment Control plans.

- 7) Provide low-maintenance landscaping that encourages retention and planting of native vegetation and minimizes the use of lawns, fertilizers and pesticides;

Low maintenance landscaping is included within the proposed landscaping design. Proposed seeding mixtures are pursuant to the New Jersey Pinelands Commission Criteria.

- 8) Provide vegetated open-channel conveyance systems discharging into and through stable vegetated areas; and

Grassed swales have been provided along the proposed roadways to attenuate the stormwater runoff and to provide a means for groundwater recharge.

- 9) Provide other source controls to prevent or minimize the use or exposure of pollutants at the site in order to prevent or minimize the release of those pollutants into stormwater runoff. These source controls include, but are not limited to:
 - i. Site design features that help to prevent accumulation of trash and debris in drainage systems;

Proposed stormwater conveyance is provided to comply with the NJPDES Permit No.0141852 to prevent trash and debris from the drainage system.

- ii. Site design features that help to prevent discharge of trash and debris from drainage systems;

Erosion control measures will be in place prior to land disturbance to prevent sediment from discharging into downstream areas. Preventative source controls include trash receptacles at appropriate locations throughout the site.

- iii. Site design features that help to prevent and/or contain spills or other harmful accumulations of pollutants at industrial or commercial developments; and

Provisions of this standard are not anticipated for this project.

- iv. When establishing vegetation after land disturbance, applying fertilizer in accordance with the requirements established under the Soil Erosion and Sediment Control Act, N.J.S.A. 4:24-39 et seq., and implementing rules.

Construction of the project will comply with the Soil Erosion and Sediment Control Act, N.J.S.A 4:24-39 et seq. and implementing rule.

(c) Any land area used as a non-structural stormwater management measure to meet the performance standards in N.J.A.C. 7:8-5.4 and 5.5 shall be dedicated to a government agency, subjected to a conservation restriction filed with the appropriate County Clerk's office, or subject to Department approved or equivalent restriction that ensures that measure or an equivalent stormwater management measure approved by the reviewing agency is maintained in perpetuity.

Conservation restrictions are not applicable to this project.

(d) Guidance for nonstructural stormwater management strategies is available in the New Jersey Stormwater Best Management Practices Manual available from the Department through the address listed at N.J.A.C. 7:8-1.3.

Further compliance to low impact development is discussed in this report.

7:8-5.4 Erosion control, Groundwater Recharge and Runoff Quantity Standards

(a) This section contains minimum design and performance standards to control erosion, encourage and control infiltration and groundwater recharge, and control stormwater runoff quantity impacts of major development.

1. The minimum design and performance standards for erosion control are those established under the Soil Erosion and Sediment Control Act, N.J.S.A. 4:24-39 et seq. and implementing rules.

The erosion control follows the requirements promulgated by the Soil Erosion and Sediment Control Act.

2. The minimum design and performance standards for groundwater recharge are as follows:

i. The design engineer shall, using the assumptions and factors for stormwater runoff and groundwater recharge calculations at N.J.A.C. 7:8-5.6, either:

- (1) Demonstrate through hydrologic and hydraulic analysis that the site and its stormwater management measures maintain 100 percent of the average annual pre-construction groundwater recharge volume for the site; or

The site and its stormwater management measures maintain 100 percent of the average annual pre-construction groundwater recharge volume for the site (See Appendices for NJ Groundwater Recharge Spreadsheet).

- (2) Demonstrate through hydrologic and hydraulic analysis that the increase of stormwater runoff volume from pre-construction to post-construction for the two-year storm is infiltrated.

ii. This groundwater recharge requirement does not apply to projects within the "urban redevelopment area," or to projects subject to (a)2iii below.

The project is not within the "urban redevelopment area", the groundwater recharge requirement is applicable, and compliance has been achieved.

iii. The following types of stormwater shall not be recharged:

- (1) Stormwater from areas of high pollutant loading. High pollutant loading areas are areas in industrial and commercial developments where solvents and/or petroleum products are loaded/unloaded, stored, or applied, areas where pesticides are loaded/unloaded or stored; areas where hazardous materials are expected to be present in greater than 'reportable quantities' as defined by the United States Environmental Protection Agency (EPA) at 40 CFR 302.4; areas where recharge would be inconsistent with a remedial action work plan approved pursuant to the Administrative Requirements for the Remediation of Contaminated Sites rules, N.J.A.C. 7:26C, or a Department approved landfill closure plan; and areas with high risks for spills of toxic materials, such as gas stations and vehicle maintenance facilities; and
- (2) Industrial stormwater exposed to "source material." "Source material" means any material(s) or machinery, located at an industrial facility, that is directly or indirectly related to process, manufacturing or other industrial activities, which could be a source of pollutants in any industrial stormwater discharge to groundwater. Source materials include, but are not limited to, raw materials; intermediate products; final products; waste materials; by-products; industrial machinery and fuels, and lubricants, solvents, and detergents that are related to process, manufacturing, or other industrial activities that are exposed to stormwater.

Stormwater from these types of described drainage areas is not anticipated in this project.

iv. The design engineer shall assess the hydraulic impact on the groundwater table and design the site so as to avoid adverse hydraulic impacts. Potential adverse hydraulic impacts include, but are not limited to, exacerbating a naturally or seasonally high water table so as to cause surficial ponding, flooding of basements, or interference with the proper operation of subsurface sewage disposal systems and other subsurface structures in the vicinity or downgradient of the groundwater recharge area.

An adverse hydraulic impact on the groundwater table is not anticipated.

3. In order to control stormwater runoff quantity impacts, the design engineer shall, using the assumptions and factors for stormwater runoff calculations at N.J.A.C. 7:8-5.6, complete one of the following:

i. Demonstrate through hydrologic and hydraulic analysis that for stormwater leaving the site, post-construction runoff hydrographs for the two, 10 and 100-year storm events do not exceed, at any point in time, the pre-construction runoff hydrographs for the same storm events;

This requirement is not applicable to this project.

ii. Demonstrate through hydrologic and hydraulic analysis that there is no increase, as compared to the pre-construction condition, in the peak runoff rates of stormwater leaving the site for the

two, 10 and 100-year storm events and that the increased volume or change in timing of stormwater runoff will not increase flood damage at or downstream of the site. This analysis shall include the analysis of impacts of existing land uses and projected land uses assuming full development under existing zoning and land use ordinances in the drainage area;

Through hydrologic and hydraulic analysis, there is no increase, in the peak runoff rates of stormwater leaving the site for the two, 10 and 100-year storm events. Change in timing of stormwater runoff is not anticipated to increase flood damage at or downstream of the site.

iii. Design stormwater management measures so that the post-construction peak runoff rates for the two, 10 and 100-year storm events are 50, 75 and 80 percent, respectively, of the pre-construction peak runoff rates. The percentages apply only to the post-construction stormwater runoff that is attributable to the portion of the site on which the proposed development or project is to be constructed; or

This requirement is not applicable to this project.

iv. In tidal flood hazard areas, stormwater runoff quantity analysis in accordance with (a)3i, ii and iii above shall only be applied if the increased volume of stormwater runoff could increase flood damages below the point of discharge.

This requirement is not applicable to this project.

(b) Any application for a new agricultural development that meets the definition of major development at N.J.A.C. 7:8-1.2 shall be submitted to the Soil Conservation District for review and approval in accordance with the requirements of this section and any applicable Soil Conservation District guidelines for stormwater runoff quantity and erosion control. For purposes of this section, "agricultural development" means land uses normally associated with the production of food, fiber and livestock for sale. Such uses do not include the development of land for the processing or sale of food and the manufacture of agriculturally related products.

This regulation is not applicable to this project.

4.0 SOIL SURVEY INFORMATION

Based upon the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) – Web Soil Survey (WSS), the site soil consists of the following:

Aura-Sassafras sandy loams, 2 to 5 percent slopes Hydraulic Soil Group Type B.

Woodstown-Glassboro complex, 0 to 2 percent slopes, Hydraulic Soil Group Type B/D.

Downer sandy loam, 0 to 2 percent slopes, Hydraulic Soil Group Type B.

5.0 TECHNIQUES OF ANALYSIS

In accordance with the stormwater runoff calculation methodology at N.J.A.C. 7:8-5.6, the quantity (volume and rate) of stormwater runoff for pre-developed and post-developed conditions is calculated based on the USDA NRCS methodology as described in TR-55, as published by the US Soil Conservation Service. NRCS 24- hr design storm rainfall depths for New Jersey, as revised September 2004, are used in the calculation.

Post-developed times of concentration (Tc) are determined using the hydraulically longest flow path. Curve numbers (CN) for the drainage areas for the post-developed condition are based on the hydrologic soil group and land use. Refer to Appendices for CN and Tc.

Based upon application of HydroCAD with modified TR-55 calculation Methodology, both the existing and proposed site drainage condition have been modeled.

6.0 HYDROLOGIC PRINCIPALS

A 24-hour, Type III storm distribution was utilized with the following rainfall amounts. The Delmarva unit hydrograph is applied in the analysis.

BURLINGTON COUNTY RAINFALL DISTRIBUTION FREQUENCY

2 year	3.3	inches
10 year	5.0	inches
25 year	6.2	inches
100 year	8.5	inches
NJ WQ Storm	1.25	inches (2-hour)

7.0 EXISTING VERSUS PROPOSED RUNOFF ANALYSIS

Stormwater management facilities are proposed within drainage area 100 (P-100). Both proposed drainage area 100 (P-100) and existing drainage area 101 (E-101) are routed through the stormwater facilities. Tables below summarize the existing peak runoff, flow subjecting to reduction, reduction factor, target flow and proposed flow, according to various rainfall event, respectively. Only disturbed existing drainage areas are subject to peak flow reduction. Existing drainage areas that are not disturbed by the proposed development areas are not subject to peak flow reductions. The following existing drainage areas are subject to flow reductions:

SUMMARY OF PEAK FLOW

	Existing	Proposed
WQ	0 c.f.s.	0.8 c.f.s.
2 YR.	0.7 c.f.s.	1.4 c.f.s.
10 YR.	3.0 c.f.s.	2.1 c.f.s.
25 YR.	5.4 c.f.s.	4.1 c.f.s.
100 YR.	12.0 c.f.s.	7.8 c.f.s.

The proposed peak flow rates have not been increased for the proposed improvement for the 10- year and 100-year storm events. Peak flow reduction is satisfied for these storm events pursuant to N.J.A.C. 7:8-5.4. A waiver of strict compliance regarding the 2-year storm calculation is required due to the peak flow rate increase. To fully comply with the reduction requirement, the site would require additional land disturbance for the construction of a larger stormwater management basin. The proposed overall flow rate will disperse and infiltrate within the remaining portions of the idle farm field. Since the flow rates are less than 2 c.f.s., the flow is not considered a destructed stormwater discharge such to create an erosion issue, therefore by observation it is reasonable to conclude no adverse impact.

8.0 WATER QUALITY ANALYSIS

Based upon N.J.A.C. 7:8-5.5, "Stormwater management measures shall only be required for water quality control if an additional one-quarter acre of impervious surface is being proposed on a development site". Water quality control is required for this project.

Water quality compliance has been provided. Stormwater discharges are by overland flow through existing grasslands, woodlands, and meadows. The existing surrounding vegetative filter strips will provide the required water quality without the need for additional measures.

9.0 GROUNDWATER RECHARGE ANALYSIS

The New Jersey Groundwater Recharge Spreadsheet (NJGRS) has been utilized to show the site will maintain 100% of the pre-developed site's annual groundwater recharge (See Appendices for NJGRS). The calculation and design results are summarized in Table below:

SUMMARY OF GROUNDWATER RECHARGE

Basin ID	Pre-Developed Annual Recharge (cu-ft)	Post-Developed Annual Recharge (cu-ft)	Post-Developed Annual Recharge Deficit (cu-ft)	Post-Developed Annual Recharge Volume (cu-ft)	Post-Developed Annual Recharge Surplus Rate (%)
Rainwater Garden	499,921	453,883	3,953	7,431	188%

The above table demonstrates that groundwater recharge will be maintained.

10.0 LOW IMPACT DEVELOPMENT ANALYSIS

The New Jersey Department of Environmental Protection (NJDEP) Nonstructural Strategies Points System (NSPS) has been considered with the Low Impact Development (LID) analysis. The LID spreadsheet provides an evaluation to quantify that low impact development measures have been implemented. It should be noted that the low impact spreadsheet is not an enforceable regulation as determined by the Court. However, the spreadsheet is a tool that supports the written analysis of the LID. The Low Impact Development Points worksheet is provided in the Appendices. For the purposes of the LID analysis, the spreadsheet has utilized the Soil Survey mapped Hydraulic Soil Group. In existing conditions, the site scored 499 LID points. In proposed conditions, the area scores 679 LID points. The proposed development has been quantified to be qualified as low impact development supporting the regulatory evaluation. No additional low impact development measures are necessary for the proposed improvements.

11.0 SOIL EROSION AND SEDIMENT CONTROL

The project will comply with the design and performance standards for erosion control established under the Soil Erosion and Sediment Control Act, N.J.S.A. 4:24-39 et seq. and implementing rules. Anticipated BMP's to be included in the Soil Erosion and Sediment Control Plan will include, structural and non-structural soil erosion BMP's to be implemented during construction, including: minimizing the area of disturbance, placement of silt fencing around the limit of disturbance, temporary soil stockpiles surrounded with silt fencing, temporary vegetative cover standards, inlet filter covers over existing and proposed stormwater inlets, haybales placed on the existing flowing path, soil restoration and an anti-tracking stabilized

construction entrance. The project will be submitted to the Soil Conservation District for certification of a Soil Erosion and Sediment Control Plan prior to commencement of construction.

The Soil Conservation regulations do not recognize infiltration for the 2-yr, 10-yr and 25-yr frequency storm events. The failure of the infiltrating function of the basin has been considered. In this SCD scenario, the infiltration basin is in a failure scenario. The starting water surface elevation has been modeled at the lowest outlet, with no infiltration occurring. The failure scenarios for the SCD events are summarized below:

SUMMARY OF PEAK FLOW

	Existing	Proposed
WQ	0 c.f.s.	0.8 c.f.s.
2 YR.	0.7 c.f.s.	1.4 c.f.s.
10 YR.	3.0 c.f.s.	2.9 c.f.s.
25 YR.	5.4 c.f.s.	4.3 c.f.s.
100 YR.	12.0 c.f.s.	8.5 c.f.s.

Based upon SCD analysis, the proposed peak flow rates have not been increased for the proposed improvement.

12.0 CONCLUSION

As described above, the project is designed to provide runoff quantity reductions, water quality measures, low impact development, soil restoration and groundwater recharge as required by the applicable stormwater regulations.

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APPENDIX A
EXISTING AND PROPOSED STORMWATER CALCULATIONS

Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Diam/Width (inches)	Height (inches)	Inside-Fill (inches)
1	43P	145.58	145.00	60.0	0.0097	0.013	12.0	0.0	0.0

Notes Listing (all nodes)

Line#	Node Number	Notes
1	Project	Predevelopment and Post Development Drainage Analysis
2		MTSPX20052 Owens Dog Park

Time span=0.00-100.00 hrs, dt=0.10 hrs, 1001 points
 Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: E-100 PERV	Runoff Area=2.270 ac 0.00% Impervious Runoff Depth=0.45" Flow Length=610' Tc=16.5 min CN=60 Runoff=0.40 cfs 0.085 af
Subcatchment2S: E-200 PERV	Runoff Area=3.720 ac 0.00% Impervious Runoff Depth=0.34" Flow Length=373' Tc=31.5 min CN=57 Runoff=0.30 cfs 0.107 af
Subcatchment3S: E-300 PERV	Runoff Area=1.590 ac 0.00% Impervious Runoff Depth=0.07" Flow Length=300' Slope=0.0100 '/' Tc=40.2 min CN=46 Runoff=0.01 cfs 0.009 af
Subcatchment4S: E-400 PERV	Runoff Area=3.460 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=150' Slope=0.0250 '/' Tc=15.9 min CN=36 Runoff=0.00 cfs 0.000 af
Subcatchment45S: P-100 PERV	Runoff Area=1.760 ac 0.00% Impervious Runoff Depth=0.49" Flow Length=610' Tc=16.5 min CN=61 Runoff=0.35 cfs 0.071 af
Subcatchment46S: P-200 PERV	Runoff Area=3.190 ac 0.00% Impervious Runoff Depth=0.34" Flow Length=373' Tc=31.5 min CN=57 Runoff=0.26 cfs 0.091 af
Subcatchment47S: P-300 PERV	Runoff Area=1.550 ac 0.00% Impervious Runoff Depth=0.07" Flow Length=300' Slope=0.0100 '/' Tc=40.2 min CN=46 Runoff=0.01 cfs 0.009 af
Subcatchment48S: P-400 PERV	Runoff Area=3.400 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=150' Slope=0.0250 '/' Tc=15.9 min CN=36 Runoff=0.00 cfs 0.000 af
Subcatchment49S: P-100 IMP	Runoff Area=0.510 ac 100.00% Impervious Runoff Depth=3.07" Flow Length=610' Tc=16.5 min CN=98 Runoff=0.86 cfs 0.130 af
Subcatchment50S: P-200 IMP	Runoff Area=0.530 ac 100.00% Impervious Runoff Depth=3.07" Flow Length=373' Tc=31.5 min CN=98 Runoff=0.65 cfs 0.135 af
Subcatchment51S: P-300 IMP	Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=3.07" Flow Length=300' Slope=0.0100 '/' Tc=40.2 min CN=98 Runoff=0.04 cfs 0.010 af
Subcatchment52S: P-400 IMP	Runoff Area=0.060 ac 100.00% Impervious Runoff Depth=3.07" Flow Length=150' Slope=0.0250 '/' Tc=15.9 min CN=98 Runoff=0.10 cfs 0.015 af

Reach 6R: E-100	Inflow=0.40 cfs 0.085 af Outflow=0.40 cfs 0.085 af
Reach 7R: E-200	Inflow=0.30 cfs 0.107 af Outflow=0.30 cfs 0.107 af
Reach 8R: E-300	Inflow=0.01 cfs 0.009 af Outflow=0.01 cfs 0.009 af
Reach 22R: E-400	Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Reach 23R: E-POA "A"	Inflow=0.66 cfs 0.191 af Outflow=0.66 cfs 0.191 af
Reach 25R: E-POA "B"	Inflow=0.01 cfs 0.009 af Outflow=0.01 cfs 0.009 af
Reach 26R: E-POA	Inflow=0.66 cfs 0.201 af Outflow=0.66 cfs 0.201 af
Reach 38R: P-400	Inflow=0.10 cfs 0.015 af Outflow=0.10 cfs 0.015 af
Reach 39R: P-POA "A"	Inflow=1.25 cfs 0.412 af Outflow=1.25 cfs 0.412 af
Reach 40R: P-POA "B"	Inflow=0.10 cfs 0.015 af Outflow=0.10 cfs 0.015 af
Reach 41R: P-POA	Inflow=1.35 cfs 0.427 af Outflow=1.35 cfs 0.427 af
Reach 46R: P-100	Inflow=1.17 cfs 0.202 af Outflow=1.17 cfs 0.202 af
Pond 43P: P-200 Station 1450 Culvert	Peak Elev=147.53' Storage=5.339 cf Inflow=0.87 cfs 0.227 af Discarded=0.00 cfs 0.006 af Primary=0.14 cfs 0.210 af Outflow=0.14 cfs 0.216 af
Pond 44P: P-300 Rainwater Garden	Peak Elev=147.01' Storage=33 cf Inflow=0.04 cfs 0.019 af Discarded=0.04 cfs 0.019 af Primary=0.00 cfs 0.000 af Outflow=0.04 cfs 0.019 af
Total Runoff Area = 22.080 ac Runoff Volume = 0.664 af Average Runoff Depth = 0.36" 94.84% Pervious = 20.940 ac 5.16% Impervious = 1.140 ac	

Summary for Subcatchment 1S: E-100 PERV

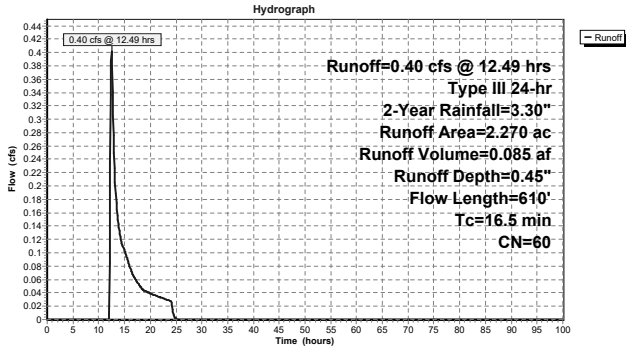
Runoff = 0.40 cfs @ 12.49 hrs, Volume= 0.085 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
0.420	55	Woods, Good, HSG B
1.850	61	>75% Grass cover, Good, HSG B
2.270	60	Weighted Average
2.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 1S: E-100 PERV



Hydrograph for Subcatchment 1S: E-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	0.45	0.00
1.00	0.03	0.00	0.00	52.00	3.30	0.45	0.00
2.00	0.07	0.00	0.00	53.00	3.30	0.45	0.00
3.00	0.10	0.00	0.00	54.00	3.30	0.45	0.00
4.00	0.14	0.00	0.00	55.00	3.30	0.45	0.00
5.00	0.19	0.00	0.00	56.00	3.30	0.45	0.00
6.00	0.24	0.00	0.00	57.00	3.30	0.45	0.00
7.00	0.30	0.00	0.00	58.00	3.30	0.45	0.00
8.00	0.38	0.00	0.00	59.00	3.30	0.45	0.00
9.00	0.48	0.00	0.00	60.00	3.30	0.45	0.00
10.00	0.62	0.00	0.00	61.00	3.30	0.45	0.00
11.00	0.83	0.00	0.00	62.00	3.30	0.45	0.00
12.00	1.65	0.01	0.01	63.00	3.30	0.45	0.00
13.00	2.47	0.17	0.25	64.00	3.30	0.45	0.00
14.00	2.68	0.23	0.13	65.00	3.30	0.45	0.00
15.00	2.82	0.27	0.10	66.00	3.30	0.45	0.00
16.00	2.92	0.31	0.08	67.00	3.30	0.45	0.00
17.00	3.00	0.33	0.06	68.00	3.30	0.45	0.00
18.00	3.06	0.36	0.05	69.00	3.30	0.45	0.00
19.00	3.11	0.37	0.04	70.00	3.30	0.45	0.00
20.00	3.16	0.39	0.04	71.00	3.30	0.45	0.00
21.00	3.20	0.41	0.04	72.00	3.30	0.45	0.00
22.00	3.24	0.42	0.03	73.00	3.30	0.45	0.00
23.00	3.27	0.44	0.03	74.00	3.30	0.45	0.00
24.00	3.30	0.45	0.03	75.00	3.30	0.45	0.00
25.00	3.30	0.45	0.00	76.00	3.30	0.45	0.00
26.00	3.30	0.45	0.00	77.00	3.30	0.45	0.00
27.00	3.30	0.45	0.00	78.00	3.30	0.45	0.00
28.00	3.30	0.45	0.00	79.00	3.30	0.45	0.00
29.00	3.30	0.45	0.00	80.00	3.30	0.45	0.00
30.00	3.30	0.45	0.00	81.00	3.30	0.45	0.00
31.00	3.30	0.45	0.00	82.00	3.30	0.45	0.00
32.00	3.30	0.45	0.00	83.00	3.30	0.45	0.00
33.00	3.30	0.45	0.00	84.00	3.30	0.45	0.00
34.00	3.30	0.45	0.00	85.00	3.30	0.45	0.00
35.00	3.30	0.45	0.00	86.00	3.30	0.45	0.00
36.00	3.30	0.45	0.00	87.00	3.30	0.45	0.00
37.00	3.30	0.45	0.00	88.00	3.30	0.45	0.00
38.00	3.30	0.45	0.00	89.00	3.30	0.45	0.00
39.00	3.30	0.45	0.00	90.00	3.30	0.45	0.00
40.00	3.30	0.45	0.00	91.00	3.30	0.45	0.00
41.00	3.30	0.45	0.00	92.00	3.30	0.45	0.00
42.00	3.30	0.45	0.00	93.00	3.30	0.45	0.00
43.00	3.30	0.45	0.00	94.00	3.30	0.45	0.00
44.00	3.30	0.45	0.00	95.00	3.30	0.45	0.00
45.00	3.30	0.45	0.00	96.00	3.30	0.45	0.00
46.00	3.30	0.45	0.00	97.00	3.30	0.45	0.00
47.00	3.30	0.45	0.00	98.00	3.30	0.45	0.00
48.00	3.30	0.45	0.00	99.00	3.30	0.45	0.00
49.00	3.30	0.45	0.00	100.00	3.30	0.45	0.00
50.00	3.30	0.45	0.00				

Summary for Subcatchment 2S: E-200 PERV

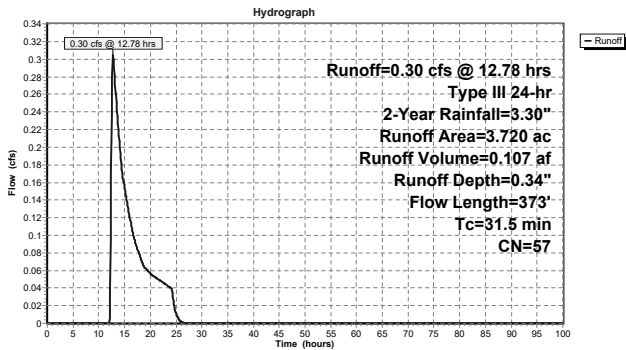
Runoff = 0.30 cfs @ 12.78 hrs, Volume= 0.107 af, Depth= 0.34"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
2.400	55	Woods, Good, HSG B
0.010	30	Woods, Good, HSG A
1.310	61	>75% Grass cover, Good, HSG B
3.720	57	Weighted Average
3.720		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 2S: E-200 PERV



Hydrograph for Subcatchment 2S: E-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	0.34	0.00
1.00	0.03	0.00	0.00	52.00	3.30	0.34	0.00
2.00	0.07	0.00	0.00	53.00	3.30	0.34	0.00
3.00	0.10	0.00	0.00	54.00	3.30	0.34	0.00
4.00	0.14	0.00	0.00	55.00	3.30	0.34	0.00
5.00	0.19	0.00	0.00	56.00	3.30	0.34	0.00
6.00	0.24	0.00	0.00	57.00	3.30	0.34	0.00
7.00	0.30	0.00	0.00	58.00	3.30	0.34	0.00
8.00	0.38	0.00	0.00	59.00	3.30	0.34	0.00
9.00	0.48	0.00	0.00	60.00	3.30	0.34	0.00
10.00	0.62	0.00	0.00	61.00	3.30	0.34	0.00
11.00	0.83	0.00	0.00	62.00	3.30	0.34	0.00
12.00	1.65	0.00	0.00	63.00	3.30	0.34	0.00
13.00	2.47	0.11	0.29	64.00	3.30	0.34	0.00
14.00	2.68	0.16	0.21	65.00	3.30	0.34	0.00
15.00	2.82	0.19	0.15	66.00	3.30	0.34	0.00
16.00	2.92	0.22	0.12	67.00	3.30	0.34	0.00
17.00	3.00	0.25	0.09	68.00	3.30	0.34	0.00
18.00	3.06	0.27	0.08	69.00	3.30	0.34	0.00
19.00	3.11	0.28	0.06	70.00	3.30	0.34	0.00
20.00	3.16	0.30	0.06	71.00	3.30	0.34	0.00
21.00	3.20	0.31	0.05	72.00	3.30	0.34	0.00
22.00	3.24	0.32	0.05	73.00	3.30	0.34	0.00
23.00	3.27	0.33	0.04	74.00	3.30	0.34	0.00
24.00	3.30	0.34	0.04	75.00	3.30	0.34	0.00
25.00	3.30	0.34	0.01	76.00	3.30	0.34	0.00
26.00	3.30	0.34	0.00	77.00	3.30	0.34	0.00
27.00	3.30	0.34	0.00	78.00	3.30	0.34	0.00
28.00	3.30	0.34	0.00	79.00	3.30	0.34	0.00
29.00	3.30	0.34	0.00	80.00	3.30	0.34	0.00
30.00	3.30	0.34	0.00	81.00	3.30	0.34	0.00
31.00	3.30	0.34	0.00	82.00	3.30	0.34	0.00
32.00	3.30	0.34	0.00	83.00	3.30	0.34	0.00
33.00	3.30	0.34	0.00	84.00	3.30	0.34	0.00
34.00	3.30	0.34	0.00	85.00	3.30	0.34	0.00
35.00	3.30	0.34	0.00	86.00	3.30	0.34	0.00
36.00	3.30	0.34	0.00	87.00	3.30	0.34	0.00
37.00	3.30	0.34	0.00	88.00	3.30	0.34	0.00
38.00	3.30	0.34	0.00	89.00	3.30	0.34	0.00
39.00	3.30	0.34	0.00	90.00	3.30	0.34	0.00
40.00	3.30	0.34	0.00	91.00	3.30	0.34	0.00
41.00	3.30	0.34	0.00	92.00	3.30	0.34	0.00
42.00	3.30	0.34	0.00	93.00	3.30	0.34	0.00
43.00	3.30	0.34	0.00	94.00	3.30	0.34	0.00
44.00	3.30	0.34	0.00	95.00	3.30	0.34	0.00
45.00	3.30	0.34	0.00	96.00	3.30	0.34	0.00
46.00	3.30	0.34	0.00	97.00	3.30	0.34	0.00
47.00	3.30	0.34	0.00	98.00	3.30	0.34	0.00
48.00	3.30	0.34	0.00	99.00	3.30	0.34	0.00
49.00	3.30	0.34	0.00	100.00	3.30	0.34	0.00
50.00	3.30	0.34	0.00				

Summary for Subcatchment 3S: E-300 PERV

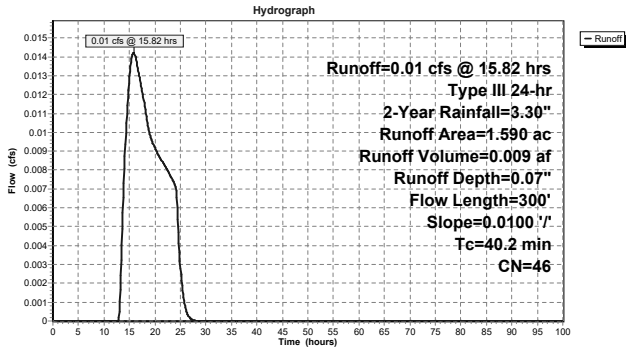
Runoff = 0.01 cfs @ 15.82 hrs, Volume= 0.009 af, Depth= 0.07"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	Pasture/grassland/range, Good, HSG B
0.940	39	Pasture/grassland/range, Good, HSG A
1.590	46	Weighted Average
1.590		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 3S: E-300 PERV



Hydrograph for Subcatchment 3S: E-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	0.07	0.00
1.00	0.03	0.00	0.00	52.00	3.30	0.07	0.00
2.00	0.07	0.00	0.00	53.00	3.30	0.07	0.00
3.00	0.10	0.00	0.00	54.00	3.30	0.07	0.00
4.00	0.14	0.00	0.00	55.00	3.30	0.07	0.00
5.00	0.19	0.00	0.00	56.00	3.30	0.07	0.00
6.00	0.24	0.00	0.00	57.00	3.30	0.07	0.00
7.00	0.30	0.00	0.00	58.00	3.30	0.07	0.00
8.00	0.38	0.00	0.00	59.00	3.30	0.07	0.00
9.00	0.48	0.00	0.00	60.00	3.30	0.07	0.00
10.00	0.62	0.00	0.00	61.00	3.30	0.07	0.00
11.00	0.83	0.00	0.00	62.00	3.30	0.07	0.00
12.00	1.65	0.00	0.00	63.00	3.30	0.07	0.00
13.00	2.47	0.00	0.00	64.00	3.30	0.07	0.00
14.00	2.68	0.01	0.01	65.00	3.30	0.07	0.00
15.00	2.82	0.02	0.01	66.00	3.30	0.07	0.00
16.00	2.92	0.03	0.01	67.00	3.30	0.07	0.00
17.00	3.00	0.03	0.01	68.00	3.30	0.07	0.00
18.00	3.06	0.04	0.01	69.00	3.30	0.07	0.00
19.00	3.11	0.05	0.01	70.00	3.30	0.07	0.00
20.00	3.16	0.05	0.01	71.00	3.30	0.07	0.00
21.00	3.20	0.06	0.01	72.00	3.30	0.07	0.00
22.00	3.24	0.06	0.01	73.00	3.30	0.07	0.00
23.00	3.27	0.07	0.01	74.00	3.30	0.07	0.00
24.00	3.30	0.07	0.01	75.00	3.30	0.07	0.00
25.00	3.30	0.07	0.00	76.00	3.30	0.07	0.00
26.00	3.30	0.07	0.00	77.00	3.30	0.07	0.00
27.00	3.30	0.07	0.00	78.00	3.30	0.07	0.00
28.00	3.30	0.07	0.00	79.00	3.30	0.07	0.00
29.00	3.30	0.07	0.00	80.00	3.30	0.07	0.00
30.00	3.30	0.07	0.00	81.00	3.30	0.07	0.00
31.00	3.30	0.07	0.00	82.00	3.30	0.07	0.00
32.00	3.30	0.07	0.00	83.00	3.30	0.07	0.00
33.00	3.30	0.07	0.00	84.00	3.30	0.07	0.00
34.00	3.30	0.07	0.00	85.00	3.30	0.07	0.00
35.00	3.30	0.07	0.00	86.00	3.30	0.07	0.00
36.00	3.30	0.07	0.00	87.00	3.30	0.07	0.00
37.00	3.30	0.07	0.00	88.00	3.30	0.07	0.00
38.00	3.30	0.07	0.00	89.00	3.30	0.07	0.00
39.00	3.30	0.07	0.00	90.00	3.30	0.07	0.00
40.00	3.30	0.07	0.00	91.00	3.30	0.07	0.00
41.00	3.30	0.07	0.00	92.00	3.30	0.07	0.00
42.00	3.30	0.07	0.00	93.00	3.30	0.07	0.00
43.00	3.30	0.07	0.00	94.00	3.30	0.07	0.00
44.00	3.30	0.07	0.00	95.00	3.30	0.07	0.00
45.00	3.30	0.07	0.00	96.00	3.30	0.07	0.00
46.00	3.30	0.07	0.00	97.00	3.30	0.07	0.00
47.00	3.30	0.07	0.00	98.00	3.30	0.07	0.00
48.00	3.30	0.07	0.00	99.00	3.30	0.07	0.00
49.00	3.30	0.07	0.00	100.00	3.30	0.07	0.00
50.00	3.30	0.07	0.00				

Summary for Subcatchment 4S: E-400 PERV

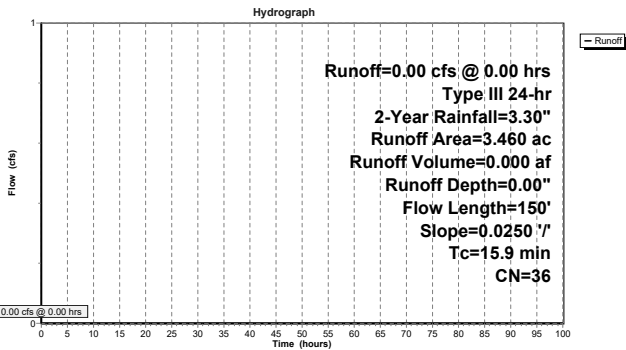
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.980	39	Pasture/grassland/range, Good, HSG A
3.460	36	Weighted Average
3.460		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 4S: E-400 PERV



Hydrograph for Subcatchment 4S: E-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	0.00	0.00
1.00	0.03	0.00	0.00	52.00	3.30	0.00	0.00
2.00	0.07	0.00	0.00	53.00	3.30	0.00	0.00
3.00	0.10	0.00	0.00	54.00	3.30	0.00	0.00
4.00	0.14	0.00	0.00	55.00	3.30	0.00	0.00
5.00	0.19	0.00	0.00	56.00	3.30	0.00	0.00
6.00	0.24	0.00	0.00	57.00	3.30	0.00	0.00
7.00	0.30	0.00	0.00	58.00	3.30	0.00	0.00
8.00	0.38	0.00	0.00	59.00	3.30	0.00	0.00
9.00	0.48	0.00	0.00	60.00	3.30	0.00	0.00
10.00	0.62	0.00	0.00	61.00	3.30	0.00	0.00
11.00	0.83	0.00	0.00	62.00	3.30	0.00	0.00
12.00	1.65	0.00	0.00	63.00	3.30	0.00	0.00
13.00	2.47	0.00	0.00	64.00	3.30	0.00	0.00
14.00	2.68	0.00	0.00	65.00	3.30	0.00	0.00
15.00	2.82	0.00	0.00	66.00	3.30	0.00	0.00
16.00	2.92	0.00	0.00	67.00	3.30	0.00	0.00
17.00	3.00	0.00	0.00	68.00	3.30	0.00	0.00
18.00	3.06	0.00	0.00	69.00	3.30	0.00	0.00
19.00	3.11	0.00	0.00	70.00	3.30	0.00	0.00
20.00	3.16	0.00	0.00	71.00	3.30	0.00	0.00
21.00	3.20	0.00	0.00	72.00	3.30	0.00	0.00
22.00	3.24	0.00	0.00	73.00	3.30	0.00	0.00
23.00	3.27	0.00	0.00	74.00	3.30	0.00	0.00
24.00	3.30	0.00	0.00	75.00	3.30	0.00	0.00
25.00	3.30	0.00	0.00	76.00	3.30	0.00	0.00
26.00	3.30	0.00	0.00	77.00	3.30	0.00	0.00
27.00	3.30	0.00	0.00	78.00	3.30	0.00	0.00
28.00	3.30	0.00	0.00	79.00	3.30	0.00	0.00
29.00	3.30	0.00	0.00	80.00	3.30	0.00	0.00
30.00	3.30	0.00	0.00	81.00	3.30	0.00	0.00
31.00	3.30	0.00	0.00	82.00	3.30	0.00	0.00
32.00	3.30	0.00	0.00	83.00	3.30	0.00	0.00
33.00	3.30	0.00	0.00	84.00	3.30	0.00	0.00
34.00	3.30	0.00	0.00	85.00	3.30	0.00	0.00
35.00	3.30	0.00	0.00	86.00	3.30	0.00	0.00
36.00	3.30	0.00	0.00	87.00	3.30	0.00	0.00
37.00	3.30	0.00	0.00	88.00	3.30	0.00	0.00
38.00	3.30	0.00	0.00	89.00	3.30	0.00	0.00
39.00	3.30	0.00	0.00	90.00	3.30	0.00	0.00
40.00	3.30	0.00	0.00	91.00	3.30	0.00	0.00
41.00	3.30	0.00	0.00	92.00	3.30	0.00	0.00
42.00	3.30	0.00	0.00	93.00	3.30	0.00	0.00
43.00	3.30	0.00	0.00	94.00	3.30	0.00	0.00
44.00	3.30	0.00	0.00	95.00	3.30	0.00	0.00
45.00	3.30	0.00	0.00	96.00	3.30	0.00	0.00
46.00	3.30	0.00	0.00	97.00	3.30	0.00	0.00
47.00	3.30	0.00	0.00	98.00	3.30	0.00	0.00
48.00	3.30	0.00	0.00	99.00	3.30	0.00	0.00
49.00	3.30	0.00	0.00	100.00	3.30	0.00	0.00
50.00	3.30	0.00	0.00				

Summary for Subcatchment 45S: P-100 PERV

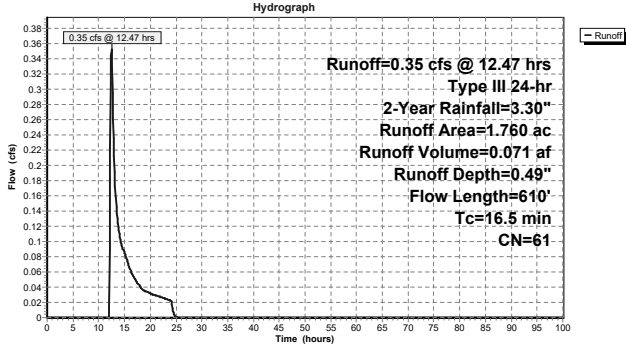
Runoff = 0.35 cfs @ 12.47 hrs, Volume= 0.071 af, Depth= 0.49"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
0.130	55	Woods, Good, HSG B
1.630	61	>75% Grass cover, Good, HSG B
1.760	61	Weighted Average
1.760		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 45S: P-100 PERV



Hydrograph for Subcatchment 45S: P-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	0.49	0.00
1.00	0.03	0.00	0.00	52.00	3.30	0.49	0.00
2.00	0.07	0.00	0.00	53.00	3.30	0.49	0.00
3.00	0.10	0.00	0.00	54.00	3.30	0.49	0.00
4.00	0.14	0.00	0.00	55.00	3.30	0.49	0.00
5.00	0.19	0.00	0.00	56.00	3.30	0.49	0.00
6.00	0.24	0.00	0.00	57.00	3.30	0.49	0.00
7.00	0.30	0.00	0.00	58.00	3.30	0.49	0.00
8.00	0.38	0.00	0.00	59.00	3.30	0.49	0.00
9.00	0.48	0.00	0.00	60.00	3.30	0.49	0.00
10.00	0.62	0.00	0.00	61.00	3.30	0.49	0.00
11.00	0.83	0.00	0.00	62.00	3.30	0.49	0.00
12.00	1.65	0.02	0.01	63.00	3.30	0.49	0.00
13.00	2.47	0.19	0.21	64.00	3.30	0.49	0.00
14.00	2.68	0.25	0.11	65.00	3.30	0.49	0.00
15.00	2.82	0.30	0.08	66.00	3.30	0.49	0.00
16.00	2.92	0.34	0.07	67.00	3.30	0.49	0.00
17.00	3.00	0.37	0.05	68.00	3.30	0.49	0.00
18.00	3.06	0.39	0.04	69.00	3.30	0.49	0.00
19.00	3.11	0.41	0.03	70.00	3.30	0.49	0.00
20.00	3.16	0.43	0.03	71.00	3.30	0.49	0.00
21.00	3.20	0.44	0.03	72.00	3.30	0.49	0.00
22.00	3.24	0.46	0.03	73.00	3.30	0.49	0.00
23.00	3.27	0.47	0.02	74.00	3.30	0.49	0.00
24.00	3.30	0.49	0.02	75.00	3.30	0.49	0.00
25.00	3.30	0.49	0.00	76.00	3.30	0.49	0.00
26.00	3.30	0.49	0.00	77.00	3.30	0.49	0.00
27.00	3.30	0.49	0.00	78.00	3.30	0.49	0.00
28.00	3.30	0.49	0.00	79.00	3.30	0.49	0.00
29.00	3.30	0.49	0.00	80.00	3.30	0.49	0.00
30.00	3.30	0.49	0.00	81.00	3.30	0.49	0.00
31.00	3.30	0.49	0.00	82.00	3.30	0.49	0.00
32.00	3.30	0.49	0.00	83.00	3.30	0.49	0.00
33.00	3.30	0.49	0.00	84.00	3.30	0.49	0.00
34.00	3.30	0.49	0.00	85.00	3.30	0.49	0.00
35.00	3.30	0.49	0.00	86.00	3.30	0.49	0.00
36.00	3.30	0.49	0.00	87.00	3.30	0.49	0.00
37.00	3.30	0.49	0.00	88.00	3.30	0.49	0.00
38.00	3.30	0.49	0.00	89.00	3.30	0.49	0.00
39.00	3.30	0.49	0.00	90.00	3.30	0.49	0.00
40.00	3.30	0.49	0.00	91.00	3.30	0.49	0.00
41.00	3.30	0.49	0.00	92.00	3.30	0.49	0.00
42.00	3.30	0.49	0.00	93.00	3.30	0.49	0.00
43.00	3.30	0.49	0.00	94.00	3.30	0.49	0.00
44.00	3.30	0.49	0.00	95.00	3.30	0.49	0.00
45.00	3.30	0.49	0.00	96.00	3.30	0.49	0.00
46.00	3.30	0.49	0.00	97.00	3.30	0.49	0.00
47.00	3.30	0.49	0.00	98.00	3.30	0.49	0.00
48.00	3.30	0.49	0.00	99.00	3.30	0.49	0.00
49.00	3.30	0.49	0.00	100.00	3.30	0.49	0.00
50.00	3.30	0.49	0.00				

Summary for Subcatchment 46S: P-200 PERV

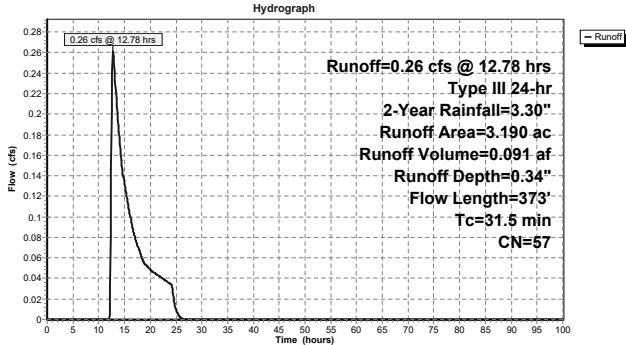
Runoff = 0.26 cfs @ 12.78 hrs, Volume= 0.091 af, Depth= 0.34"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
2.070	55	Woods, Good, HSG B
0.000	30	Woods, Good, HSG A
1.110	61	>75% Grass cover, Good, HSG B
0.010	39	>75% Grass cover, Good, HSG A
3.190	57	Weighted Average
3.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 46S: P-200 PERV



Hydrograph for Subcatchment 46S: P-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	0.34	0.00
1.00	0.03	0.00	0.00	52.00	3.30	0.34	0.00
2.00	0.07	0.00	0.00	53.00	3.30	0.34	0.00
3.00	0.10	0.00	0.00	54.00	3.30	0.34	0.00
4.00	0.14	0.00	0.00	55.00	3.30	0.34	0.00
5.00	0.19	0.00	0.00	56.00	3.30	0.34	0.00
6.00	0.24	0.00	0.00	57.00	3.30	0.34	0.00
7.00	0.30	0.00	0.00	58.00	3.30	0.34	0.00
8.00	0.38	0.00	0.00	59.00	3.30	0.34	0.00
9.00	0.48	0.00	0.00	60.00	3.30	0.34	0.00
10.00	0.62	0.00	0.00	61.00	3.30	0.34	0.00
11.00	0.83	0.00	0.00	62.00	3.30	0.34	0.00
12.00	1.65	0.00	0.00	63.00	3.30	0.34	0.00
13.00	2.47	0.11	0.25	64.00	3.30	0.34	0.00
14.00	2.68	0.16	0.18	65.00	3.30	0.34	0.00
15.00	2.82	0.19	0.13	66.00	3.30	0.34	0.00
16.00	2.92	0.22	0.10	67.00	3.30	0.34	0.00
17.00	3.00	0.25	0.08	68.00	3.30	0.34	0.00
18.00	3.06	0.27	0.06	69.00	3.30	0.34	0.00
19.00	3.11	0.28	0.05	70.00	3.30	0.34	0.00
20.00	3.16	0.30	0.05	71.00	3.30	0.34	0.00
21.00	3.20	0.31	0.04	72.00	3.30	0.34	0.00
22.00	3.24	0.32	0.04	73.00	3.30	0.34	0.00
23.00	3.27	0.33	0.04	74.00	3.30	0.34	0.00
24.00	3.30	0.34	0.03	75.00	3.30	0.34	0.00
25.00	3.30	0.34	0.01	76.00	3.30	0.34	0.00
26.00	3.30	0.34	0.00	77.00	3.30	0.34	0.00
27.00	3.30	0.34	0.00	78.00	3.30	0.34	0.00
28.00	3.30	0.34	0.00	79.00	3.30	0.34	0.00
29.00	3.30	0.34	0.00	80.00	3.30	0.34	0.00
30.00	3.30	0.34	0.00	81.00	3.30	0.34	0.00
31.00	3.30	0.34	0.00	82.00	3.30	0.34	0.00
32.00	3.30	0.34	0.00	83.00	3.30	0.34	0.00
33.00	3.30	0.34	0.00	84.00	3.30	0.34	0.00
34.00	3.30	0.34	0.00	85.00	3.30	0.34	0.00
35.00	3.30	0.34	0.00	86.00	3.30	0.34	0.00
36.00	3.30	0.34	0.00	87.00	3.30	0.34	0.00
37.00	3.30	0.34	0.00	88.00	3.30	0.34	0.00
38.00	3.30	0.34	0.00	89.00	3.30	0.34	0.00
39.00	3.30	0.34	0.00	90.00	3.30	0.34	0.00
40.00	3.30	0.34	0.00	91.00	3.30	0.34	0.00
41.00	3.30	0.34	0.00	92.00	3.30	0.34	0.00
42.00	3.30	0.34	0.00	93.00	3.30	0.34	0.00
43.00	3.30	0.34	0.00	94.00	3.30	0.34	0.00
44.00	3.30	0.34	0.00	95.00	3.30	0.34	0.00
45.00	3.30	0.34	0.00	96.00	3.30	0.34	0.00
46.00	3.30	0.34	0.00	97.00	3.30	0.34	0.00
47.00	3.30	0.34	0.00	98.00	3.30	0.34	0.00
48.00	3.30	0.34	0.00	99.00	3.30	0.34	0.00
49.00	3.30	0.34	0.00	100.00	3.30	0.34	0.00
50.00	3.30	0.34	0.00				

Summary for Subcatchment 47S: P-300 PERV

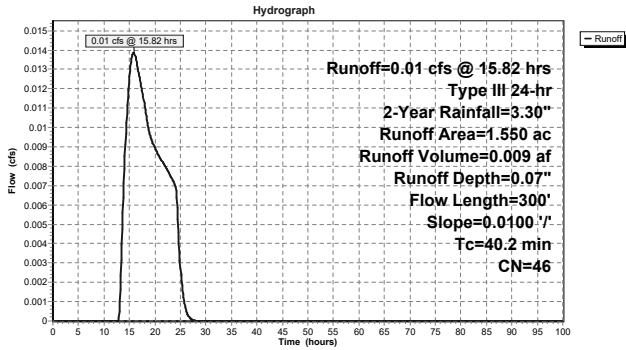
Runoff = 0.01 cfs @ 15.82 hrs, Volume= 0.009 af, Depth= 0.07"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	>75% Grass cover, Good, HSG B
0.900	39	>75% Grass cover, Good, HSG A
1.550	46	Weighted Average
1.550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 47S: P-300 PERV



Hydrograph for Subcatchment 47S: P-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	0.07	0.00
1.00	0.03	0.00	0.00	52.00	3.30	0.07	0.00
2.00	0.07	0.00	0.00	53.00	3.30	0.07	0.00
3.00	0.10	0.00	0.00	54.00	3.30	0.07	0.00
4.00	0.14	0.00	0.00	55.00	3.30	0.07	0.00
5.00	0.19	0.00	0.00	56.00	3.30	0.07	0.00
6.00	0.24	0.00	0.00	57.00	3.30	0.07	0.00
7.00	0.30	0.00	0.00	58.00	3.30	0.07	0.00
8.00	0.38	0.00	0.00	59.00	3.30	0.07	0.00
9.00	0.48	0.00	0.00	60.00	3.30	0.07	0.00
10.00	0.62	0.00	0.00	61.00	3.30	0.07	0.00
11.00	0.83	0.00	0.00	62.00	3.30	0.07	0.00
12.00	1.65	0.00	0.00	63.00	3.30	0.07	0.00
13.00	2.47	0.00	0.00	64.00	3.30	0.07	0.00
14.00	2.68	0.01	0.01	65.00	3.30	0.07	0.00
15.00	2.82	0.02	0.01	66.00	3.30	0.07	0.00
16.00	2.92	0.03	0.01	67.00	3.30	0.07	0.00
17.00	3.00	0.03	0.01	68.00	3.30	0.07	0.00
18.00	3.06	0.04	0.01	69.00	3.30	0.07	0.00
19.00	3.11	0.05	0.01	70.00	3.30	0.07	0.00
20.00	3.16	0.05	0.01	71.00	3.30	0.07	0.00
21.00	3.20	0.06	0.01	72.00	3.30	0.07	0.00
22.00	3.24	0.06	0.01	73.00	3.30	0.07	0.00
23.00	3.27	0.07	0.01	74.00	3.30	0.07	0.00
24.00	3.30	0.07	0.01	75.00	3.30	0.07	0.00
25.00	3.30	0.07	0.00	76.00	3.30	0.07	0.00
26.00	3.30	0.07	0.00	77.00	3.30	0.07	0.00
27.00	3.30	0.07	0.00	78.00	3.30	0.07	0.00
28.00	3.30	0.07	0.00	79.00	3.30	0.07	0.00
29.00	3.30	0.07	0.00	80.00	3.30	0.07	0.00
30.00	3.30	0.07	0.00	81.00	3.30	0.07	0.00
31.00	3.30	0.07	0.00	82.00	3.30	0.07	0.00
32.00	3.30	0.07	0.00	83.00	3.30	0.07	0.00
33.00	3.30	0.07	0.00	84.00	3.30	0.07	0.00
34.00	3.30	0.07	0.00	85.00	3.30	0.07	0.00
35.00	3.30	0.07	0.00	86.00	3.30	0.07	0.00
36.00	3.30	0.07	0.00	87.00	3.30	0.07	0.00
37.00	3.30	0.07	0.00	88.00	3.30	0.07	0.00
38.00	3.30	0.07	0.00	89.00	3.30	0.07	0.00
39.00	3.30	0.07	0.00	90.00	3.30	0.07	0.00
40.00	3.30	0.07	0.00	91.00	3.30	0.07	0.00
41.00	3.30	0.07	0.00	92.00	3.30	0.07	0.00
42.00	3.30	0.07	0.00	93.00	3.30	0.07	0.00
43.00	3.30	0.07	0.00	94.00	3.30	0.07	0.00
44.00	3.30	0.07	0.00	95.00	3.30	0.07	0.00
45.00	3.30	0.07	0.00	96.00	3.30	0.07	0.00
46.00	3.30	0.07	0.00	97.00	3.30	0.07	0.00
47.00	3.30	0.07	0.00	98.00	3.30	0.07	0.00
48.00	3.30	0.07	0.00	99.00	3.30	0.07	0.00
49.00	3.30	0.07	0.00	100.00	3.30	0.07	0.00
50.00	3.30	0.07	0.00				

Summary for Subcatchment 48S: P-400 PERV

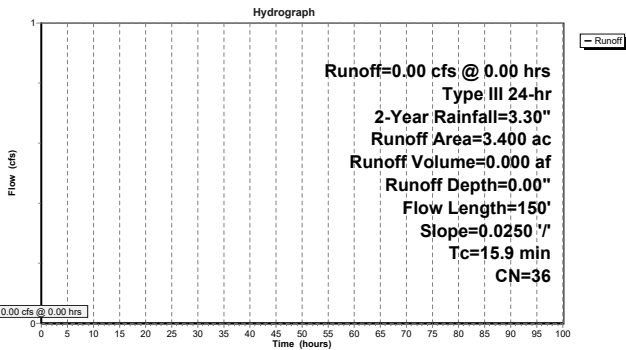
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.920	39	>75% Grass cover, Good, HSG A
3.400	36	Weighted Average
3.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 48S: P-400 PERV



Hydrograph for Subcatchment 48S: P-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	0.00	0.00
1.00	0.03	0.00	0.00	52.00	3.30	0.00	0.00
2.00	0.07	0.00	0.00	53.00	3.30	0.00	0.00
3.00	0.10	0.00	0.00	54.00	3.30	0.00	0.00
4.00	0.14	0.00	0.00	55.00	3.30	0.00	0.00
5.00	0.19	0.00	0.00	56.00	3.30	0.00	0.00
6.00	0.24	0.00	0.00	57.00	3.30	0.00	0.00
7.00	0.30	0.00	0.00	58.00	3.30	0.00	0.00
8.00	0.38	0.00	0.00	59.00	3.30	0.00	0.00
9.00	0.48	0.00	0.00	60.00	3.30	0.00	0.00
10.00	0.62	0.00	0.00	61.00	3.30	0.00	0.00
11.00	0.83	0.00	0.00	62.00	3.30	0.00	0.00
12.00	1.65	0.00	0.00	63.00	3.30	0.00	0.00
13.00	2.47	0.00	0.00	64.00	3.30	0.00	0.00
14.00	2.68	0.00	0.00	65.00	3.30	0.00	0.00
15.00	2.82	0.00	0.00	66.00	3.30	0.00	0.00
16.00	2.92	0.00	0.00	67.00	3.30	0.00	0.00
17.00	3.00	0.00	0.00	68.00	3.30	0.00	0.00
18.00	3.06	0.00	0.00	69.00	3.30	0.00	0.00
19.00	3.11	0.00	0.00	70.00	3.30	0.00	0.00
20.00	3.16	0.00	0.00	71.00	3.30	0.00	0.00
21.00	3.20	0.00	0.00	72.00	3.30	0.00	0.00
22.00	3.24	0.00	0.00	73.00	3.30	0.00	0.00
23.00	3.27	0.00	0.00	74.00	3.30	0.00	0.00
24.00	3.30	0.00	0.00	75.00	3.30	0.00	0.00
25.00	3.30	0.00	0.00	76.00	3.30	0.00	0.00
26.00	3.30	0.00	0.00	77.00	3.30	0.00	0.00
27.00	3.30	0.00	0.00	78.00	3.30	0.00	0.00
28.00	3.30	0.00	0.00	79.00	3.30	0.00	0.00
29.00	3.30	0.00	0.00	80.00	3.30	0.00	0.00
30.00	3.30	0.00	0.00	81.00	3.30	0.00	0.00
31.00	3.30	0.00	0.00	82.00	3.30	0.00	0.00
32.00	3.30	0.00	0.00	83.00	3.30	0.00	0.00
33.00	3.30	0.00	0.00	84.00	3.30	0.00	0.00
34.00	3.30	0.00	0.00	85.00	3.30	0.00	0.00
35.00	3.30	0.00	0.00	86.00	3.30	0.00	0.00
36.00	3.30	0.00	0.00	87.00	3.30	0.00	0.00
37.00	3.30	0.00	0.00	88.00	3.30	0.00	0.00
38.00	3.30	0.00	0.00	89.00	3.30	0.00	0.00
39.00	3.30	0.00	0.00	90.00	3.30	0.00	0.00
40.00	3.30	0.00	0.00	91.00	3.30	0.00	0.00
41.00	3.30	0.00	0.00	92.00	3.30	0.00	0.00
42.00	3.30	0.00	0.00	93.00	3.30	0.00	0.00
43.00	3.30	0.00	0.00	94.00	3.30	0.00	0.00
44.00	3.30	0.00	0.00	95.00	3.30	0.00	0.00
45.00	3.30	0.00	0.00	96.00	3.30	0.00	0.00
46.00	3.30	0.00	0.00	97.00	3.30	0.00	0.00
47.00	3.30	0.00	0.00	98.00	3.30	0.00	0.00
48.00	3.30	0.00	0.00	99.00	3.30	0.00	0.00
49.00	3.30	0.00	0.00	100.00	3.30	0.00	0.00
50.00	3.30	0.00	0.00				

Summary for Subcatchment 49S: P-100 IMP

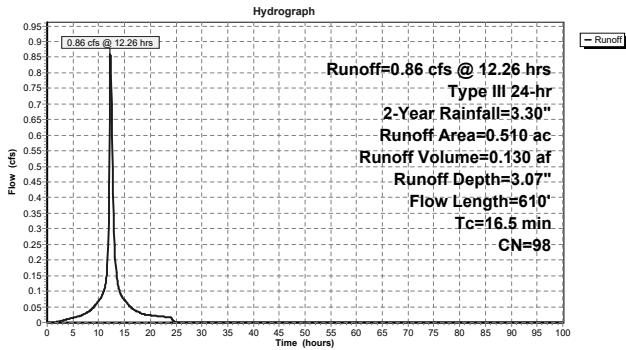
Runoff = 0.86 cfs @ 12.26 hrs, Volume= 0.130 af, Depth= 3.07"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
* 0.510	98	Unconnected pavement
0.510		100.00% Impervious Area
0.510		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 49S: P-100 IMP



Hydrograph for Subcatchment 49S: P-100 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	3.07	0.00
1.00	0.03	0.00	0.00	52.00	3.30	3.07	0.00
2.00	0.07	0.00	0.00	53.00	3.30	3.07	0.00
3.00	0.10	0.01	0.01	54.00	3.30	3.07	0.00
4.00	0.14	0.03	0.01	55.00	3.30	3.07	0.00
5.00	0.19	0.06	0.01	56.00	3.30	3.07	0.00
6.00	0.24	0.10	0.02	57.00	3.30	3.07	0.00
7.00	0.30	0.14	0.03	58.00	3.30	3.07	0.00
8.00	0.38	0.21	0.03	59.00	3.30	3.07	0.00
9.00	0.48	0.30	0.05	60.00	3.30	3.07	0.00
10.00	0.62	0.43	0.07	61.00	3.30	3.07	0.00
11.00	0.83	0.62	0.10	62.00	3.30	3.07	0.00
12.00	1.65	1.43	0.43	63.00	3.30	3.07	0.00
13.00	2.47	2.25	0.29	64.00	3.30	3.07	0.00
14.00	2.68	2.45	0.10	65.00	3.30	3.07	0.00
15.00	2.82	2.59	0.07	66.00	3.30	3.07	0.00
16.00	2.92	2.69	0.05	67.00	3.30	3.07	0.00
17.00	3.00	2.77	0.04	68.00	3.30	3.07	0.00
18.00	3.06	2.83	0.03	69.00	3.30	3.07	0.00
19.00	3.11	2.88	0.03	70.00	3.30	3.07	0.00
20.00	3.16	2.93	0.02	71.00	3.30	3.07	0.00
21.00	3.20	2.97	0.02	72.00	3.30	3.07	0.00
22.00	3.24	3.00	0.02	73.00	3.30	3.07	0.00
23.00	3.27	3.04	0.02	74.00	3.30	3.07	0.00
24.00	3.30	3.07	0.02	75.00	3.30	3.07	0.00
25.00	3.30	3.07	0.00	76.00	3.30	3.07	0.00
26.00	3.30	3.07	0.00	77.00	3.30	3.07	0.00
27.00	3.30	3.07	0.00	78.00	3.30	3.07	0.00
28.00	3.30	3.07	0.00	79.00	3.30	3.07	0.00
29.00	3.30	3.07	0.00	80.00	3.30	3.07	0.00
30.00	3.30	3.07	0.00	81.00	3.30	3.07	0.00
31.00	3.30	3.07	0.00	82.00	3.30	3.07	0.00
32.00	3.30	3.07	0.00	83.00	3.30	3.07	0.00
33.00	3.30	3.07	0.00	84.00	3.30	3.07	0.00
34.00	3.30	3.07	0.00	85.00	3.30	3.07	0.00
35.00	3.30	3.07	0.00	86.00	3.30	3.07	0.00
36.00	3.30	3.07	0.00	87.00	3.30	3.07	0.00
37.00	3.30	3.07	0.00	88.00	3.30	3.07	0.00
38.00	3.30	3.07	0.00	89.00	3.30	3.07	0.00
39.00	3.30	3.07	0.00	90.00	3.30	3.07	0.00
40.00	3.30	3.07	0.00	91.00	3.30	3.07	0.00
41.00	3.30	3.07	0.00	92.00	3.30	3.07	0.00
42.00	3.30	3.07	0.00	93.00	3.30	3.07	0.00
43.00	3.30	3.07	0.00	94.00	3.30	3.07	0.00
44.00	3.30	3.07	0.00	95.00	3.30	3.07	0.00
45.00	3.30	3.07	0.00	96.00	3.30	3.07	0.00
46.00	3.30	3.07	0.00	97.00	3.30	3.07	0.00
47.00	3.30	3.07	0.00	98.00	3.30	3.07	0.00
48.00	3.30	3.07	0.00	99.00	3.30	3.07	0.00
49.00	3.30	3.07	0.00	100.00	3.30	3.07	0.00
50.00	3.30	3.07	0.00				

Summary for Subcatchment 50S: P-200 IMP

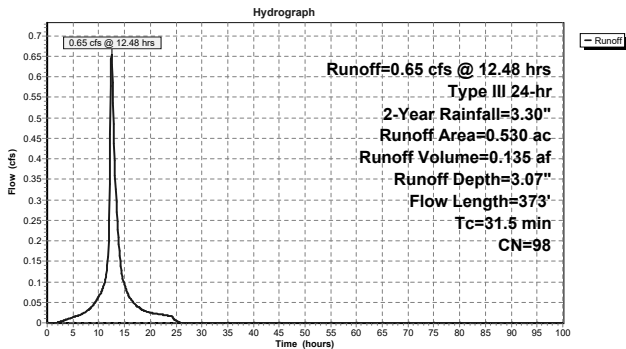
Runoff = 0.65 cfs @ 12.48 hrs, Volume= 0.135 af, Depth= 3.07"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
* 0.530	98	Unconnected pavement
0.530		100.00% Impervious Area
0.530		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 50S: P-200 IMP



Hydrograph for Subcatchment 50S: P-200 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	3.07	0.00
1.00	0.03	0.00	0.00	52.00	3.30	3.07	0.00
2.00	0.07	0.00	0.00	53.00	3.30	3.07	0.00
3.00	0.10	0.01	0.00	54.00	3.30	3.07	0.00
4.00	0.14	0.03	0.01	55.00	3.30	3.07	0.00
5.00	0.19	0.06	0.01	56.00	3.30	3.07	0.00
6.00	0.24	0.10	0.02	57.00	3.30	3.07	0.00
7.00	0.30	0.14	0.02	58.00	3.30	3.07	0.00
8.00	0.38	0.21	0.03	59.00	3.30	3.07	0.00
9.00	0.48	0.30	0.04	60.00	3.30	3.07	0.00
10.00	0.62	0.43	0.06	61.00	3.30	3.07	0.00
11.00	0.83	0.62	0.09	62.00	3.30	3.07	0.00
12.00	1.65	1.43	0.25	63.00	3.30	3.07	0.00
13.00	2.47	2.25	0.44	64.00	3.30	3.07	0.00
14.00	2.68	2.45	0.18	65.00	3.30	3.07	0.00
15.00	2.82	2.59	0.09	66.00	3.30	3.07	0.00
16.00	2.92	2.69	0.06	67.00	3.30	3.07	0.00
17.00	3.00	2.77	0.05	68.00	3.30	3.07	0.00
18.00	3.06	2.83	0.04	69.00	3.30	3.07	0.00
19.00	3.11	2.88	0.03	70.00	3.30	3.07	0.00
20.00	3.16	2.93	0.03	71.00	3.30	3.07	0.00
21.00	3.20	2.97	0.02	72.00	3.30	3.07	0.00
22.00	3.24	3.00	0.02	73.00	3.30	3.07	0.00
23.00	3.27	3.04	0.02	74.00	3.30	3.07	0.00
24.00	3.30	3.07	0.02	75.00	3.30	3.07	0.00
25.00	3.30	3.07	0.00	76.00	3.30	3.07	0.00
26.00	3.30	3.07	0.00	77.00	3.30	3.07	0.00
27.00	3.30	3.07	0.00	78.00	3.30	3.07	0.00
28.00	3.30	3.07	0.00	79.00	3.30	3.07	0.00
29.00	3.30	3.07	0.00	80.00	3.30	3.07	0.00
30.00	3.30	3.07	0.00	81.00	3.30	3.07	0.00
31.00	3.30	3.07	0.00	82.00	3.30	3.07	0.00
32.00	3.30	3.07	0.00	83.00	3.30	3.07	0.00
33.00	3.30	3.07	0.00	84.00	3.30	3.07	0.00
34.00	3.30	3.07	0.00	85.00	3.30	3.07	0.00
35.00	3.30	3.07	0.00	86.00	3.30	3.07	0.00
36.00	3.30	3.07	0.00	87.00	3.30	3.07	0.00
37.00	3.30	3.07	0.00	88.00	3.30	3.07	0.00
38.00	3.30	3.07	0.00	89.00	3.30	3.07	0.00
39.00	3.30	3.07	0.00	90.00	3.30	3.07	0.00
40.00	3.30	3.07	0.00	91.00	3.30	3.07	0.00
41.00	3.30	3.07	0.00	92.00	3.30	3.07	0.00
42.00	3.30	3.07	0.00	93.00	3.30	3.07	0.00
43.00	3.30	3.07	0.00	94.00	3.30	3.07	0.00
44.00	3.30	3.07	0.00	95.00	3.30	3.07	0.00
45.00	3.30	3.07	0.00	96.00	3.30	3.07	0.00
46.00	3.30	3.07	0.00	97.00	3.30	3.07	0.00
47.00	3.30	3.07	0.00	98.00	3.30	3.07	0.00
48.00	3.30	3.07	0.00	99.00	3.30	3.07	0.00
49.00	3.30	3.07	0.00	100.00	3.30	3.07	0.00
50.00	3.30	3.07	0.00				

Summary for Subcatchment 51S: P-300 IMP

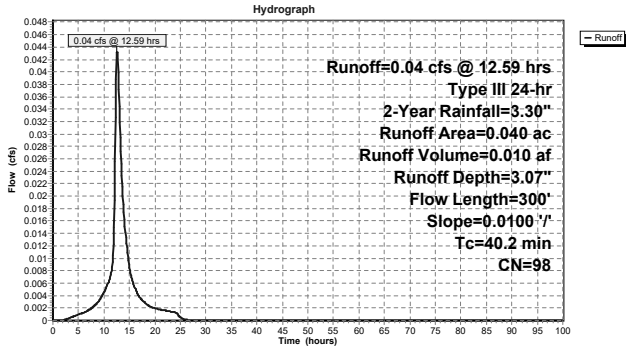
Runoff = 0.04 cfs @ 12.59 hrs, Volume= 0.010 af, Depth= 3.07"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
0.040	98	Unconnected pavement
0.040		100.00% Impervious Area
0.040		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 51S: P-300 IMP



Hydrograph for Subcatchment 51S: P-300 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	3.07	0.00
1.00	0.03	0.00	0.00	52.00	3.30	3.07	0.00
2.00	0.07	0.00	0.00	53.00	3.30	3.07	0.00
3.00	0.10	0.01	0.00	54.00	3.30	3.07	0.00
4.00	0.14	0.03	0.00	55.00	3.30	3.07	0.00
5.00	0.19	0.06	0.00	56.00	3.30	3.07	0.00
6.00	0.24	0.10	0.00	57.00	3.30	3.07	0.00
7.00	0.30	0.14	0.00	58.00	3.30	3.07	0.00
8.00	0.38	0.21	0.00	59.00	3.30	3.07	0.00
9.00	0.48	0.30	0.00	60.00	3.30	3.07	0.00
10.00	0.62	0.43	0.00	61.00	3.30	3.07	0.00
11.00	0.83	0.62	0.01	62.00	3.30	3.07	0.00
12.00	1.65	1.43	0.01	63.00	3.30	3.07	0.00
13.00	2.47	2.25	0.03	64.00	3.30	3.07	0.00
14.00	2.68	2.45	0.02	65.00	3.30	3.07	0.00
15.00	2.82	2.59	0.01	66.00	3.30	3.07	0.00
16.00	2.92	2.69	0.01	67.00	3.30	3.07	0.00
17.00	3.00	2.77	0.00	68.00	3.30	3.07	0.00
18.00	3.06	2.83	0.00	69.00	3.30	3.07	0.00
19.00	3.11	2.88	0.00	70.00	3.30	3.07	0.00
20.00	3.16	2.93	0.00	71.00	3.30	3.07	0.00
21.00	3.20	2.97	0.00	72.00	3.30	3.07	0.00
22.00	3.24	3.00	0.00	73.00	3.30	3.07	0.00
23.00	3.27	3.04	0.00	74.00	3.30	3.07	0.00
24.00	3.30	3.07	0.00	75.00	3.30	3.07	0.00
25.00	3.30	3.07	0.00	76.00	3.30	3.07	0.00
26.00	3.30	3.07	0.00	77.00	3.30	3.07	0.00
27.00	3.30	3.07	0.00	78.00	3.30	3.07	0.00
28.00	3.30	3.07	0.00	79.00	3.30	3.07	0.00
29.00	3.30	3.07	0.00	80.00	3.30	3.07	0.00
30.00	3.30	3.07	0.00	81.00	3.30	3.07	0.00
31.00	3.30	3.07	0.00	82.00	3.30	3.07	0.00
32.00	3.30	3.07	0.00	83.00	3.30	3.07	0.00
33.00	3.30	3.07	0.00	84.00	3.30	3.07	0.00
34.00	3.30	3.07	0.00	85.00	3.30	3.07	0.00
35.00	3.30	3.07	0.00	86.00	3.30	3.07	0.00
36.00	3.30	3.07	0.00	87.00	3.30	3.07	0.00
37.00	3.30	3.07	0.00	88.00	3.30	3.07	0.00
38.00	3.30	3.07	0.00	89.00	3.30	3.07	0.00
39.00	3.30	3.07	0.00	90.00	3.30	3.07	0.00
40.00	3.30	3.07	0.00	91.00	3.30	3.07	0.00
41.00	3.30	3.07	0.00	92.00	3.30	3.07	0.00
42.00	3.30	3.07	0.00	93.00	3.30	3.07	0.00
43.00	3.30	3.07	0.00	94.00	3.30	3.07	0.00
44.00	3.30	3.07	0.00	95.00	3.30	3.07	0.00
45.00	3.30	3.07	0.00	96.00	3.30	3.07	0.00
46.00	3.30	3.07	0.00	97.00	3.30	3.07	0.00
47.00	3.30	3.07	0.00	98.00	3.30	3.07	0.00
48.00	3.30	3.07	0.00	99.00	3.30	3.07	0.00
49.00	3.30	3.07	0.00	100.00	3.30	3.07	0.00
50.00	3.30	3.07	0.00				

Summary for Subcatchment 52S: P-400 IMP

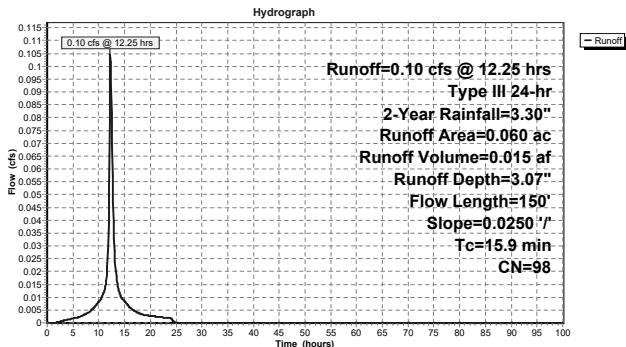
Runoff = 0.10 cfs @ 12.25 hrs, Volume= 0.015 af, Depth= 3.07"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
0.060	98	Unconnected pavement
0.060		100.00% Impervious Area
0.060		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 52S: P-400 IMP



Hydrograph for Subcatchment 52S: P-400 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	3.07	0.00
1.00	0.03	0.00	0.00	52.00	3.30	3.07	0.00
2.00	0.07	0.00	0.00	53.00	3.30	3.07	0.00
3.00	0.10	0.01	0.00	54.00	3.30	3.07	0.00
4.00	0.14	0.03	0.00	55.00	3.30	3.07	0.00
5.00	0.19	0.06	0.00	56.00	3.30	3.07	0.00
6.00	0.24	0.10	0.00	57.00	3.30	3.07	0.00
7.00	0.30	0.14	0.00	58.00	3.30	3.07	0.00
8.00	0.38	0.21	0.00	59.00	3.30	3.07	0.00
9.00	0.48	0.30	0.01	60.00	3.30	3.07	0.00
10.00	0.62	0.43	0.01	61.00	3.30	3.07	0.00
11.00	0.83	0.62	0.01	62.00	3.30	3.07	0.00
12.00	1.65	1.43	0.05	63.00	3.30	3.07	0.00
13.00	2.47	2.25	0.03	64.00	3.30	3.07	0.00
14.00	2.68	2.45	0.01	65.00	3.30	3.07	0.00
15.00	2.82	2.59	0.01	66.00	3.30	3.07	0.00
16.00	2.92	2.69	0.01	67.00	3.30	3.07	0.00
17.00	3.00	2.77	0.00	68.00	3.30	3.07	0.00
18.00	3.06	2.83	0.00	69.00	3.30	3.07	0.00
19.00	3.11	2.88	0.00	70.00	3.30	3.07	0.00
20.00	3.16	2.93	0.00	71.00	3.30	3.07	0.00
21.00	3.20	2.97	0.00	72.00	3.30	3.07	0.00
22.00	3.24	3.00	0.00	73.00	3.30	3.07	0.00
23.00	3.27	3.04	0.00	74.00	3.30	3.07	0.00
24.00	3.30	3.07	0.00	75.00	3.30	3.07	0.00
25.00	3.30	3.07	0.00	76.00	3.30	3.07	0.00
26.00	3.30	3.07	0.00	77.00	3.30	3.07	0.00
27.00	3.30	3.07	0.00	78.00	3.30	3.07	0.00
28.00	3.30	3.07	0.00	79.00	3.30	3.07	0.00
29.00	3.30	3.07	0.00	80.00	3.30	3.07	0.00
30.00	3.30	3.07	0.00	81.00	3.30	3.07	0.00
31.00	3.30	3.07	0.00	82.00	3.30	3.07	0.00
32.00	3.30	3.07	0.00	83.00	3.30	3.07	0.00
33.00	3.30	3.07	0.00	84.00	3.30	3.07	0.00
34.00	3.30	3.07	0.00	85.00	3.30	3.07	0.00
35.00	3.30	3.07	0.00	86.00	3.30	3.07	0.00
36.00	3.30	3.07	0.00	87.00	3.30	3.07	0.00
37.00	3.30	3.07	0.00	88.00	3.30	3.07	0.00
38.00	3.30	3.07	0.00	89.00	3.30	3.07	0.00
39.00	3.30	3.07	0.00	90.00	3.30	3.07	0.00
40.00	3.30	3.07	0.00	91.00	3.30	3.07	0.00
41.00	3.30	3.07	0.00	92.00	3.30	3.07	0.00
42.00	3.30	3.07	0.00	93.00	3.30	3.07	0.00
43.00	3.30	3.07	0.00	94.00	3.30	3.07	0.00
44.00	3.30	3.07	0.00	95.00	3.30	3.07	0.00
45.00	3.30	3.07	0.00	96.00	3.30	3.07	0.00
46.00	3.30	3.07	0.00	97.00	3.30	3.07	0.00
47.00	3.30	3.07	0.00	98.00	3.30	3.07	0.00
48.00	3.30	3.07	0.00	99.00	3.30	3.07	0.00
49.00	3.30	3.07	0.00	100.00	3.30	3.07	0.00
50.00	3.30	3.07	0.00				

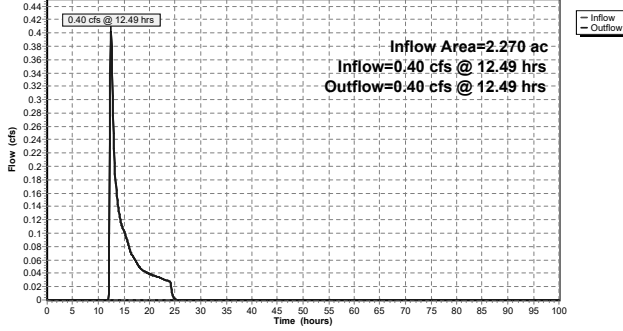
Summary for Reach 6R: E-100

Inflow Area = 2.270 ac, 0.00% Impervious, Inflow Depth = 0.45" for 2-Year event
 Inflow = 0.40 cfs @ 12.49 hrs, Volume= 0.085 af
 Outflow = 0.40 cfs @ 12.49 hrs, Volume= 0.085 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 6R: E-100

Hydrograph



Hydrograph for Reach 6R: E-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.01	0.01	0.01	63.00	0.00	0.00	0.00
13.00	0.25	0.25	0.25	64.00	0.00	0.00	0.00
14.00	0.13	0.13	0.13	65.00	0.00	0.00	0.00
15.00	0.10	0.10	0.10	66.00	0.00	0.00	0.00
16.00	0.08	0.08	0.08	67.00	0.00	0.00	0.00
17.00	0.06	0.06	0.06	68.00	0.00	0.00	0.00
18.00	0.05	0.05	0.05	69.00	0.00	0.00	0.00
19.00	0.04	0.04	0.04	70.00	0.00	0.00	0.00
20.00	0.04	0.04	0.04	71.00	0.00	0.00	0.00
21.00	0.04	0.04	0.04	72.00	0.00	0.00	0.00
22.00	0.03	0.03	0.03	73.00	0.00	0.00	0.00
23.00	0.03	0.03	0.03	74.00	0.00	0.00	0.00
24.00	0.03	0.03	0.03	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

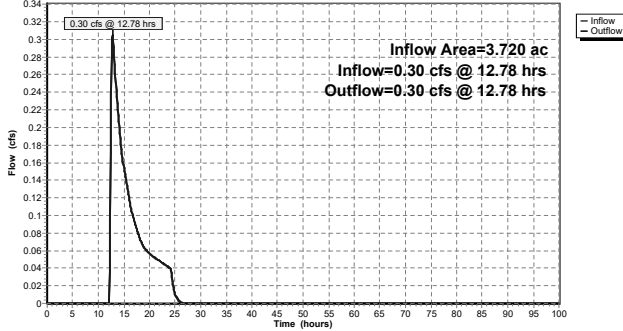
Summary for Reach 7R: E-200

Inflow Area = 3.720 ac, 0.00% Impervious, Inflow Depth = 0.34" for 2-Year event
 Inflow = 0.30 cfs @ 12.78 hrs, Volume= 0.107 af
 Outflow = 0.30 cfs @ 12.78 hrs, Volume= 0.107 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 7R: E-200

Hydrograph



Hydrograph for Reach 7R: E-200

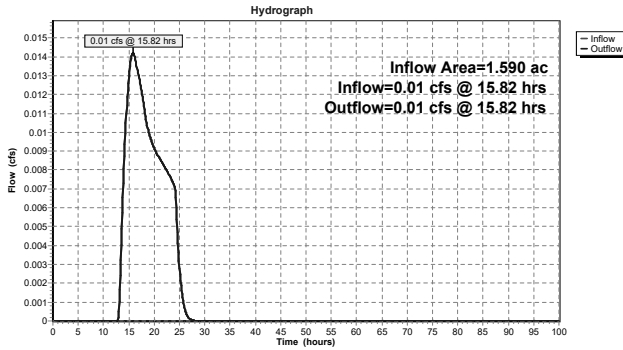
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
13.00	0.29	0.29	0.29	64.00	0.00	0.00	0.00
14.00	0.21	0.21	0.21	65.00	0.00	0.00	0.00
15.00	0.15	0.15	0.15	66.00	0.00	0.00	0.00
16.00	0.12	0.12	0.12	67.00	0.00	0.00	0.00
17.00	0.09	0.09	0.09	68.00	0.00	0.00	0.00
18.00	0.08	0.08	0.08	69.00	0.00	0.00	0.00
19.00	0.06	0.06	0.06	70.00	0.00	0.00	0.00
20.00	0.06	0.06	0.06	71.00	0.00	0.00	0.00
21.00	0.05	0.05	0.05	72.00	0.00	0.00	0.00
22.00	0.05	0.05	0.05	73.00	0.00	0.00	0.00
23.00	0.04	0.04	0.04	74.00	0.00	0.00	0.00
24.00	0.04	0.04	0.04	75.00	0.00	0.00	0.00
25.00	0.01	0.01	0.01	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 8R: E-300

Inflow Area = 1.590 ac, 0.00% Impervious, Inflow Depth = 0.07" for 2-Year event
 Inflow = 0.01 cfs @ 15.82 hrs, Volume= 0.009 af
 Outflow = 0.01 cfs @ 15.82 hrs, Volume= 0.009 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 8R: E-300



Hydrograph for Reach 8R: E-300

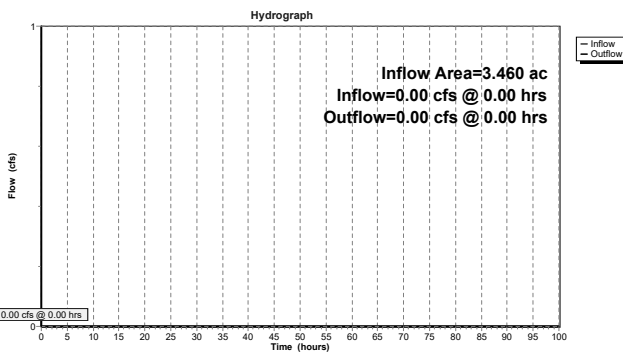
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
13.00	0.00	0.00	0.00	64.00	0.00	0.00	0.00
14.00	0.01	0.01	0.01	65.00	0.00	0.00	0.00
15.00	0.01	0.01	0.01	66.00	0.00	0.00	0.00
16.00	0.01	0.01	0.01	67.00	0.00	0.00	0.00
17.00	0.01	0.01	0.01	68.00	0.00	0.00	0.00
18.00	0.01	0.01	0.01	69.00	0.00	0.00	0.00
19.00	0.01	0.01	0.01	70.00	0.00	0.00	0.00
20.00	0.01	0.01	0.01	71.00	0.00	0.00	0.00
21.00	0.01	0.01	0.01	72.00	0.00	0.00	0.00
22.00	0.01	0.01	0.01	73.00	0.00	0.00	0.00
23.00	0.01	0.01	0.01	74.00	0.00	0.00	0.00
24.00	0.01	0.01	0.01	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 22R: E-400

Inflow Area = 3.460 ac, 0.00% Impervious, Inflow Depth = 0.00" for 2-Year event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 22R: E-400



Hydrograph for Reach 22R: E-400

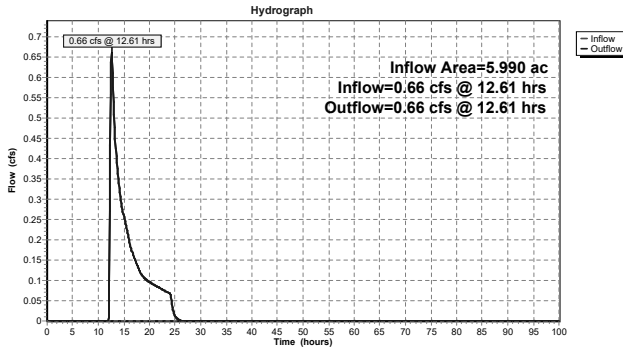
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
13.00	0.00	0.00	0.00	64.00	0.00	0.00	0.00
14.00	0.00	0.00	0.00	65.00	0.00	0.00	0.00
15.00	0.00	0.00	0.00	66.00	0.00	0.00	0.00
16.00	0.00	0.00	0.00	67.00	0.00	0.00	0.00
17.00	0.00	0.00	0.00	68.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	69.00	0.00	0.00	0.00
19.00	0.00	0.00	0.00	70.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	71.00	0.00	0.00	0.00
21.00	0.00	0.00	0.00	72.00	0.00	0.00	0.00
22.00	0.00	0.00	0.00	73.00	0.00	0.00	0.00
23.00	0.00	0.00	0.00	74.00	0.00	0.00	0.00
24.00	0.00	0.00	0.00	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 23R: E-POA "A"

Inflow Area = 5.990 ac, 0.00% Impervious, Inflow Depth = 0.38" for 2-Year event
 Inflow = 0.66 cfs @ 12.61 hrs, Volume= 0.191 af
 Outflow = 0.66 cfs @ 12.61 hrs, Volume= 0.191 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 23R: E-POA "A"



Hydrograph for Reach 23R: E-POA "A"

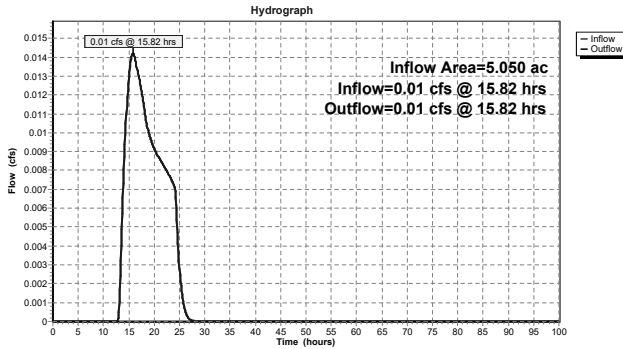
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.01	0.01	0.01	63.00	0.00	0.00	0.00
13.00	0.54	0.54	0.54	64.00	0.00	0.00	0.00
14.00	0.34	0.34	0.34	65.00	0.00	0.00	0.00
15.00	0.26	0.26	0.26	66.00	0.00	0.00	0.00
16.00	0.20	0.20	0.20	67.00	0.00	0.00	0.00
17.00	0.16	0.16	0.16	68.00	0.00	0.00	0.00
18.00	0.13	0.13	0.13	69.00	0.00	0.00	0.00
19.00	0.11	0.11	0.11	70.00	0.00	0.00	0.00
20.00	0.10	0.10	0.10	71.00	0.00	0.00	0.00
21.00	0.09	0.09	0.09	72.00	0.00	0.00	0.00
22.00	0.08	0.08	0.08	73.00	0.00	0.00	0.00
23.00	0.07	0.07	0.07	74.00	0.00	0.00	0.00
24.00	0.07	0.07	0.07	75.00	0.00	0.00	0.00
25.00	0.01	0.01	0.01	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 25R: E-POA "B"

Inflow Area = 5.050 ac, 0.00% Impervious, Inflow Depth = 0.02" for 2-Year event
 Inflow = 0.01 cfs @ 15.82 hrs, Volume= 0.009 af
 Outflow = 0.01 cfs @ 15.82 hrs, Volume= 0.009 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 25R: E-POA "B"



Hydrograph for Reach 25R: E-POA "B"

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
13.00	0.00	0.00	0.00	64.00	0.00	0.00	0.00
14.00	0.01	0.01	0.01	65.00	0.00	0.00	0.00
15.00	0.01	0.01	0.01	66.00	0.00	0.00	0.00
16.00	0.01	0.01	0.01	67.00	0.00	0.00	0.00
17.00	0.01	0.01	0.01	68.00	0.00	0.00	0.00
18.00	0.01	0.01	0.01	69.00	0.00	0.00	0.00
19.00	0.01	0.01	0.01	70.00	0.00	0.00	0.00
20.00	0.01	0.01	0.01	71.00	0.00	0.00	0.00
21.00	0.01	0.01	0.01	72.00	0.00	0.00	0.00
22.00	0.01	0.01	0.01	73.00	0.00	0.00	0.00
23.00	0.01	0.01	0.01	74.00	0.00	0.00	0.00
24.00	0.01	0.01	0.01	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

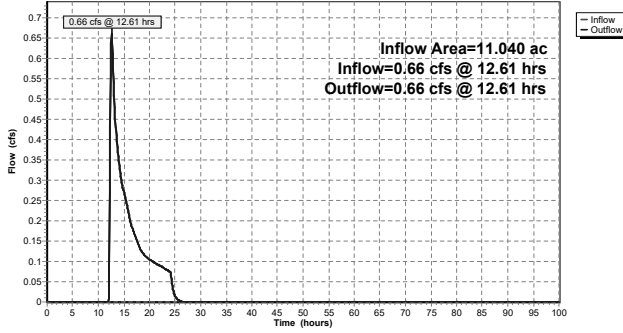
Summary for Reach 26R: E-POA

Inflow Area = 11.040 ac, 0.00% Impervious, Inflow Depth = 0.22" for 2-Year event
 Inflow = 0.66 cfs @ 12.61 hrs, Volume= 0.201 af
 Outflow = 0.66 cfs @ 12.61 hrs, Volume= 0.201 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 26R: E-POA

Hydrograph



Hydrograph for Reach 26R: E-POA

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.01	0.01	0.01	63.00	0.00	0.00	0.00
13.00	0.54	0.54	0.54	64.00	0.00	0.00	0.00
14.00	0.35	0.35	0.35	65.00	0.00	0.00	0.00
15.00	0.27	0.27	0.27	66.00	0.00	0.00	0.00
16.00	0.21	0.21	0.21	67.00	0.00	0.00	0.00
17.00	0.17	0.17	0.17	68.00	0.00	0.00	0.00
18.00	0.14	0.14	0.14	69.00	0.00	0.00	0.00
19.00	0.12	0.12	0.12	70.00	0.00	0.00	0.00
20.00	0.11	0.11	0.11	71.00	0.00	0.00	0.00
21.00	0.10	0.10	0.10	72.00	0.00	0.00	0.00
22.00	0.09	0.09	0.09	73.00	0.00	0.00	0.00
23.00	0.08	0.08	0.08	74.00	0.00	0.00	0.00
24.00	0.07	0.07	0.07	75.00	0.00	0.00	0.00
25.00	0.01	0.01	0.01	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

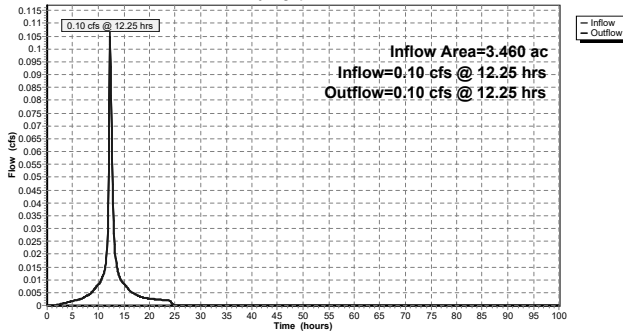
Summary for Reach 38R: P-400

Inflow Area = 3.460 ac, 1.73% Impervious, Inflow Depth = 0.05" for 2-Year event
 Inflow = 0.10 cfs @ 12.25 hrs, Volume= 0.015 af
 Outflow = 0.10 cfs @ 12.25 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 38R: P-400

Hydrograph



Hydrograph for Reach 38R: P-400

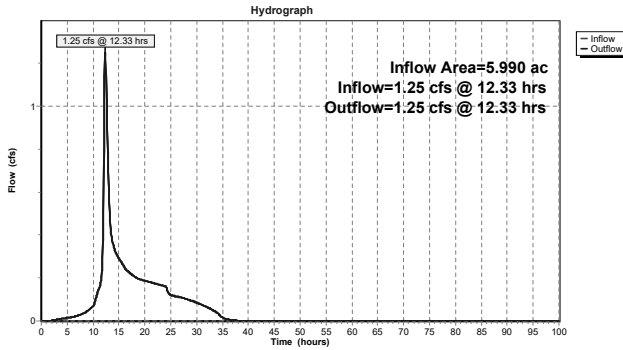
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.01	0.01	0.01	60.00	0.00	0.00	0.00
10.00	0.01	0.01	0.01	61.00	0.00	0.00	0.00
11.00	0.01	0.01	0.01	62.00	0.00	0.00	0.00
12.00	0.05	0.05	0.05	63.00	0.00	0.00	0.00
13.00	0.03	0.03	0.03	64.00	0.00	0.00	0.00
14.00	0.01	0.01	0.01	65.00	0.00	0.00	0.00
15.00	0.01	0.01	0.01	66.00	0.00	0.00	0.00
16.00	0.01	0.01	0.01	67.00	0.00	0.00	0.00
17.00	0.00	0.00	0.00	68.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	69.00	0.00	0.00	0.00
19.00	0.00	0.00	0.00	70.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	71.00	0.00	0.00	0.00
21.00	0.00	0.00	0.00	72.00	0.00	0.00	0.00
22.00	0.00	0.00	0.00	73.00	0.00	0.00	0.00
23.00	0.00	0.00	0.00	74.00	0.00	0.00	0.00
24.00	0.00	0.00	0.00	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 39R: P-POA "A"

Inflow Area = 5.990 ac, 17.36% Impervious, Inflow Depth = 0.82" for 2-Year event
 Inflow = 1.25 cfs @ 12.33 hrs, Volume= 0.412 af
 Outflow = 1.25 cfs @ 12.33 hrs, Volume= 0.412 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 39R: P-POA "A"



Hydrograph for Reach 39R: P-POA "A"

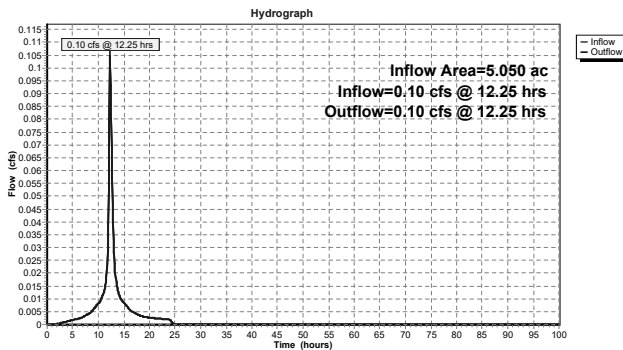
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.01	0.01	0.01	54.00	0.00	0.00	0.00
4.00	0.01	0.01	0.01	55.00	0.00	0.00	0.00
5.00	0.01	0.01	0.01	56.00	0.00	0.00	0.00
6.00	0.02	0.02	0.02	57.00	0.00	0.00	0.00
7.00	0.03	0.03	0.03	58.00	0.00	0.00	0.00
8.00	0.03	0.03	0.03	59.00	0.00	0.00	0.00
9.00	0.05	0.05	0.05	60.00	0.00	0.00	0.00
10.00	0.07	0.07	0.07	61.00	0.00	0.00	0.00
11.00	0.14	0.14	0.14	62.00	0.00	0.00	0.00
12.00	0.51	0.51	0.51	63.00	0.00	0.00	0.00
13.00	0.62	0.62	0.62	64.00	0.00	0.00	0.00
14.00	0.34	0.34	0.34	65.00	0.00	0.00	0.00
15.00	0.29	0.29	0.29	66.00	0.00	0.00	0.00
16.00	0.25	0.25	0.25	67.00	0.00	0.00	0.00
17.00	0.23	0.23	0.23	68.00	0.00	0.00	0.00
18.00	0.21	0.21	0.21	69.00	0.00	0.00	0.00
19.00	0.19	0.19	0.19	70.00	0.00	0.00	0.00
20.00	0.19	0.19	0.19	71.00	0.00	0.00	0.00
21.00	0.18	0.18	0.18	72.00	0.00	0.00	0.00
22.00	0.17	0.17	0.17	73.00	0.00	0.00	0.00
23.00	0.17	0.17	0.17	74.00	0.00	0.00	0.00
24.00	0.16	0.16	0.16	75.00	0.00	0.00	0.00
25.00	0.12	0.12	0.12	76.00	0.00	0.00	0.00
26.00	0.11	0.11	0.11	77.00	0.00	0.00	0.00
27.00	0.11	0.11	0.11	78.00	0.00	0.00	0.00
28.00	0.10	0.10	0.10	79.00	0.00	0.00	0.00
29.00	0.09	0.09	0.09	80.00	0.00	0.00	0.00
30.00	0.09	0.09	0.09	81.00	0.00	0.00	0.00
31.00	0.08	0.08	0.08	82.00	0.00	0.00	0.00
32.00	0.06	0.06	0.06	83.00	0.00	0.00	0.00
33.00	0.05	0.05	0.05	84.00	0.00	0.00	0.00
34.00	0.04	0.04	0.04	85.00	0.00	0.00	0.00
35.00	0.02	0.02	0.02	86.00	0.00	0.00	0.00
36.00	0.01	0.01	0.01	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 40R: P-POA "B"

Inflow Area = 5.050 ac, 1.98% Impervious, Inflow Depth = 0.04" for 2-Year event
 Inflow = 0.10 cfs @ 12.25 hrs, Volume= 0.015 af
 Outflow = 0.10 cfs @ 12.25 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 40R: P-POA "B"



Hydrograph for Reach 40R: P-POA "B"

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.01	0.01	0.01	60.00	0.00	0.00	0.00
10.00	0.01	0.01	0.01	61.00	0.00	0.00	0.00
11.00	0.01	0.01	0.01	62.00	0.00	0.00	0.00
12.00	0.05	0.05	0.05	63.00	0.00	0.00	0.00
13.00	0.03	0.03	0.03	64.00	0.00	0.00	0.00
14.00	0.01	0.01	0.01	65.00	0.00	0.00	0.00
15.00	0.01	0.01	0.01	66.00	0.00	0.00	0.00
16.00	0.01	0.01	0.01	67.00	0.00	0.00	0.00
17.00	0.00	0.00	0.00	68.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	69.00	0.00	0.00	0.00
19.00	0.00	0.00	0.00	70.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	71.00	0.00	0.00	0.00
21.00	0.00	0.00	0.00	72.00	0.00	0.00	0.00
22.00	0.00	0.00	0.00	73.00	0.00	0.00	0.00
23.00	0.00	0.00	0.00	74.00	0.00	0.00	0.00
24.00	0.00	0.00	0.00	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

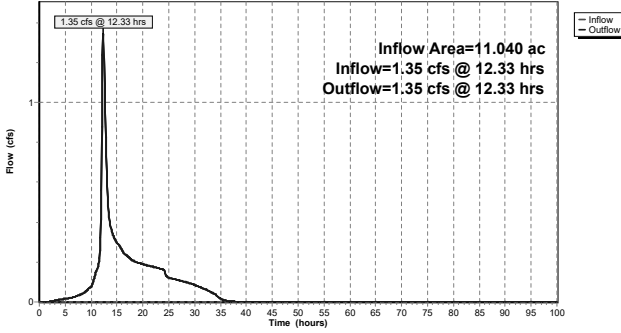
Summary for Reach 41R: P-POA

Inflow Area = 11.040 ac, 10.33% Impervious, Inflow Depth = 0.46" for 2-Year event
 Inflow = 1.35 cfs @ 12.33 hrs, Volume= 0.427 af
 Outflow = 1.35 cfs @ 12.33 hrs, Volume= 0.427 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 41R: P-POA

Hydrograph



Hydrograph for Reach 41R: P-POA

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.01	0.01	0.01	54.00	0.00	0.00	0.00
4.00	0.01	0.01	0.01	55.00	0.00	0.00	0.00
5.00	0.02	0.02	0.02	56.00	0.00	0.00	0.00
6.00	0.02	0.02	0.02	57.00	0.00	0.00	0.00
7.00	0.03	0.03	0.03	58.00	0.00	0.00	0.00
8.00	0.04	0.04	0.04	59.00	0.00	0.00	0.00
9.00	0.05	0.05	0.05	60.00	0.00	0.00	0.00
10.00	0.08	0.08	0.08	61.00	0.00	0.00	0.00
11.00	0.15	0.15	0.15	62.00	0.00	0.00	0.00
12.00	0.56	0.56	0.56	63.00	0.00	0.00	0.00
13.00	0.65	0.65	0.65	64.00	0.00	0.00	0.00
14.00	0.35	0.35	0.35	65.00	0.00	0.00	0.00
15.00	0.30	0.30	0.30	66.00	0.00	0.00	0.00
16.00	0.26	0.26	0.26	67.00	0.00	0.00	0.00
17.00	0.23	0.23	0.23	68.00	0.00	0.00	0.00
18.00	0.21	0.21	0.21	69.00	0.00	0.00	0.00
19.00	0.20	0.20	0.20	70.00	0.00	0.00	0.00
20.00	0.19	0.19	0.19	71.00	0.00	0.00	0.00
21.00	0.18	0.18	0.18	72.00	0.00	0.00	0.00
22.00	0.18	0.18	0.18	73.00	0.00	0.00	0.00
23.00	0.17	0.17	0.17	74.00	0.00	0.00	0.00
24.00	0.16	0.16	0.16	75.00	0.00	0.00	0.00
25.00	0.12	0.12	0.12	76.00	0.00	0.00	0.00
26.00	0.11	0.11	0.11	77.00	0.00	0.00	0.00
27.00	0.11	0.11	0.11	78.00	0.00	0.00	0.00
28.00	0.10	0.10	0.10	79.00	0.00	0.00	0.00
29.00	0.09	0.09	0.09	80.00	0.00	0.00	0.00
30.00	0.09	0.09	0.09	81.00	0.00	0.00	0.00
31.00	0.08	0.08	0.08	82.00	0.00	0.00	0.00
32.00	0.06	0.06	0.06	83.00	0.00	0.00	0.00
33.00	0.05	0.05	0.05	84.00	0.00	0.00	0.00
34.00	0.04	0.04	0.04	85.00	0.00	0.00	0.00
35.00	0.02	0.02	0.02	86.00	0.00	0.00	0.00
36.00	0.01	0.01	0.01	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

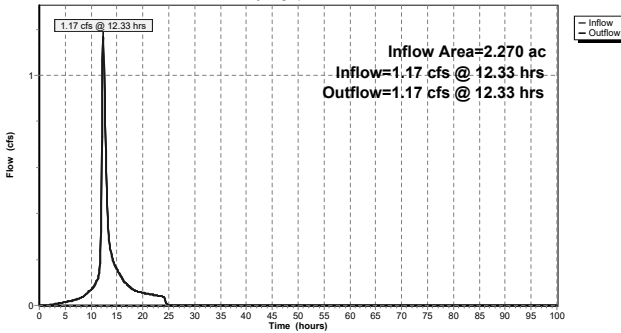
Summary for Reach 46R: P-100

Inflow Area = 2.270 ac, 22.47% Impervious, Inflow Depth = 1.07" for 2-Year event
 Inflow = 1.17 cfs @ 12.33 hrs, Volume= 0.202 af
 Outflow = 1.17 cfs @ 12.33 hrs, Volume= 0.202 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 46R: P-100

Hydrograph



Hydrograph for Reach 46R: P-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.01	0.01	0.01	54.00	0.00	0.00	0.00
4.00	0.01	0.01	0.01	55.00	0.00	0.00	0.00
5.00	0.01	0.01	0.01	56.00	0.00	0.00	0.00
6.00	0.02	0.02	0.02	57.00	0.00	0.00	0.00
7.00	0.03	0.03	0.03	58.00	0.00	0.00	0.00
8.00	0.03	0.03	0.03	59.00	0.00	0.00	0.00
9.00	0.05	0.05	0.05	60.00	0.00	0.00	0.00
10.00	0.07	0.07	0.07	61.00	0.00	0.00	0.00
11.00	0.10	0.10	0.10	62.00	0.00	0.00	0.00
12.00	0.45	0.45	0.45	63.00	0.00	0.00	0.00
13.00	0.50	0.50	0.50	64.00	0.00	0.00	0.00
14.00	0.21	0.21	0.21	65.00	0.00	0.00	0.00
15.00	0.16	0.16	0.16	66.00	0.00	0.00	0.00
16.00	0.12	0.12	0.12	67.00	0.00	0.00	0.00
17.00	0.09	0.09	0.09	68.00	0.00	0.00	0.00
18.00	0.07	0.07	0.07	69.00	0.00	0.00	0.00
19.00	0.06	0.06	0.06	70.00	0.00	0.00	0.00
20.00	0.05	0.05	0.05	71.00	0.00	0.00	0.00
21.00	0.05	0.05	0.05	72.00	0.00	0.00	0.00
22.00	0.05	0.05	0.05	73.00	0.00	0.00	0.00
23.00	0.04	0.04	0.04	74.00	0.00	0.00	0.00
24.00	0.04	0.04	0.04	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Pond 43P: P-200 Station 1450 Culvert

Inflow Area = 3.720 ac, 14.25% Impervious, Inflow Depth = 0.73" for 2-Year event
 Inflow = 0.87 cfs @ 12.58 hrs, Volume= 0.227 af
 Outflow = 0.14 cfs @ 16.67 hrs, Volume= 0.216 af, Atten= 84%, Lag= 245.3 min
 Discarded = 0.00 cfs @ 16.67 hrs, Volume= 0.006 af
 Primary = 0.14 cfs @ 16.67 hrs, Volume= 0.210 af

Routing by Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 147.53' @ 16.67 hrs Surf.Area= 8,646 sf Storage= 5,339 cf

Plug-Flow detention time= 506.5 min calculated for 0.216 af (95% of inflow)
 Center-of-Mass det. time= 482.6 min (1,353.2 - 870.6)

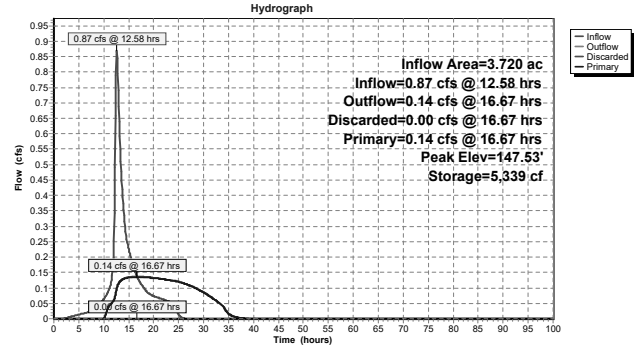
Volume #1	Invert	Avail.Storage	Storage Description
	143.50'	30,636 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.50	4	0	0
145.58	10	15	15
146.00	245	54	68
147.00	3,750	1,998	2,066
148.00	13,020	8,385	10,451
149.00	27,350	20,185	30,636

Device	Routing	Invert	Outlet Devices
#1	Discarded	143.50'	1,000 in/hr Exfiltration over Surface area below 145.60' Conductivity to Groundwater Elevation = 140.00'
#2	Primary	146.50'	2.0" x 2.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 2	145.58'	12.0" Round Culvert L= 60.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 145.58' / 145.00' S= 0.0097' / Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

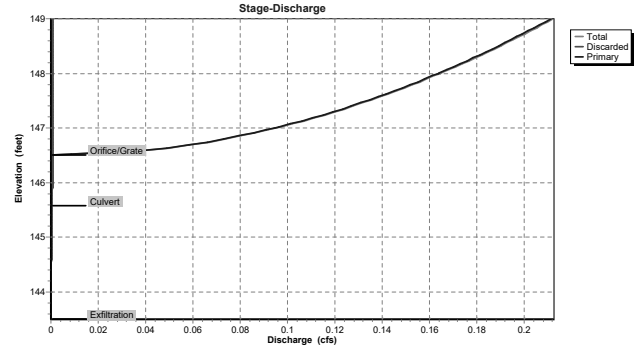
Discarded OutFlow Max=0.00 cfs @ 16.67 hrs HW=147.53' (Free Discharge)
 1=Exfiltration (Controls 0.00 cfs)

Primary OutFlow Max=0.14 cfs @ 16.67 hrs HW=147.53' (Free Discharge)
 2=Orifice/Grate (Orifice Controls 0.14 cfs @ 4.88 fps)
 3=Culvert (Passes 0.14 cfs of 3.47 cfs potential flow)

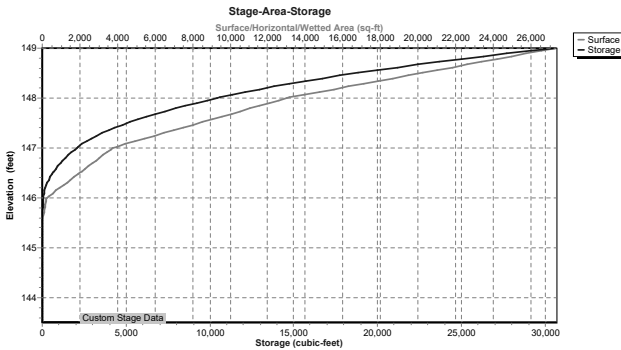
Pond 43P: P-200 Station 1450 Culvert



Pond 43P: P-200 Station 1450 Culvert



Pond 43P: P-200 Station 1450 Culvert



Hydrograph for Pond 43P: P-200 Station 1450 Culvert

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	143.50	0.00	0.00	0.00
2.00	0.00	1	143.65	0.00	0.00	0.00
4.00	0.01	33	145.82	0.00	0.00	0.00
6.00	0.02	125	146.12	0.00	0.00	0.00
8.00	0.03	291	146.29	0.00	0.00	0.00
10.00	0.06	616	146.49	0.00	0.00	0.00
12.00	0.25	1,117	146.71	0.06	0.00	0.06
14.00	0.35	4,582	147.44	0.13	0.00	0.13
16.00	0.17	5,308	147.52	0.14	0.00	0.14
18.00	0.10	5,252	147.52	0.14	0.00	0.13
20.00	0.07	4,888	147.47	0.13	0.00	0.13
22.00	0.06	4,431	147.42	0.13	0.00	0.13
24.00	0.05	3,927	147.35	0.12	0.00	0.12
26.00	0.00	3,203	147.23	0.12	0.00	0.11
28.00	0.00	2,418	147.08	0.10	0.00	0.10
30.00	0.00	1,735	146.91	0.09	0.00	0.09
32.00	0.00	1,188	146.73	0.07	0.00	0.06
34.00	0.00	810	146.58	0.04	0.00	0.04
36.00	0.00	670	146.52	0.01	0.00	0.01
38.00	0.00	638	146.50	0.00	0.00	0.00
40.00	0.00	629	146.50	0.00	0.00	0.00
42.00	0.00	624	146.50	0.00	0.00	0.00
44.00	0.00	619	146.50	0.00	0.00	0.00
46.00	0.00	614	146.49	0.00	0.00	0.00
48.00	0.00	609	146.49	0.00	0.00	0.00
50.00	0.00	604	146.49	0.00	0.00	0.00
52.00	0.00	600	146.49	0.00	0.00	0.00
54.00	0.00	595	146.48	0.00	0.00	0.00
56.00	0.00	590	146.48	0.00	0.00	0.00
58.00	0.00	585	146.48	0.00	0.00	0.00
60.00	0.00	580	146.48	0.00	0.00	0.00
62.00	0.00	575	146.47	0.00	0.00	0.00
64.00	0.00	571	146.47	0.00	0.00	0.00
66.00	0.00	566	146.47	0.00	0.00	0.00
68.00	0.00	561	146.46	0.00	0.00	0.00
70.00	0.00	556	146.46	0.00	0.00	0.00
72.00	0.00	551	146.46	0.00	0.00	0.00
74.00	0.00	546	146.46	0.00	0.00	0.00
76.00	0.00	542	146.45	0.00	0.00	0.00
78.00	0.00	537	146.45	0.00	0.00	0.00
80.00	0.00	532	146.45	0.00	0.00	0.00
82.00	0.00	527	146.45	0.00	0.00	0.00
84.00	0.00	522	146.44	0.00	0.00	0.00
86.00	0.00	518	146.44	0.00	0.00	0.00
88.00	0.00	513	146.44	0.00	0.00	0.00
90.00	0.00	508	146.44	0.00	0.00	0.00
92.00	0.00	503	146.43	0.00	0.00	0.00
94.00	0.00	498	146.43	0.00	0.00	0.00
96.00	0.00	493	146.43	0.00	0.00	0.00
98.00	0.00	489	146.42	0.00	0.00	0.00
100.00	0.00	484	146.42	0.00	0.00	0.00

Stage-Discharge for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
143.50	0.00	0.00	0.00	148.60	0.19	0.00	0.19
143.60	0.00	0.00	0.00	148.70	0.20	0.00	0.20
143.70	0.00	0.00	0.00	148.80	0.20	0.00	0.20
143.80	0.00	0.00	0.00	148.90	0.21	0.00	0.21
143.90	0.00	0.00	0.00	149.00	0.21	0.00	0.21
144.00	0.00	0.00	0.00				
144.10	0.00	0.00	0.00				
144.20	0.00	0.00	0.00				
144.30	0.00	0.00	0.00				
144.40	0.00	0.00	0.00				
144.50	0.00	0.00	0.00				
144.60	0.00	0.00	0.00				
144.70	0.00	0.00	0.00				
144.80	0.00	0.00	0.00				
144.90	0.00	0.00	0.00				
145.00	0.00	0.00	0.00				
145.10	0.00	0.00	0.00				
145.20	0.00	0.00	0.00				
145.30	0.00	0.00	0.00				
145.40	0.00	0.00	0.00				
145.50	0.00	0.00	0.00				
145.60	0.00	0.00	0.00				
145.70	0.00	0.00	0.00				
145.80	0.00	0.00	0.00				
145.90	0.00	0.00	0.00				
146.00	0.00	0.00	0.00				
146.10	0.00	0.00	0.00				
146.20	0.00	0.00	0.00				
146.30	0.00	0.00	0.00				
146.40	0.00	0.00	0.00				
146.50	0.00	0.00	0.00				
146.60	0.04	0.00	0.04				
146.70	0.06	0.00	0.06				
146.80	0.07	0.00	0.07				
146.90	0.09	0.00	0.08				
147.00	0.10	0.00	0.09				
147.10	0.10	0.00	0.10				
147.20	0.11	0.00	0.11				
147.30	0.12	0.00	0.12				
147.40	0.13	0.00	0.13				
147.50	0.13	0.00	0.13				
147.60	0.14	0.00	0.14				
147.70	0.15	0.00	0.15				
147.80	0.15	0.00	0.15				
147.90	0.16	0.00	0.16				
148.00	0.16	0.00	0.16				
148.10	0.17	0.00	0.17				
148.20	0.18	0.00	0.17				
148.30	0.18	0.00	0.18				
148.40	0.19	0.00	0.18				
148.50	0.19	0.00	0.19				

Stage-Area-Storage for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
143.50	4	0	148.60	21,618	20,842
143.60	4	0	148.70	23,051	23,075
143.70	5	1	148.80	24,484	25,452
143.80	5	1	148.90	25,917	27,972
143.90	5	2	149.00	27,350	30,636
144.00	5	2			
144.10	6	3			
144.20	6	4			
144.30	6	4			
144.40	7	5			
144.50	7	5			
144.60	7	6			
144.70	7	7			
144.80	8	8			
144.90	8	8			
145.00	8	9			
145.10	9	10			
145.20	9	11			
145.30	9	12			
145.40	9	13			
145.50	10	14			
145.60	21	15			
145.70	77	20			
145.80	133	30			
145.90	189	46			
146.00	245	68			
146.10	595	110			
146.20	946	187			
146.30	1,297	299			
146.40	1,647	447			
146.50	1,998	629			
146.60	2,348	846			
146.70	2,698	1,098			
146.80	3,049	1,386			
146.90	3,400	1,708			
147.00	3,750	2,066			
147.10	4,677	2,487			
147.20	5,604	3,001			
147.30	6,531	3,608			
147.40	7,458	4,307			
147.50	8,385	5,099			
147.60	9,312	5,984			
147.70	10,239	6,962			
147.80	11,166	8,032			
147.90	12,093	9,195			
148.00	13,020	10,451			
148.10	14,453	11,824			
148.20	15,886	13,341			
148.30	17,319	15,001			
148.40	18,752	16,805			
148.50	20,185	18,752			

Summary for Pond 44P: P-300 Rainwater Garden

Inflow Area = 1,590 ac, 2.52% Impervious, Inflow Depth = 0.15" for 2-Year event
 Inflow = 0.04 cfs @ 12.59 hrs, Volume= 0.019 af
 Outflow = 0.04 cfs @ 12.85 hrs, Volume= 0.019 af, Atten= 10%, Lag= 15.3 min
 Discarded = 0.04 cfs @ 12.85 hrs, Volume= 0.019 af
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 147.01' @ 12.85 hrs Surf.Area= 3,412 sf Storage= 33 cf

Plug-Flow detention time= 14.3 min calculated for 0.019 af (100% of inflow)
 Center-of-Mass det. time= 14.3 min (973.2 - 958.9)

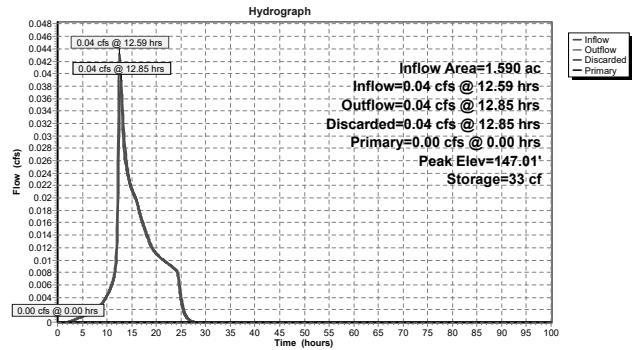
Volume	Invert	Avail.Storage	Storage Description
#1	147.00'	8,800 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.00	3,400	0	0
148.00	4,600	4,000	4,000
149.00	5,000	4,800	8,800

Device	Routing	Invert	Outlet Devices
#1	Discarded	147.00'	1,000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 140.00'
#2	Primary	147.16'	Asymmetrical Weir, C= 3.27 Offset (feet) 1,100.00 1,150.00 1,200.00 1,255.00 Elev. (feet) 148.00 147.16 147.91 148.00

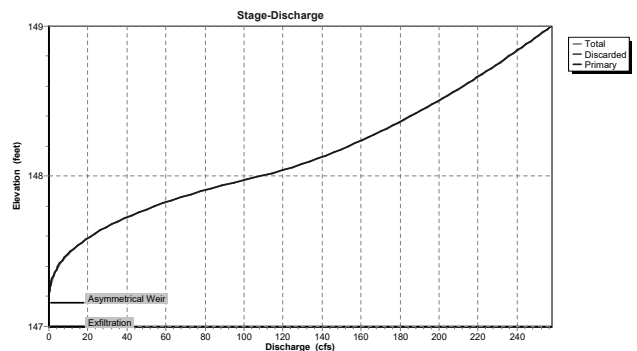
Discarded OutFlow Max=0.08 cfs @ 12.85 hrs HW=147.01' (Free Discharge)
 1=Exfiltration (Controls 0.08 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=147.00' (Free Discharge)
 2=Asymmetrical Weir (Controls 0.00 cfs)

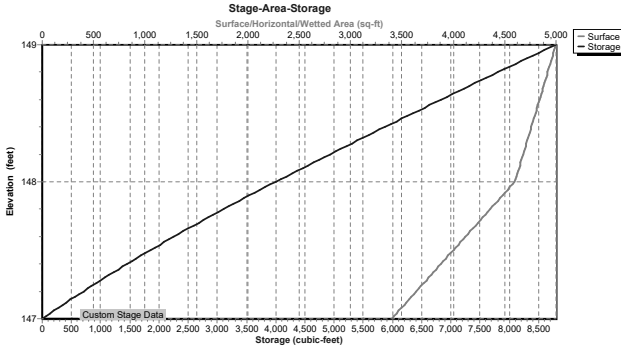
Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Hydrograph for Pond 44P: P-300 Rainwater Garden

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	147.00	0.00	0.00	0.00
2.00	0.00	0	147.00	0.00	0.00	0.00
4.00	0.00	0	147.00	0.00	0.00	0.00
6.00	0.00	1	147.00	0.00	0.00	0.00
8.00	0.00	2	147.00	0.00	0.00	0.00
10.00	0.00	4	147.00	0.00	0.00	0.00
12.00	0.01	9	147.00	0.01	0.01	0.00
14.00	0.02	22	147.01	0.03	0.03	0.00
16.00	0.02	17	147.00	0.02	0.02	0.00
18.00	0.01	12	147.00	0.01	0.01	0.00
20.00	0.01	10	147.00	0.01	0.01	0.00
22.00	0.01	8	147.00	0.01	0.01	0.00
24.00	0.01	7	147.00	0.01	0.01	0.00
26.00	0.00	1	147.00	0.00	0.00	0.00
28.00	0.00	0	147.00	0.00	0.00	0.00
30.00	0.00	0	147.00	0.00	0.00	0.00
32.00	0.00	0	147.00	0.00	0.00	0.00
34.00	0.00	0	147.00	0.00	0.00	0.00
36.00	0.00	0	147.00	0.00	0.00	0.00
38.00	0.00	0	147.00	0.00	0.00	0.00
40.00	0.00	0	147.00	0.00	0.00	0.00
42.00	0.00	0	147.00	0.00	0.00	0.00
44.00	0.00	0	147.00	0.00	0.00	0.00
46.00	0.00	0	147.00	0.00	0.00	0.00
48.00	0.00	0	147.00	0.00	0.00	0.00
50.00	0.00	0	147.00	0.00	0.00	0.00
52.00	0.00	0	147.00	0.00	0.00	0.00
54.00	0.00	0	147.00	0.00	0.00	0.00
56.00	0.00	0	147.00	0.00	0.00	0.00
58.00	0.00	0	147.00	0.00	0.00	0.00
60.00	0.00	0	147.00	0.00	0.00	0.00
62.00	0.00	0	147.00	0.00	0.00	0.00
64.00	0.00	0	147.00	0.00	0.00	0.00
66.00	0.00	0	147.00	0.00	0.00	0.00
68.00	0.00	0	147.00	0.00	0.00	0.00
70.00	0.00	0	147.00	0.00	0.00	0.00
72.00	0.00	0	147.00	0.00	0.00	0.00
74.00	0.00	0	147.00	0.00	0.00	0.00
76.00	0.00	0	147.00	0.00	0.00	0.00
78.00	0.00	0	147.00	0.00	0.00	0.00
80.00	0.00	0	147.00	0.00	0.00	0.00
82.00	0.00	0	147.00	0.00	0.00	0.00
84.00	0.00	0	147.00	0.00	0.00	0.00
86.00	0.00	0	147.00	0.00	0.00	0.00
88.00	0.00	0	147.00	0.00	0.00	0.00
90.00	0.00	0	147.00	0.00	0.00	0.00
92.00	0.00	0	147.00	0.00	0.00	0.00
94.00	0.00	0	147.00	0.00	0.00	0.00
96.00	0.00	0	147.00	0.00	0.00	0.00
98.00	0.00	0	147.00	0.00	0.00	0.00
100.00	0.00	0	147.00	0.00	0.00	0.00

Stage-Discharge for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
147.00	0.00	0.00	0.00	148.02	114.70	0.12	114.58
147.02	0.08	0.08	0.00	148.04	120.03	0.12	119.91
147.04	0.08	0.08	0.00	148.06	124.94	0.12	124.82
147.06	0.08	0.08	0.00	148.08	129.55	0.12	129.43
147.08	0.08	0.08	0.00	148.10	133.93	0.12	133.81
147.10	0.08	0.08	0.00	148.12	138.11	0.12	137.99
147.12	0.08	0.08	0.00	148.14	142.13	0.12	142.01
147.14	0.08	0.08	0.00	148.16	146.01	0.12	145.89
147.16	0.08	0.08	0.00	148.18	149.77	0.12	149.64
147.18	0.10	0.09	0.01	148.20	153.41	0.12	153.29
147.20	0.14	0.09	0.05	148.22	156.95	0.12	156.83
147.22	0.23	0.09	0.15	148.24	160.40	0.13	160.28
147.24	0.39	0.09	0.30	148.26	163.77	0.13	163.65
147.26	0.61	0.09	0.52	148.28	167.06	0.13	166.93
147.28	0.91	0.09	0.82	148.30	170.28	0.13	170.15
147.30	1.30	0.09	1.21	148.32	173.43	0.13	173.30
147.32	1.78	0.09	1.69	148.34	176.51	0.13	176.39
147.34	2.36	0.09	2.27	148.36	179.54	0.13	179.41
147.36	3.05	0.09	2.95	148.38	182.52	0.13	182.39
147.38	3.84	0.09	3.75	148.40	185.44	0.13	185.31
147.40	4.75	0.09	4.66	148.42	188.31	0.13	188.18
147.42	5.78	0.10	5.69	148.44	191.14	0.13	191.01
147.44	6.94	0.10	6.85	148.46	193.92	0.13	193.79
147.46	8.23	0.10	8.14	148.48	196.66	0.13	196.53
147.48	9.66	0.10	9.56	148.50	199.36	0.13	199.23
147.50	11.22	0.10	11.13	148.52	202.02	0.13	201.89
147.52	12.93	0.10	12.83	148.54	204.64	0.13	204.51
147.54	14.79	0.10	14.69	148.56	207.23	0.13	207.10
147.56	16.80	0.10	16.70	148.58	209.79	0.13	209.65
147.58	18.97	0.10	18.87	148.60	212.31	0.13	212.18
147.60	21.30	0.10	21.20	148.62	214.80	0.13	214.67
147.62	23.79	0.10	23.69	148.64	217.27	0.14	217.13
147.64	26.45	0.10	26.35	148.66	219.70	0.14	219.56
147.66	29.28	0.11	29.18	148.68	222.10	0.14	221.97
147.68	32.29	0.11	32.18	148.70	224.48	0.14	224.35
147.70	35.48	0.11	35.37	148.72	226.84	0.14	226.70
147.72	38.84	0.11	38.74	148.74	229.16	0.14	229.03
147.74	42.40	0.11	42.29	148.76	231.47	0.14	231.33
147.76	46.14	0.11	46.03	148.78	233.75	0.14	233.61
147.78	50.07	0.11	49.96	148.80	236.00	0.14	235.86
147.80	54.20	0.11	54.09	148.82	238.24	0.14	238.10
147.82	58.52	0.11	58.41	148.84	240.45	0.14	240.31
147.84	63.05	0.11	62.94	148.86	242.65	0.14	242.51
147.86	67.78	0.11	67.67	148.88	244.82	0.14	244.68
147.88	72.72	0.11	72.60	148.90	246.97	0.14	246.83
147.90	77.87	0.12	77.75	148.92	249.11	0.14	248.96
147.92	83.24	0.12	83.12	148.94	251.22	0.14	251.08
147.94	88.92	0.12	88.80	148.96	253.32	0.14	253.17
147.96	95.00	0.12	94.88	148.98	255.40	0.14	255.25
147.98	101.54	0.12	101.42	149.00	257.46	0.14	257.32
148.00	108.59	0.12	108.47				

Stage-Area-Storage for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.00	3,400	0	148.02	4,608	4,092
147.02	3,424	6	148.04	4,616	4,184
147.04	3,448	137	148.06	4,624	4,277
147.06	3,472	206	148.08	4,632	4,369
147.08	3,496	276	148.10	4,640	4,462
147.10	3,520	346	148.12	4,648	4,555
147.12	3,544	417	148.14	4,656	4,648
147.14	3,568	488	148.16	4,664	4,741
147.16	3,592	559	148.18	4,672	4,834
147.18	3,616	631	148.20	4,680	4,928
147.20	3,640	704	148.22	4,688	5,022
147.22	3,664	777	148.24	4,696	5,116
147.24	3,688	851	148.26	4,704	5,210
147.26	3,712	925	148.28	4,712	5,304
147.28	3,736	999	148.30	4,720	5,398
147.30	3,760	1,074	148.32	4,728	5,492
147.32	3,784	1,149	148.34	4,736	5,587
147.34	3,808	1,225	148.36	4,744	5,682
147.36	3,832	1,302	148.38	4,752	5,777
147.38	3,856	1,379	148.40	4,760	5,872
147.40	3,880	1,456	148.42	4,768	5,967
147.42	3,904	1,534	148.44	4,776	6,063
147.44	3,928	1,612	148.46	4,784	6,158
147.46	3,952	1,691	148.48	4,792	

Time span=0.00-100.00 hrs, dt=0.10 hrs, 1001 points
 Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: E-100 PERV	Runoff Area=2.270 ac 0.00% Impervious Runoff Depth=1.30" Flow Length=610' Tc=16.5 min CN=60 Runoff=1.55 cfs 0.246 af
Subcatchment2S: E-200 PERV	Runoff Area=3.720 ac 0.00% Impervious Runoff Depth=1.10" Flow Length=373' Tc=31.5 min CN=57 Runoff=1.46 cfs 0.342 af
Subcatchment3S: E-300 PERV	Runoff Area=1.590 ac 0.00% Impervious Runoff Depth=0.49" Flow Length=300' Slope=0.0100 1/100 Tc=40.2 min CN=46 Runoff=0.15 cfs 0.065 af
Subcatchment4S: E-400 PERV	Runoff Area=3.460 ac 0.00% Impervious Runoff Depth=0.11" Flow Length=150' Slope=0.0250 1/40 Tc=15.9 min CN=36 Runoff=0.05 cfs 0.031 af
Subcatchment45S: P-100 PERV	Runoff Area=1.760 ac 0.00% Impervious Runoff Depth=1.37" Flow Length=610' Tc=16.5 min CN=61 Runoff=1.28 cfs 0.201 af
Subcatchment46S: P-200 PERV	Runoff Area=3.190 ac 0.00% Impervious Runoff Depth=1.10" Flow Length=373' Tc=31.5 min CN=57 Runoff=1.25 cfs 0.294 af
Subcatchment47S: P-300 PERV	Runoff Area=1.550 ac 0.00% Impervious Runoff Depth=0.49" Flow Length=300' Slope=0.0100 1/100 Tc=40.2 min CN=46 Runoff=0.15 cfs 0.063 af
Subcatchment48S: P-400 PERV	Runoff Area=3.400 ac 0.00% Impervious Runoff Depth=0.11" Flow Length=150' Slope=0.0250 1/40 Tc=15.9 min CN=36 Runoff=0.05 cfs 0.031 af
Subcatchment49S: P-100 IMP	Runoff Area=0.510 ac 100.00% Impervious Runoff Depth=4.76" Flow Length=610' Tc=100.0 min CN=98 Runoff=1.31 cfs 0.202 af
Subcatchment50S: P-200 IMP	Runoff Area=0.530 ac 100.00% Impervious Runoff Depth=4.76" Flow Length=373' Tc=31.5 min CN=98 Runoff=1.00 cfs 0.210 af
Subcatchment51S: P-300 IMP	Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=4.76" Flow Length=300' Slope=0.0100 1/100 Tc=40.2 min CN=98 Runoff=0.07 cfs 0.016 af
Subcatchment52S: P-400 IMP	Runoff Area=0.060 ac 100.00% Impervious Runoff Depth=4.76" Flow Length=150' Slope=0.0250 1/40 Tc=15.9 min CN=98 Runoff=0.16 cfs 0.024 af
Reach 6R: E-100	Inflow=1.55 cfs 0.246 af Outflow=1.55 cfs 0.246 af
Reach 7R: E-200	Inflow=1.46 cfs 0.342 af Outflow=1.46 cfs 0.342 af
Reach 8R: E-300	Inflow=0.15 cfs 0.065 af Outflow=0.15 cfs 0.065 af
Reach 22R: E-400	Inflow=0.05 cfs 0.031 af Outflow=0.05 cfs 0.031 af

Reach 23R: E-POA "A"	Inflow=2.86 cfs 0.589 af Outflow=2.86 cfs 0.589 af
Reach 25R: E-POA "B"	Inflow=0.17 cfs 0.096 af Outflow=0.17 cfs 0.096 af
Reach 26R: E-POA	Inflow=2.95 cfs 0.685 af Outflow=2.95 cfs 0.685 af
Reach 38R: P-400	Inflow=0.16 cfs 0.055 af Outflow=0.16 cfs 0.055 af
Reach 39R: P-POA "A"	Inflow=2.68 cfs 0.889 af Outflow=2.68 cfs 0.889 af
Reach 40R: P-POA "B"	Inflow=0.16 cfs 0.059 af Outflow=0.16 cfs 0.059 af
Reach 41R: P-POA	Inflow=2.84 cfs 0.948 af Outflow=2.84 cfs 0.948 af
Reach 46R: P-100	Inflow=2.58 cfs 0.403 af Outflow=2.58 cfs 0.403 af
Pond 43P: P-200 Station 1450 Culvert	Peak Elev=148.26' Storage=14,383 cf Inflow=2.21 cfs 0.504 af Discarded=0.00 cfs 0.006 af Primary=0.18 cfs 0.486 af Outflow=0.18 cfs 0.492 af
Pond 44P: P-300 Rainwater Garden	Peak Elev=147.19' Storage=671 cf Inflow=0.21 cfs 0.079 af Discarded=0.09 cfs 0.075 af Primary=0.03 cfs 0.004 af Outflow=0.12 cfs 0.079 af
Total Runoff Area = 22.080 ac Runoff Volume = 1.725 af Average Runoff Depth = 0.94" 94.84% Pervious = 20.940 ac 5.16% Impervious = 1.140 ac	

Summary for Subcatchment 1S: E-100 PERV

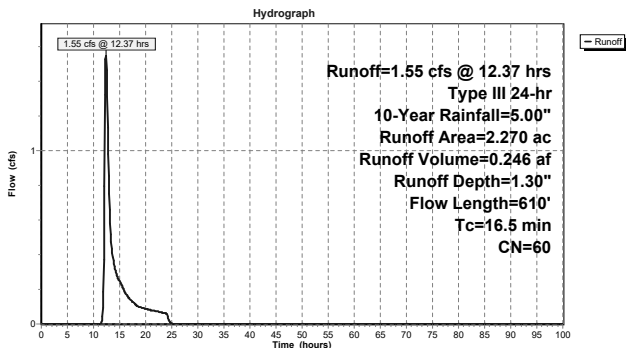
Runoff = 1.55 cfs @ 12.37 hrs, Volume= 0.246 af, Depth= 1.30"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
0.420	55	Woods, Good, HSG B
1.850	61	>75% Grass cover, Good, HSG B
2.270	60	Weighted Average
2.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 1S: E-100 PERV



Hydrograph for Subcatchment 1S: E-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	1.30	0.00
1.00	0.05	0.00	0.00	52.00	5.00	1.30	0.00
2.00	0.10	0.00	0.00	53.00	5.00	1.30	0.00
3.00	0.15	0.00	0.00	54.00	5.00	1.30	0.00
4.00	0.22	0.00	0.00	55.00	5.00	1.30	0.00
5.00	0.28	0.00	0.00	56.00	5.00	1.30	0.00
6.00	0.38	0.00	0.00	57.00	5.00	1.30	0.00
7.00	0.45	0.00	0.00	58.00	5.00	1.30	0.00
8.00	0.57	0.00	0.00	59.00	5.00	1.30	0.00
9.00	0.73	0.00	0.00	60.00	5.00	1.30	0.00
10.00	0.95	0.00	0.00	61.00	5.00	1.30	0.00
11.00	1.25	0.00	0.00	62.00	5.00	1.30	0.00
12.00	2.50	0.17	0.37	63.00	5.00	1.30	0.00
13.00	3.75	0.64	0.75	64.00	5.00	1.30	0.00
14.00	4.06	0.79	0.33	65.00	5.00	1.30	0.00
15.00	4.27	0.90	0.25	66.00	5.00	1.30	0.00
16.00	4.43	0.98	0.19	67.00	5.00	1.30	0.00
17.00	4.55	1.05	0.14	68.00	5.00	1.30	0.00
18.00	4.64	1.10	0.11	69.00	5.00	1.30	0.00
19.00	4.72	1.14	0.10	70.00	5.00	1.30	0.00
20.00	4.79	1.18	0.09	71.00	5.00	1.30	0.00
21.00	4.85	1.21	0.08	72.00	5.00	1.30	0.00
22.00	4.90	1.25	0.07	73.00	5.00	1.30	0.00
23.00	4.95	1.27	0.07	74.00	5.00	1.30	0.00
24.00	5.00	1.30	0.06	75.00	5.00	1.30	0.00
25.00	5.00	1.30	0.00	76.00	5.00	1.30	0.00
26.00	5.00	1.30	0.00	77.00	5.00	1.30	0.00
27.00	5.00	1.30	0.00	78.00	5.00	1.30	0.00
28.00	5.00	1.30	0.00	79.00	5.00	1.30	0.00
29.00	5.00	1.30	0.00	80.00	5.00	1.30	0.00
30.00	5.00	1.30	0.00	81.00	5.00	1.30	0.00
31.00	5.00	1.30	0.00	82.00	5.00	1.30	0.00
32.00	5.00	1.30	0.00	83.00	5.00	1.30	0.00
33.00	5.00	1.30	0.00	84.00	5.00	1.30	0.00
34.00	5.00	1.30	0.00	85.00	5.00	1.30	0.00
35.00	5.00	1.30	0.00	86.00	5.00	1.30	0.00
36.00	5.00	1.30	0.00	87.00	5.00	1.30	0.00
37.00	5.00	1.30	0.00	88.00	5.00	1.30	0.00
38.00	5.00	1.30	0.00	89.00	5.00	1.30	0.00
39.00	5.00	1.30	0.00	90.00	5.00	1.30	0.00
40.00	5.00	1.30	0.00	91.00	5.00	1.30	0.00
41.00	5.00	1.30	0.00	92.00	5.00	1.30	0.00
42.00	5.00	1.30	0.00	93.00	5.00	1.30	0.00
43.00	5.00	1.30	0.00	94.00	5.00	1.30	0.00
44.00	5.00	1.30	0.00	95.00	5.00	1.30	0.00
45.00	5.00	1.30	0.00	96.00	5.00	1.30	0.00
46.00	5.00	1.30	0.00	97.00	5.00	1.30	0.00
47.00	5.00	1.30	0.00	98.00	5.00	1.30	0.00
48.00	5.00	1.30	0.00	99.00	5.00	1.30	0.00
49.00	5.00	1.30	0.00	100.00	5.00	1.30	0.00
50.00	5.00	1.30	0.00				

Summary for Subcatchment 2S: E-200 PERV

Runoff = 1.46 cfs @ 12.63 hrs, Volume= 0.342 af, Depth= 1.10"

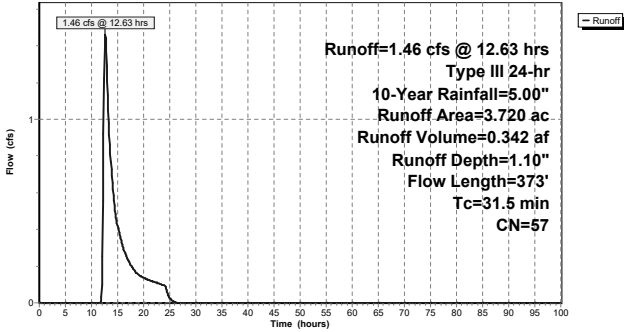
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
2.400	55	Woods, Good, HSG B
0.010	30	Woods, Good, HSG A
1.310	61	>75% Grass cover, Good, HSG B
3.720	57	Weighted Average
3.720		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373	Total			

Subcatchment 2S: E-200 PERV

Hydrograph



Hydrograph for Subcatchment 2S: E-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	1.10	0.00
1.00	0.05	0.00	0.00	52.00	5.00	1.10	0.00
2.00	0.10	0.00	0.00	53.00	5.00	1.10	0.00
3.00	0.15	0.00	0.00	54.00	5.00	1.10	0.00
4.00	0.22	0.00	0.00	55.00	5.00	1.10	0.00
5.00	0.28	0.00	0.00	56.00	5.00	1.10	0.00
6.00	0.36	0.00	0.00	57.00	5.00	1.10	0.00
7.00	0.45	0.00	0.00	58.00	5.00	1.10	0.00
8.00	0.57	0.00	0.00	59.00	5.00	1.10	0.00
9.00	0.73	0.00	0.00	60.00	5.00	1.10	0.00
10.00	0.95	0.00	0.00	61.00	5.00	1.10	0.00
11.00	1.25	0.00	0.00	62.00	5.00	1.10	0.00
12.00	2.50	0.12	0.10	63.00	5.00	1.10	0.00
13.00	3.75	0.51	1.20	64.00	5.00	1.10	0.00
14.00	4.06	0.64	0.65	65.00	5.00	1.10	0.00
15.00	4.27	0.74	0.42	66.00	5.00	1.10	0.00
16.00	4.43	0.82	0.31	67.00	5.00	1.10	0.00
17.00	4.55	0.87	0.23	68.00	5.00	1.10	0.00
18.00	4.64	0.92	0.19	69.00	5.00	1.10	0.00
19.00	4.72	0.96	0.15	70.00	5.00	1.10	0.00
20.00	4.79	0.99	0.14	71.00	5.00	1.10	0.00
21.00	4.85	1.02	0.12	72.00	5.00	1.10	0.00
22.00	4.90	1.05	0.11	73.00	5.00	1.10	0.00
23.00	4.95	1.08	0.10	74.00	5.00	1.10	0.00
24.00	5.00	1.10	0.09	75.00	5.00	1.10	0.00
25.00	5.00	1.10	0.03	76.00	5.00	1.10	0.00
26.00	5.00	1.10	0.00	77.00	5.00	1.10	0.00
27.00	5.00	1.10	0.00	78.00	5.00	1.10	0.00
28.00	5.00	1.10	0.00	79.00	5.00	1.10	0.00
29.00	5.00	1.10	0.00	80.00	5.00	1.10	0.00
30.00	5.00	1.10	0.00	81.00	5.00	1.10	0.00
31.00	5.00	1.10	0.00	82.00	5.00	1.10	0.00
32.00	5.00	1.10	0.00	83.00	5.00	1.10	0.00
33.00	5.00	1.10	0.00	84.00	5.00	1.10	0.00
34.00	5.00	1.10	0.00	85.00	5.00	1.10	0.00
35.00	5.00	1.10	0.00	86.00	5.00	1.10	0.00
36.00	5.00	1.10	0.00	87.00	5.00	1.10	0.00
37.00	5.00	1.10	0.00	88.00	5.00	1.10	0.00
38.00	5.00	1.10	0.00	89.00	5.00	1.10	0.00
39.00	5.00	1.10	0.00	90.00	5.00	1.10	0.00
40.00	5.00	1.10	0.00	91.00	5.00	1.10	0.00
41.00	5.00	1.10	0.00	92.00	5.00	1.10	0.00
42.00	5.00	1.10	0.00	93.00	5.00	1.10	0.00
43.00	5.00	1.10	0.00	94.00	5.00	1.10	0.00
44.00	5.00	1.10	0.00	95.00	5.00	1.10	0.00
45.00	5.00	1.10	0.00	96.00	5.00	1.10	0.00
46.00	5.00	1.10	0.00	97.00	5.00	1.10	0.00
47.00	5.00	1.10	0.00	98.00	5.00	1.10	0.00
48.00	5.00	1.10	0.00	99.00	5.00	1.10	0.00
49.00	5.00	1.10	0.00	100.00	5.00	1.10	0.00
50.00	5.00	1.10	0.00				

Summary for Subcatchment 3S: E-300 PERV

Runoff = 0.15 cfs @ 12.99 hrs, Volume= 0.065 af, Depth= 0.49"

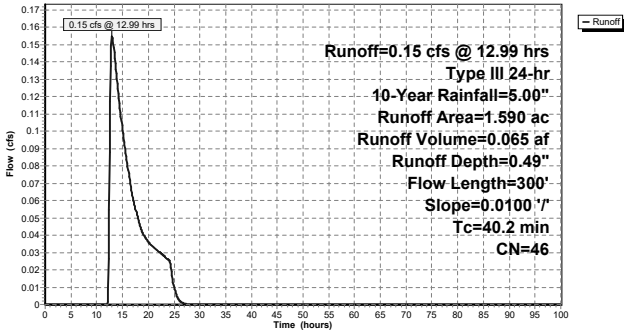
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	Pasture/grassland/range, Good, HSG B
0.940	39	Pasture/grassland/range, Good, HSG A
1.590	46	Weighted Average
1.590		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300	Total			

Subcatchment 3S: E-300 PERV

Hydrograph



Hydrograph for Subcatchment 3S: E-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	0.49	0.00
1.00	0.05	0.00	0.00	52.00	5.00	0.49	0.00
2.00	0.10	0.00	0.00	53.00	5.00	0.49	0.00
3.00	0.15	0.00	0.00	54.00	5.00	0.49	0.00
4.00	0.22	0.00	0.00	55.00	5.00	0.49	0.00
5.00	0.28	0.00	0.00	56.00	5.00	0.49	0.00
6.00	0.36	0.00	0.00	57.00	5.00	0.49	0.00
7.00	0.45	0.00	0.00	58.00	5.00	0.49	0.00
8.00	0.57	0.00	0.00	59.00	5.00	0.49	0.00
9.00	0.73	0.00	0.00	60.00	5.00	0.49	0.00
10.00	0.95	0.00	0.00	61.00	5.00	0.49	0.00
11.00	1.25	0.00	0.00	62.00	5.00	0.49	0.00
12.00	2.50	0.00	0.00	63.00	5.00	0.49	0.00
13.00	3.75	0.15	0.15	64.00	5.00	0.49	0.00
14.00	4.06	0.22	0.13	65.00	5.00	0.49	0.00
15.00	4.27	0.27	0.10	66.00	5.00	0.49	0.00
16.00	4.43	0.31	0.08	67.00	5.00	0.49	0.00
17.00	4.55	0.35	0.06	68.00	5.00	0.49	0.00
18.00	4.64	0.37	0.05	69.00	5.00	0.49	0.00
19.00	4.72	0.40	0.04	70.00	5.00	0.49	0.00
20.00	4.79	0.42	0.04	71.00	5.00	0.49	0.00
21.00	4.85	0.44	0.03	72.00	5.00	0.49	0.00
22.00	4.90	0.46	0.03	73.00	5.00	0.49	0.00
23.00	4.95	0.47	0.03	74.00	5.00	0.49	0.00
24.00	5.00	0.49	0.03	75.00	5.00	0.49	0.00
25.00	5.00	0.49	0.01	76.00	5.00	0.49	0.00
26.00	5.00	0.49	0.00	77.00	5.00	0.49	0.00
27.00	5.00	0.49	0.00	78.00	5.00	0.49	0.00
28.00	5.00	0.49	0.00	79.00	5.00	0.49	0.00
29.00	5.00	0.49	0.00	80.00	5.00	0.49	0.00
30.00	5.00	0.49	0.00	81.00	5.00	0.49	0.00
31.00	5.00	0.49	0.00	82.00	5.00	0.49	0.00
32.00	5.00	0.49	0.00	83.00	5.00	0.49	0.00
33.00	5.00	0.49	0.00	84.00	5.00	0.49	0.00
34.00	5.00	0.49	0.00	85.00	5.00	0.49	0.00
35.00	5.00	0.49	0.00	86.00	5.00	0.49	0.00
36.00	5.00	0.49	0.00	87.00	5.00	0.49	0.00
37.00	5.00	0.49	0.00	88.00	5.00	0.49	0.00
38.00	5.00	0.49	0.00	89.00	5.00	0.49	0.00
39.00	5.00	0.49	0.00	90.00	5.00	0.49	0.00
40.00	5.00	0.49	0.00	91.00	5.00	0.49	0.00
41.00	5.00	0.49	0.00	92.00	5.00	0.49	0.00
42.00	5.00	0.49	0.00	93.00	5.00	0.49	0.00
43.00	5.00	0.49	0.00	94.00	5.00	0.49	0.00
44.00	5.00	0.49	0.00	95.00	5.00	0.49	0.00
45.00	5.00	0.49	0.00	96.00	5.00	0.49	0.00
46.00	5.00	0.49	0.00	97.00	5.00	0.49	0.00
47.00	5.00	0.49	0.00	98.00	5.00	0.49	0.00
48.00	5.00	0.49	0.00	99.00	5.00	0.49	0.00
49.00	5.00	0.49	0.00	100.00	5.00	0.49	0.00
50.00	5.00	0.49	0.00				

Summary for Subcatchment 4S: E-400 PERV

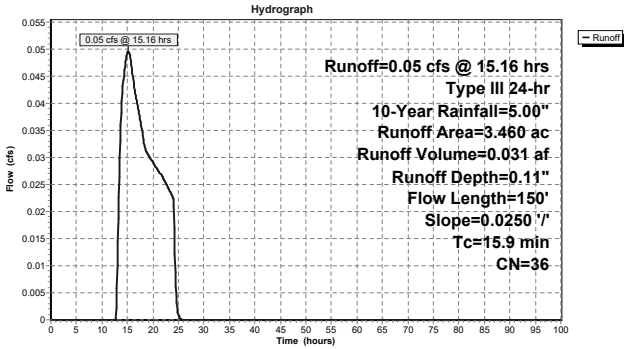
Runoff = 0.05 cfs @ 15.16 hrs, Volume= 0.031 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.980	39	Pasture/grassland/range_Good, HSG A
3.460	36	Weighted Average
3.460		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150	Total			

Subcatchment 4S: E-400 PERV



Hydrograph for Subcatchment 4S: E-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	0.11	0.00
1.00	0.05	0.00	0.00	52.00	5.00	0.11	0.00
2.00	0.10	0.00	0.00	53.00	5.00	0.11	0.00
3.00	0.15	0.00	0.00	54.00	5.00	0.11	0.00
4.00	0.22	0.00	0.00	55.00	5.00	0.11	0.00
5.00	0.28	0.00	0.00	56.00	5.00	0.11	0.00
6.00	0.36	0.00	0.00	57.00	5.00	0.11	0.00
7.00	0.45	0.00	0.00	58.00	5.00	0.11	0.00
8.00	0.57	0.00	0.00	59.00	5.00	0.11	0.00
9.00	0.73	0.00	0.00	60.00	5.00	0.11	0.00
10.00	0.95	0.00	0.00	61.00	5.00	0.11	0.00
11.00	1.25	0.00	0.00	62.00	5.00	0.11	0.00
12.00	2.50	0.00	0.00	63.00	5.00	0.11	0.00
13.00	3.75	0.00	0.01	64.00	5.00	0.11	0.00
14.00	4.06	0.01	0.04	65.00	5.00	0.11	0.00
15.00	4.27	0.03	0.05	66.00	5.00	0.11	0.00
16.00	4.43	0.04	0.05	67.00	5.00	0.11	0.00
17.00	4.55	0.05	0.04	68.00	5.00	0.11	0.00
18.00	4.64	0.06	0.03	69.00	5.00	0.11	0.00
19.00	4.72	0.07	0.03	70.00	5.00	0.11	0.00
20.00	4.79	0.08	0.03	71.00	5.00	0.11	0.00
21.00	4.85	0.09	0.03	72.00	5.00	0.11	0.00
22.00	4.90	0.10	0.03	73.00	5.00	0.11	0.00
23.00	4.95	0.10	0.02	74.00	5.00	0.11	0.00
24.00	5.00	0.11	0.02	75.00	5.00	0.11	0.00
25.00	5.00	0.11	0.00	76.00	5.00	0.11	0.00
26.00	5.00	0.11	0.00	77.00	5.00	0.11	0.00
27.00	5.00	0.11	0.00	78.00	5.00	0.11	0.00
28.00	5.00	0.11	0.00	79.00	5.00	0.11	0.00
29.00	5.00	0.11	0.00	80.00	5.00	0.11	0.00
30.00	5.00	0.11	0.00	81.00	5.00	0.11	0.00
31.00	5.00	0.11	0.00	82.00	5.00	0.11	0.00
32.00	5.00	0.11	0.00	83.00	5.00	0.11	0.00
33.00	5.00	0.11	0.00	84.00	5.00	0.11	0.00
34.00	5.00	0.11	0.00	85.00	5.00	0.11	0.00
35.00	5.00	0.11	0.00	86.00	5.00	0.11	0.00
36.00	5.00	0.11	0.00	87.00	5.00	0.11	0.00
37.00	5.00	0.11	0.00	88.00	5.00	0.11	0.00
38.00	5.00	0.11	0.00	89.00	5.00	0.11	0.00
39.00	5.00	0.11	0.00	90.00	5.00	0.11	0.00
40.00	5.00	0.11	0.00	91.00	5.00	0.11	0.00
41.00	5.00	0.11	0.00	92.00	5.00	0.11	0.00
42.00	5.00	0.11	0.00	93.00	5.00	0.11	0.00
43.00	5.00	0.11	0.00	94.00	5.00	0.11	0.00
44.00	5.00	0.11	0.00	95.00	5.00	0.11	0.00
45.00	5.00	0.11	0.00	96.00	5.00	0.11	0.00
46.00	5.00	0.11	0.00	97.00	5.00	0.11	0.00
47.00	5.00	0.11	0.00	98.00	5.00	0.11	0.00
48.00	5.00	0.11	0.00	99.00	5.00	0.11	0.00
49.00	5.00	0.11	0.00	100.00	5.00	0.11	0.00
50.00	5.00	0.11	0.00				

Summary for Subcatchment 45S: P-100 PERV

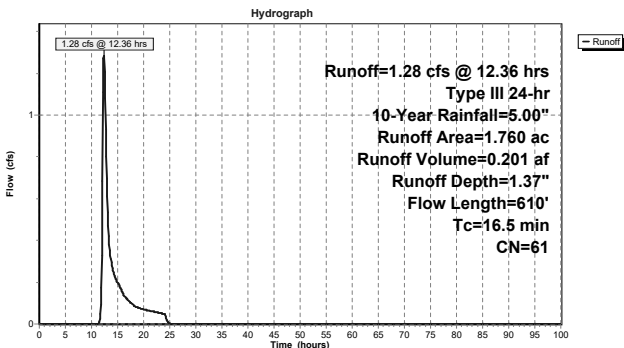
Runoff = 1.28 cfs @ 12.36 hrs, Volume= 0.201 af, Depth= 1.37"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
0.130	55	Woods, Good, HSG B
1.630	61	>75% Grass cover, Good, HSG B
1.760	61	Weighted Average
1.760		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610	Total			

Subcatchment 45S: P-100 PERV



Hydrograph for Subcatchment 45S: P-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	1.37	0.00
1.00	0.05	0.00	0.00	52.00	5.00	1.37	0.00
2.00	0.10	0.00	0.00	53.00	5.00	1.37	0.00
3.00	0.15	0.00	0.00	54.00	5.00	1.37	0.00
4.00	0.22	0.00	0.00	55.00	5.00	1.37	0.00
5.00	0.28	0.00	0.00	56.00	5.00	1.37	0.00
6.00	0.36	0.00	0.00	57.00	5.00	1.37	0.00
7.00	0.45	0.00	0.00	58.00	5.00	1.37	0.00
8.00	0.57	0.00	0.00	59.00	5.00	1.37	0.00
9.00	0.73	0.00	0.00	60.00	5.00	1.37	0.00
10.00	0.95	0.00	0.00	61.00	5.00	1.37	0.00
11.00	1.25	0.00	0.00	62.00	5.00	1.37	0.00
12.00	2.50	0.20	0.33	63.00	5.00	1.37	0.00
13.00	3.75	0.69	0.61	64.00	5.00	1.37	0.00
14.00	4.06	0.94	0.27	65.00	5.00	1.37	0.00
15.00	4.27	0.95	0.20	66.00	5.00	1.37	0.00
16.00	4.43	1.04	0.15	67.00	5.00	1.37	0.00
17.00	4.55	1.11	0.11	68.00	5.00	1.37	0.00
18.00	4.64	1.16	0.09	69.00	5.00	1.37	0.00
19.00	4.72	1.20	0.08	70.00	5.00	1.37	0.00
20.00	4.79	1.24	0.07	71.00	5.00	1.37	0.00
21.00	4.85	1.28	0.06	72.00	5.00	1.37	0.00
22.00	4.90	1.31	0.06	73.00	5.00	1.37	0.00
23.00	4.95	1.34	0.05	74.00	5.00	1.37	0.00
24.00	5.00	1.37	0.05	75.00	5.00	1.37	0.00
25.00	5.00	1.37	0.00	76.00	5.00	1.37	0.00
26.00	5.00	1.37	0.00	77.00	5.00	1.37	0.00
27.00	5.00	1.37	0.00	78.00	5.00	1.37	0.00
28.00	5.00	1.37	0.00	79.00	5.00	1.37	0.00
29.00	5.00	1.37	0.00	80.00	5.00	1.37	0.00
30.00	5.00	1.37	0.00	81.00	5.00	1.37	0.00
31.00	5.00	1.37	0.00	82.00	5.00	1.37	0.00
32.00	5.00	1.37	0.00	83.00	5.00	1.37	0.00
33.00	5.00	1.37	0.00	84.00	5.00	1.37	0.00
34.00	5.00	1.37	0.00	85.00	5.00	1.37	0.00
35.00	5.00	1.37	0.00	86.00	5.00	1.37	0.00
36.00	5.00	1.37	0.00	87.00	5.00	1.37	0.00
37.00	5.00	1.37	0.00	88.00	5.00	1.37	0.00
38.00	5.00	1.37	0.00	89.00	5.00	1.37	0.00
39.00	5.00	1.37	0.00	90.00	5.00	1.37	0.00
40.00	5.00	1.37	0.00	91.00	5.00	1.37	0.00
41.00	5.00	1.37	0.00	92.00	5.00	1.37	0.00
42.00	5.00	1.37	0.00	93.00	5.00	1.37	0.00
43.00	5.00	1.37	0.00	94.00	5.00	1.37	0.00
44.00	5.00	1.37	0.00	95.00	5.00	1.37	0.00
45.00	5.00	1.37	0.00	96.00	5.00	1.37	0.00
46.00	5.00	1.37	0.00	97.00	5.00	1.37	0.00
47.00	5.00	1.37	0.00	98.00	5.00	1.37	0.00
48.00	5.00	1.37	0.00	99.00	5.00	1.37	0.00
49.00	5.00	1.37	0.00	100.00	5.00	1.37	0.00
50.00	5.00	1.37	0.00				

Summary for Subcatchment 46S: P-200 PERV

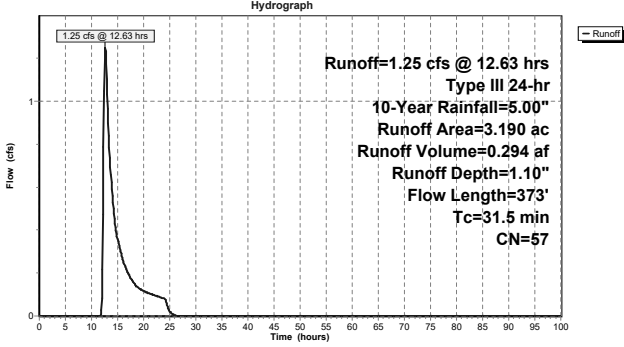
Runoff = 1.25 cfs @ 12.63 hrs, Volume= 0.294 af, Depth= 1.10"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
2.070	55	Woods, Good, HSG B
0.000	30	Woods, Good, HSG A
1.110	61	>75% Grass cover, Good, HSG B
0.010	39	>75% Grass cover, Good, HSG A
3.190	57	Weighted Average
3.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 46S: P-200 PERV



Hydrograph for Subcatchment 46S: P-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	1.10	0.00
1.00	0.05	0.00	0.00	52.00	5.00	1.10	0.00
2.00	0.10	0.00	0.00	53.00	5.00	1.10	0.00
3.00	0.15	0.00	0.00	54.00	5.00	1.10	0.00
4.00	0.22	0.00	0.00	55.00	5.00	1.10	0.00
5.00	0.28	0.00	0.00	56.00	5.00	1.10	0.00
6.00	0.36	0.00	0.00	57.00	5.00	1.10	0.00
7.00	0.45	0.00	0.00	58.00	5.00	1.10	0.00
8.00	0.57	0.00	0.00	59.00	5.00	1.10	0.00
9.00	0.73	0.00	0.00	60.00	5.00	1.10	0.00
10.00	0.95	0.00	0.00	61.00	5.00	1.10	0.00
11.00	1.25	0.00	0.00	62.00	5.00	1.10	0.00
12.00	2.50	0.12	0.08	63.00	5.00	1.10	0.00
13.00	3.75	0.51	1.03	64.00	5.00	1.10	0.00
14.00	4.06	0.64	0.56	65.00	5.00	1.10	0.00
15.00	4.27	0.74	0.36	66.00	5.00	1.10	0.00
16.00	4.43	0.82	0.27	67.00	5.00	1.10	0.00
17.00	4.55	0.87	0.20	68.00	5.00	1.10	0.00
18.00	4.64	0.92	0.16	69.00	5.00	1.10	0.00
19.00	4.72	0.96	0.13	70.00	5.00	1.10	0.00
20.00	4.79	0.99	0.12	71.00	5.00	1.10	0.00
21.00	4.85	1.02	0.11	72.00	5.00	1.10	0.00
22.00	4.90	1.05	0.10	73.00	5.00	1.10	0.00
23.00	4.95	1.08	0.09	74.00	5.00	1.10	0.00
24.00	5.00	1.10	0.08	75.00	5.00	1.10	0.00
25.00	5.00	1.10	0.02	76.00	5.00	1.10	0.00
26.00	5.00	1.10	0.00	77.00	5.00	1.10	0.00
27.00	5.00	1.10	0.00	78.00	5.00	1.10	0.00
28.00	5.00	1.10	0.00	79.00	5.00	1.10	0.00
29.00	5.00	1.10	0.00	80.00	5.00	1.10	0.00
30.00	5.00	1.10	0.00	81.00	5.00	1.10	0.00
31.00	5.00	1.10	0.00	82.00	5.00	1.10	0.00
32.00	5.00	1.10	0.00	83.00	5.00	1.10	0.00
33.00	5.00	1.10	0.00	84.00	5.00	1.10	0.00
34.00	5.00	1.10	0.00	85.00	5.00	1.10	0.00
35.00	5.00	1.10	0.00	86.00	5.00	1.10	0.00
36.00	5.00	1.10	0.00	87.00	5.00	1.10	0.00
37.00	5.00	1.10	0.00	88.00	5.00	1.10	0.00
38.00	5.00	1.10	0.00	89.00	5.00	1.10	0.00
39.00	5.00	1.10	0.00	90.00	5.00	1.10	0.00
40.00	5.00	1.10	0.00	91.00	5.00	1.10	0.00
41.00	5.00	1.10	0.00	92.00	5.00	1.10	0.00
42.00	5.00	1.10	0.00	93.00	5.00	1.10	0.00
43.00	5.00	1.10	0.00	94.00	5.00	1.10	0.00
44.00	5.00	1.10	0.00	95.00	5.00	1.10	0.00
45.00	5.00	1.10	0.00	96.00	5.00	1.10	0.00
46.00	5.00	1.10	0.00	97.00	5.00	1.10	0.00
47.00	5.00	1.10	0.00	98.00	5.00	1.10	0.00
48.00	5.00	1.10	0.00	99.00	5.00	1.10	0.00
49.00	5.00	1.10	0.00	100.00	5.00	1.10	0.00
50.00	5.00	1.10	0.00				

Summary for Subcatchment 47S: P-300 PERV

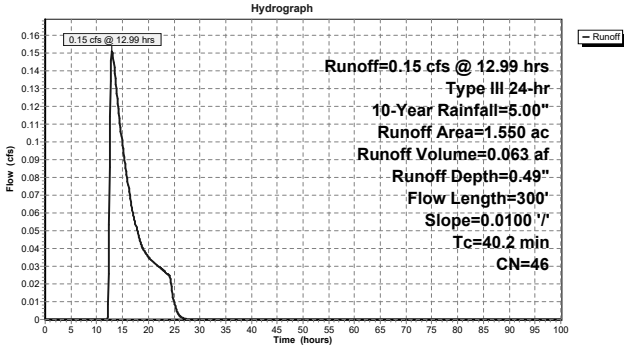
Runoff = 0.15 cfs @ 12.99 hrs, Volume= 0.063 af, Depth= 0.49"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	>75% Grass cover, Good, HSG B
0.900	39	>75% Grass cover, Good, HSG A
1.550	46	Weighted Average
1.550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 47S: P-300 PERV



Hydrograph for Subcatchment 47S: P-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	0.49	0.00
1.00	0.05	0.00	0.00	52.00	5.00	0.49	0.00
2.00	0.10	0.00	0.00	53.00	5.00	0.49	0.00
3.00	0.15	0.00	0.00	54.00	5.00	0.49	0.00
4.00	0.22	0.00	0.00	55.00	5.00	0.49	0.00
5.00	0.28	0.00	0.00	56.00	5.00	0.49	0.00
6.00	0.36	0.00	0.00	57.00	5.00	0.49	0.00
7.00	0.45	0.00	0.00	58.00	5.00	0.49	0.00
8.00	0.57	0.00	0.00	59.00	5.00	0.49	0.00
9.00	0.73	0.00	0.00	60.00	5.00	0.49	0.00
10.00	0.95	0.00	0.00	61.00	5.00	0.49	0.00
11.00	1.25	0.00	0.00	62.00	5.00	0.49	0.00
12.00	2.50	0.00	0.00	63.00	5.00	0.49	0.00
13.00	3.75	0.15	0.15	64.00	5.00	0.49	0.00
14.00	4.06	0.22	0.12	65.00	5.00	0.49	0.00
15.00	4.27	0.27	0.10	66.00	5.00	0.49	0.00
16.00	4.43	0.31	0.08	67.00	5.00	0.49	0.00
17.00	4.55	0.35	0.06	68.00	5.00	0.49	0.00
18.00	4.64	0.37	0.05	69.00	5.00	0.49	0.00
19.00	4.72	0.40	0.04	70.00	5.00	0.49	0.00
20.00	4.79	0.42	0.04	71.00	5.00	0.49	0.00
21.00	4.85	0.44	0.03	72.00	5.00	0.49	0.00
22.00	4.90	0.46	0.03	73.00	5.00	0.49	0.00
23.00	4.95	0.47	0.03	74.00	5.00	0.49	0.00
24.00	5.00	0.49	0.02	75.00	5.00	0.49	0.00
25.00	5.00	0.49	0.01	76.00	5.00	0.49	0.00
26.00	5.00	0.49	0.00	77.00	5.00	0.49	0.00
27.00	5.00	0.49	0.00	78.00	5.00	0.49	0.00
28.00	5.00	0.49	0.00	79.00	5.00	0.49	0.00
29.00	5.00	0.49	0.00	80.00	5.00	0.49	0.00
30.00	5.00	0.49	0.00	81.00	5.00	0.49	0.00
31.00	5.00	0.49	0.00	82.00	5.00	0.49	0.00
32.00	5.00	0.49	0.00	83.00	5.00	0.49	0.00
33.00	5.00	0.49	0.00	84.00	5.00	0.49	0.00
34.00	5.00	0.49	0.00	85.00	5.00	0.49	0.00
35.00	5.00	0.49	0.00	86.00	5.00	0.49	0.00
36.00	5.00	0.49	0.00	87.00	5.00	0.49	0.00
37.00	5.00	0.49	0.00	88.00	5.00	0.49	0.00
38.00	5.00	0.49	0.00	89.00	5.00	0.49	0.00
39.00	5.00	0.49	0.00	90.00	5.00	0.49	0.00
40.00	5.00	0.49	0.00	91.00	5.00	0.49	0.00
41.00	5.00	0.49	0.00	92.00	5.00	0.49	0.00
42.00	5.00	0.49	0.00	93.00	5.00	0.49	0.00
43.00	5.00	0.49	0.00	94.00	5.00	0.49	0.00
44.00	5.00	0.49	0.00	95.00	5.00	0.49	0.00
45.00	5.00	0.49	0.00	96.00	5.00	0.49	0.00
46.00	5.00	0.49	0.00	97.00	5.00	0.49	0.00
47.00	5.00	0.49	0.00	98.00	5.00	0.49	0.00
48.00	5.00	0.49	0.00	99.00	5.00	0.49	0.00
49.00	5.00	0.49	0.00	100.00	5.00	0.49	0.00
50.00	5.00	0.49	0.00				

Summary for Subcatchment 48S: P-400 PERV

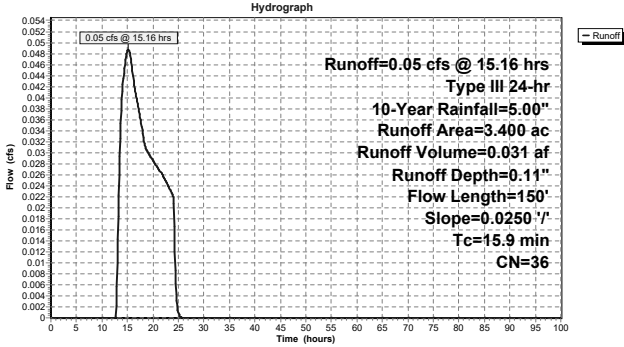
Runoff = 0.05 cfs @ 15.16 hrs, Volume= 0.031 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.920	39	>75% Grass cover, Good, HSG A
3.400	36	Weighted Average
3.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 48S: P-400 PERV



Hydrograph for Subcatchment 48S: P-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	0.11	0.00
1.00	0.05	0.00	0.00	52.00	5.00	0.11	0.00
2.00	0.10	0.00	0.00	53.00	5.00	0.11	0.00
3.00	0.15	0.00	0.00	54.00	5.00	0.11	0.00
4.00	0.22	0.00	0.00	55.00	5.00	0.11	0.00
5.00	0.28	0.00	0.00	56.00	5.00	0.11	0.00
6.00	0.36	0.00	0.00	57.00	5.00	0.11	0.00
7.00	0.45	0.00	0.00	58.00	5.00	0.11	0.00
8.00	0.57	0.00	0.00	59.00	5.00	0.11	0.00
9.00	0.73	0.00	0.00	60.00	5.00	0.11	0.00
10.00	0.95	0.00	0.00	61.00	5.00	0.11	0.00
11.00	1.25	0.00	0.00	62.00	5.00	0.11	0.00
12.00	2.50	0.00	0.00	63.00	5.00	0.11	0.00
13.00	3.75	0.00	0.01	64.00	5.00	0.11	0.00
14.00	4.06	0.01	0.04	65.00	5.00	0.11	0.00
15.00	4.27	0.03	0.05	66.00	5.00	0.11	0.00
16.00	4.43	0.04	0.04	67.00	5.00	0.11	0.00
17.00	4.55	0.05	0.04	68.00	5.00	0.11	0.00
18.00	4.64	0.06	0.03	69.00	5.00	0.11	0.00
19.00	4.72	0.07	0.03	70.00	5.00	0.11	0.00
20.00	4.79	0.08	0.03	71.00	5.00	0.11	0.00
21.00	4.85	0.09	0.03	72.00	5.00	0.11	0.00
22.00	4.90	0.10	0.03	73.00	5.00	0.11	0.00
23.00	4.95	0.10	0.02	74.00	5.00	0.11	0.00
24.00	5.00	0.11	0.02	75.00	5.00	0.11	0.00
25.00	5.00	0.11	0.00	76.00	5.00	0.11	0.00
26.00	5.00	0.11	0.00	77.00	5.00	0.11	0.00
27.00	5.00	0.11	0.00	78.00	5.00	0.11	0.00
28.00	5.00	0.11	0.00	79.00	5.00	0.11	0.00
29.00	5.00	0.11	0.00	80.00	5.00	0.11	0.00
30.00	5.00	0.11	0.00	81.00	5.00	0.11	0.00
31.00	5.00	0.11	0.00	82.00	5.00	0.11	0.00
32.00	5.00	0.11	0.00	83.00	5.00	0.11	0.00
33.00	5.00	0.11	0.00	84.00	5.00	0.11	0.00
34.00	5.00	0.11	0.00	85.00	5.00	0.11	0.00
35.00	5.00	0.11	0.00	86.00	5.00	0.11	0.00
36.00	5.00	0.11	0.00	87.00	5.00	0.11	0.00
37.00	5.00	0.11	0.00	88.00	5.00	0.11	0.00
38.00	5.00	0.11	0.00	89.00	5.00	0.11	0.00
39.00	5.00	0.11	0.00	90.00	5.00	0.11	0.00
40.00	5.00	0.11	0.00	91.00	5.00	0.11	0.00
41.00	5.00	0.11	0.00	92.00	5.00	0.11	0.00
42.00	5.00	0.11	0.00	93.00	5.00	0.11	0.00
43.00	5.00	0.11	0.00	94.00	5.00	0.11	0.00
44.00	5.00	0.11	0.00	95.00	5.00	0.11	0.00
45.00	5.00	0.11	0.00	96.00	5.00	0.11	0.00
46.00	5.00	0.11	0.00	97.00	5.00	0.11	0.00
47.00	5.00	0.11	0.00	98.00	5.00	0.11	0.00
48.00	5.00	0.11	0.00	99.00	5.00	0.11	0.00
49.00	5.00	0.11	0.00	100.00	5.00	0.11	0.00
50.00	5.00	0.11	0.00				

Summary for Subcatchment 49S: P-100 IMP

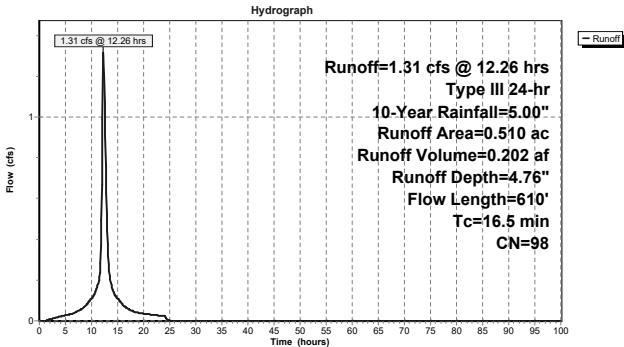
Runoff = 1.31 cfs @ 12.26 hrs, Volume= 0.202 af, Depth= 4.76"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
0.510	98	Unconnected pavement
0.510		100.00% Impervious Area
0.510		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 49S: P-100 IMP



Hydrograph for Subcatchment 49S: P-100 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	4.76	0.00
1.00	0.05	0.00	0.00	52.00	5.00	4.76	0.00
2.00	0.10	0.01	0.01	53.00	5.00	4.76	0.00
3.00	0.15	0.04	0.01	54.00	5.00	4.76	0.00
4.00	0.22	0.08	0.02	55.00	5.00	4.76	0.00
5.00	0.28	0.13	0.03	56.00	5.00	4.76	0.00
6.00	0.36	0.19	0.03	57.00	5.00	4.76	0.00
7.00	0.45	0.28	0.04	58.00	5.00	4.76	0.00
8.00	0.57	0.38	0.06	59.00	5.00	4.76	0.00
9.00	0.73	0.53	0.08	60.00	5.00	4.76	0.00
10.00	0.95	0.74	0.11	61.00	5.00	4.76	0.00
11.00	1.25	1.03	0.16	62.00	5.00	4.76	0.00
12.00	2.50	2.27	0.67	63.00	5.00	4.76	0.00
13.00	3.75	3.52	0.44	64.00	5.00	4.76	0.00
14.00	4.06	3.82	0.15	65.00	5.00	4.76	0.00
15.00	4.27	4.04	0.11	66.00	5.00	4.76	0.00
16.00	4.43	4.19	0.08	67.00	5.00	4.76	0.00
17.00	4.55	4.31	0.06	68.00	5.00	4.76	0.00
18.00	4.64	4.40	0.05	69.00	5.00	4.76	0.00
19.00	4.72	4.48	0.04	70.00	5.00	4.76	0.00
20.00	4.79	4.55	0.03	71.00	5.00	4.76	0.00
21.00	4.85	4.61	0.03	72.00	5.00	4.76	0.00
22.00	4.90	4.67	0.03	73.00	5.00	4.76	0.00
23.00	4.95	4.72	0.03	74.00	5.00	4.76	0.00
24.00	5.00	4.76	0.02	75.00	5.00	4.76	0.00
25.00	5.00	4.76	0.00	76.00	5.00	4.76	0.00
26.00	5.00	4.76	0.00	77.00	5.00	4.76	0.00
27.00	5.00	4.76	0.00	78.00	5.00	4.76	0.00
28.00	5.00	4.76	0.00	79.00	5.00	4.76	0.00
29.00	5.00	4.76	0.00	80.00	5.00	4.76	0.00
30.00	5.00	4.76	0.00	81.00	5.00	4.76	0.00
31.00	5.00	4.76	0.00	82.00	5.00	4.76	0.00
32.00	5.00	4.76	0.00	83.00	5.00	4.76	0.00
33.00	5.00	4.76	0.00	84.00	5.00	4.76	0.00
34.00	5.00	4.76	0.00	85.00	5.00	4.76	0.00
35.00	5.00	4.76	0.00	86.00	5.00	4.76	0.00
36.00	5.00	4.76	0.00	87.00	5.00	4.76	0.00
37.00	5.00	4.76	0.00	88.00	5.00	4.76	0.00
38.00	5.00	4.76	0.00	89.00	5.00	4.76	0.00
39.00	5.00	4.76	0.00	90.00	5.00	4.76	0.00
40.00	5.00	4.76	0.00	91.00	5.00	4.76	0.00
41.00	5.00	4.76	0.00	92.00	5.00	4.76	0.00
42.00	5.00	4.76	0.00	93.00	5.00	4.76	0.00
43.00	5.00	4.76	0.00	94.00	5.00	4.76	0.00
44.00	5.00	4.76	0.00	95.00	5.00	4.76	0.00
45.00	5.00	4.76	0.00	96.00	5.00	4.76	0.00
46.00	5.00	4.76	0.00	97.00	5.00	4.76	0.00
47.00	5.00	4.76	0.00	98.00	5.00	4.76	0.00
48.00	5.00	4.76	0.00	99.00	5.00	4.76	0.00
49.00	5.00	4.76	0.00	100.00	5.00	4.76	0.00
50.00	5.00	4.76	0.00				

Summary for Subcatchment 50S: P-200 IMP

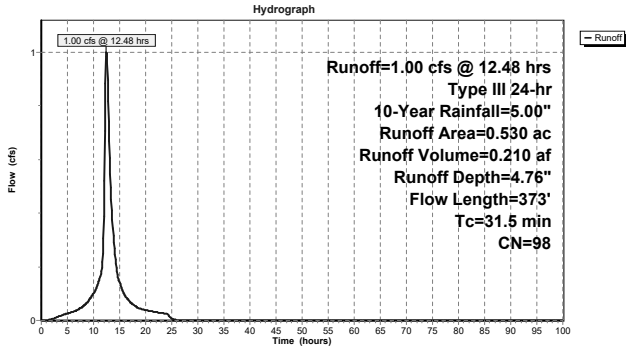
Runoff = 1.00 cfs @ 12.48 hrs, Volume= 0.210 af, Depth= 4.76"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
* 0.530	98	Unconnected pavement
0.530		100.00% Impervious Area
0.530		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373	Total			

Subcatchment 50S: P-200 IMP



Hydrograph for Subcatchment 50S: P-200 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	4.76	0.00
1.00	0.05	0.00	0.00	52.00	5.00	4.76	0.00
2.00	0.10	0.01	0.00	53.00	5.00	4.76	0.00
3.00	0.15	0.04	0.01	54.00	5.00	4.76	0.00
4.00	0.22	0.08	0.02	55.00	5.00	4.76	0.00
5.00	0.28	0.13	0.03	56.00	5.00	4.76	0.00
6.00	0.36	0.19	0.03	57.00	5.00	4.76	0.00
7.00	0.45	0.28	0.04	58.00	5.00	4.76	0.00
8.00	0.57	0.38	0.05	59.00	5.00	4.76	0.00
9.00	0.73	0.53	0.07	60.00	5.00	4.76	0.00
10.00	0.95	0.74	0.10	61.00	5.00	4.76	0.00
11.00	1.25	1.03	0.14	62.00	5.00	4.76	0.00
12.00	2.50	2.27	0.39	63.00	5.00	4.76	0.00
13.00	3.75	3.52	0.67	64.00	5.00	4.76	0.00
14.00	4.06	3.82	0.27	65.00	5.00	4.76	0.00
15.00	4.27	4.04	0.14	66.00	5.00	4.76	0.00
16.00	4.43	4.19	0.09	67.00	5.00	4.76	0.00
17.00	4.55	4.31	0.07	68.00	5.00	4.76	0.00
18.00	4.64	4.40	0.05	69.00	5.00	4.76	0.00
19.00	4.72	4.48	0.04	70.00	5.00	4.76	0.00
20.00	4.79	4.55	0.04	71.00	5.00	4.76	0.00
21.00	4.85	4.61	0.03	72.00	5.00	4.76	0.00
22.00	4.90	4.67	0.03	73.00	5.00	4.76	0.00
23.00	4.95	4.72	0.03	74.00	5.00	4.76	0.00
24.00	5.00	4.76	0.03	75.00	5.00	4.76	0.00
25.00	5.00	4.76	0.01	76.00	5.00	4.76	0.00
26.00	5.00	4.76	0.00	77.00	5.00	4.76	0.00
27.00	5.00	4.76	0.00	78.00	5.00	4.76	0.00
28.00	5.00	4.76	0.00	79.00	5.00	4.76	0.00
29.00	5.00	4.76	0.00	80.00	5.00	4.76	0.00
30.00	5.00	4.76	0.00	81.00	5.00	4.76	0.00
31.00	5.00	4.76	0.00	82.00	5.00	4.76	0.00
32.00	5.00	4.76	0.00	83.00	5.00	4.76	0.00
33.00	5.00	4.76	0.00	84.00	5.00	4.76	0.00
34.00	5.00	4.76	0.00	85.00	5.00	4.76	0.00
35.00	5.00	4.76	0.00	86.00	5.00	4.76	0.00
36.00	5.00	4.76	0.00	87.00	5.00	4.76	0.00
37.00	5.00	4.76	0.00	88.00	5.00	4.76	0.00
38.00	5.00	4.76	0.00	89.00	5.00	4.76	0.00
39.00	5.00	4.76	0.00	90.00	5.00	4.76	0.00
40.00	5.00	4.76	0.00	91.00	5.00	4.76	0.00
41.00	5.00	4.76	0.00	92.00	5.00	4.76	0.00
42.00	5.00	4.76	0.00	93.00	5.00	4.76	0.00
43.00	5.00	4.76	0.00	94.00	5.00	4.76	0.00
44.00	5.00	4.76	0.00	95.00	5.00	4.76	0.00
45.00	5.00	4.76	0.00	96.00	5.00	4.76	0.00
46.00	5.00	4.76	0.00	97.00	5.00	4.76	0.00
47.00	5.00	4.76	0.00	98.00	5.00	4.76	0.00
48.00	5.00	4.76	0.00	99.00	5.00	4.76	0.00
49.00	5.00	4.76	0.00	100.00	5.00	4.76	0.00
50.00	5.00	4.76	0.00				

Summary for Subcatchment 51S: P-300 IMP

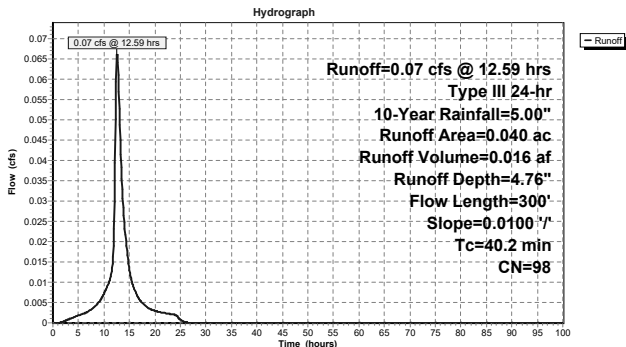
Runoff = 0.07 cfs @ 12.59 hrs, Volume= 0.016 af, Depth= 4.76"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
* 0.040	98	Unconnected pavement
0.040		100.00% Impervious Area
0.040		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300	Total			

Subcatchment 51S: P-300 IMP



Hydrograph for Subcatchment 51S: P-300 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	4.76	0.00
1.00	0.05	0.00	0.00	52.00	5.00	4.76	0.00
2.00	0.10	0.01	0.00	53.00	5.00	4.76	0.00
3.00	0.15	0.04	0.00	54.00	5.00	4.76	0.00
4.00	0.22	0.08	0.00	55.00	5.00	4.76	0.00
5.00	0.28	0.13	0.00	56.00	5.00	4.76	0.00
6.00	0.36	0.19	0.00	57.00	5.00	4.76	0.00
7.00	0.45	0.28	0.00	58.00	5.00	4.76	0.00
8.00	0.57	0.38	0.00	59.00	5.00	4.76	0.00
9.00	0.73	0.53	0.01	60.00	5.00	4.76	0.00
10.00	0.95	0.74	0.01	61.00	5.00	4.76	0.00
11.00	1.25	1.03	0.01	62.00	5.00	4.76	0.00
12.00	2.50	2.27	0.02	63.00	5.00	4.76	0.00
13.00	3.75	3.52	0.05	64.00	5.00	4.76	0.00
14.00	4.06	3.82	0.02	65.00	5.00	4.76	0.00
15.00	4.27	4.04	0.01	66.00	5.00	4.76	0.00
16.00	4.43	4.19	0.01	67.00	5.00	4.76	0.00
17.00	4.55	4.31	0.01	68.00	5.00	4.76	0.00
18.00	4.64	4.40	0.00	69.00	5.00	4.76	0.00
19.00	4.72	4.48	0.00	70.00	5.00	4.76	0.00
20.00	4.79	4.55	0.00	71.00	5.00	4.76	0.00
21.00	4.85	4.61	0.00	72.00	5.00	4.76	0.00
22.00	4.90	4.67	0.00	73.00	5.00	4.76	0.00
23.00	4.95	4.72	0.00	74.00	5.00	4.76	0.00
24.00	5.00	4.76	0.00	75.00	5.00	4.76	0.00
25.00	5.00	4.76	0.00	76.00	5.00	4.76	0.00
26.00	5.00	4.76	0.00	77.00	5.00	4.76	0.00
27.00	5.00	4.76	0.00	78.00	5.00	4.76	0.00
28.00	5.00	4.76	0.00	79.00	5.00	4.76	0.00
29.00	5.00	4.76	0.00	80.00	5.00	4.76	0.00
30.00	5.00	4.76	0.00	81.00	5.00	4.76	0.00
31.00	5.00	4.76	0.00	82.00	5.00	4.76	0.00
32.00	5.00	4.76	0.00	83.00	5.00	4.76	0.00
33.00	5.00	4.76	0.00	84.00	5.00	4.76	0.00
34.00	5.00	4.76	0.00	85.00	5.00	4.76	0.00
35.00	5.00	4.76	0.00	86.00	5.00	4.76	0.00
36.00	5.00	4.76	0.00	87.00	5.00	4.76	0.00
37.00	5.00	4.76	0.00	88.00	5.00	4.76	0.00
38.00	5.00	4.76	0.00	89.00	5.00	4.76	0.00
39.00	5.00	4.76	0.00	90.00	5.00	4.76	0.00
40.00	5.00	4.76	0.00	91.00	5.00	4.76	0.00
41.00	5.00	4.76	0.00	92.00	5.00	4.76	0.00
42.00	5.00	4.76	0.00	93.00	5.00	4.76	0.00
43.00	5.00	4.76	0.00	94.00	5.00	4.76	0.00
44.00	5.00	4.76	0.00	95.00	5.00	4.76	0.00
45.00	5.00	4.76	0.00	96.00	5.00	4.76	0.00
46.00	5.00	4.76	0.00	97.00	5.00	4.76	0.00
47.00	5.00	4.76	0.00	98.00	5.00	4.76	0.00
48.00	5.00	4.76	0.00	99.00	5.00	4.76	0.00
49.00	5.00	4.76	0.00	100.00	5.00	4.76	0.00
50.00	5.00	4.76	0.00				

Summary for Subcatchment 52S: P-400 IMP

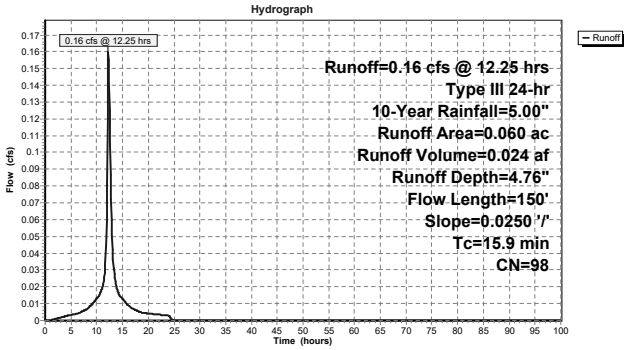
Runoff = 0.16 cfs @ 12.25 hrs, Volume= 0.024 af, Depth= 4.76"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
0.060	98	Unconnected pavement
0.060		100.00% Impervious Area
0.060		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 52S: P-400 IMP



Hydrograph for Subcatchment 52S: P-400 IMP

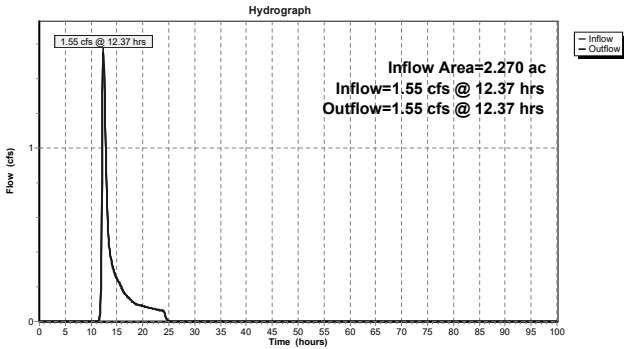
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	4.76	0.00
1.00	0.05	0.00	0.00	52.00	5.00	4.76	0.00
2.00	0.10	0.01	0.00	53.00	5.00	4.76	0.00
3.00	0.15	0.04	0.00	54.00	5.00	4.76	0.00
4.00	0.22	0.08	0.00	55.00	5.00	4.76	0.00
5.00	0.28	0.13	0.00	56.00	5.00	4.76	0.00
6.00	0.36	0.19	0.00	57.00	5.00	4.76	0.00
7.00	0.45	0.28	0.01	58.00	5.00	4.76	0.00
8.00	0.57	0.38	0.01	59.00	5.00	4.76	0.00
9.00	0.73	0.53	0.01	60.00	5.00	4.76	0.00
10.00	0.95	0.74	0.01	61.00	5.00	4.76	0.00
11.00	1.25	1.03	0.02	62.00	5.00	4.76	0.00
12.00	2.50	2.27	0.08	63.00	5.00	4.76	0.00
13.00	3.75	3.52	0.05	64.00	5.00	4.76	0.00
14.00	4.06	3.82	0.02	65.00	5.00	4.76	0.00
15.00	4.27	4.04	0.01	66.00	5.00	4.76	0.00
16.00	4.43	4.19	0.01	67.00	5.00	4.76	0.00
17.00	4.55	4.31	0.01	68.00	5.00	4.76	0.00
18.00	4.64	4.40	0.01	69.00	5.00	4.76	0.00
19.00	4.72	4.48	0.00	70.00	5.00	4.76	0.00
20.00	4.79	4.55	0.00	71.00	5.00	4.76	0.00
21.00	4.85	4.61	0.00	72.00	5.00	4.76	0.00
22.00	4.90	4.67	0.00	73.00	5.00	4.76	0.00
23.00	4.95	4.72	0.00	74.00	5.00	4.76	0.00
24.00	5.00	4.76	0.00	75.00	5.00	4.76	0.00
25.00	5.00	4.76	0.00	76.00	5.00	4.76	0.00
26.00	5.00	4.76	0.00	77.00	5.00	4.76	0.00
27.00	5.00	4.76	0.00	78.00	5.00	4.76	0.00
28.00	5.00	4.76	0.00	79.00	5.00	4.76	0.00
29.00	5.00	4.76	0.00	80.00	5.00	4.76	0.00
30.00	5.00	4.76	0.00	81.00	5.00	4.76	0.00
31.00	5.00	4.76	0.00	82.00	5.00	4.76	0.00
32.00	5.00	4.76	0.00	83.00	5.00	4.76	0.00
33.00	5.00	4.76	0.00	84.00	5.00	4.76	0.00
34.00	5.00	4.76	0.00	85.00	5.00	4.76	0.00
35.00	5.00	4.76	0.00	86.00	5.00	4.76	0.00
36.00	5.00	4.76	0.00	87.00	5.00	4.76	0.00
37.00	5.00	4.76	0.00	88.00	5.00	4.76	0.00
38.00	5.00	4.76	0.00	89.00	5.00	4.76	0.00
39.00	5.00	4.76	0.00	90.00	5.00	4.76	0.00
40.00	5.00	4.76	0.00	91.00	5.00	4.76	0.00
41.00	5.00	4.76	0.00	92.00	5.00	4.76	0.00
42.00	5.00	4.76	0.00	93.00	5.00	4.76	0.00
43.00	5.00	4.76	0.00	94.00	5.00	4.76	0.00
44.00	5.00	4.76	0.00	95.00	5.00	4.76	0.00
45.00	5.00	4.76	0.00	96.00	5.00	4.76	0.00
46.00	5.00	4.76	0.00	97.00	5.00	4.76	0.00
47.00	5.00	4.76	0.00	98.00	5.00	4.76	0.00
48.00	5.00	4.76	0.00	99.00	5.00	4.76	0.00
49.00	5.00	4.76	0.00	100.00	5.00	4.76	0.00
50.00	5.00	4.76	0.00				

Summary for Reach 6R: E-100

Inflow Area = 2.270 ac, 0.00% Impervious, Inflow Depth = 1.30" for 10-Year event
 Inflow = 1.55 cfs @ 12.37 hrs, Volume= 0.246 af
 Outflow = 1.55 cfs @ 12.37 hrs, Volume= 0.246 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 6R: E-100



Hydrograph for Reach 6R: E-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.37	0.37	0.37	63.00	0.00	0.00	0.00
13.00	0.75	0.75	0.75	64.00	0.00	0.00	0.00
14.00	0.33	0.33	0.33	65.00	0.00	0.00	0.00
15.00	0.25	0.25	0.25	66.00	0.00	0.00	0.00
16.00	0.19	0.19	0.19	67.00	0.00	0.00	0.00
17.00	0.14	0.14	0.14	68.00	0.00	0.00	0.00
18.00	0.11	0.11	0.11	69.00	0.00	0.00	0.00
19.00	0.10	0.10	0.10	70.00	0.00	0.00	0.00
20.00	0.09	0.09	0.09	71.00	0.00	0.00	0.00
21.00	0.08	0.08	0.08	72.00	0.00	0.00	0.00
22.00	0.07	0.07	0.07	73.00	0.00	0.00	0.00
23.00	0.07	0.07	0.07	74.00	0.00	0.00	0.00
24.00	0.06	0.06	0.06	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

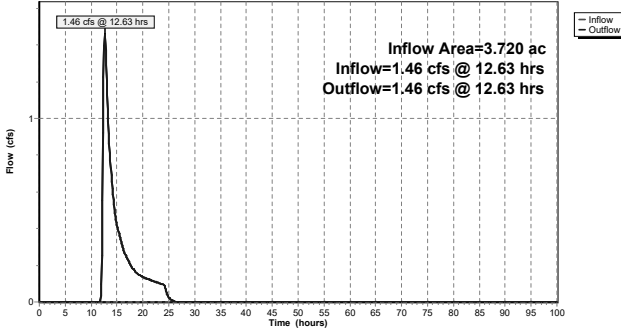
Summary for Reach 7R: E-200

Inflow Area = 3.720 ac, 0.00% Impervious, Inflow Depth = 1.10" for 10-Year event
 Inflow = 1.46 cfs @ 12.63 hrs, Volume= 0.342 af
 Outflow = 1.46 cfs @ 12.63 hrs, Volume= 0.342 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 7R: E-200

Hydrograph



Hydrograph for Reach 7R: E-200

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.10	0.10	0.10	63.00	0.00	0.00	0.00
13.00	1.20	1.20	1.20	64.00	0.00	0.00	0.00
14.00	0.65	0.65	0.65	65.00	0.00	0.00	0.00
15.00	0.42	0.42	0.42	66.00	0.00	0.00	0.00
16.00	0.31	0.31	0.31	67.00	0.00	0.00	0.00
17.00	0.23	0.23	0.23	68.00	0.00	0.00	0.00
18.00	0.19	0.19	0.19	69.00	0.00	0.00	0.00
19.00	0.15	0.15	0.15	70.00	0.00	0.00	0.00
20.00	0.14	0.14	0.14	71.00	0.00	0.00	0.00
21.00	0.12	0.12	0.12	72.00	0.00	0.00	0.00
22.00	0.11	0.11	0.11	73.00	0.00	0.00	0.00
23.00	0.10	0.10	0.10	74.00	0.00	0.00	0.00
24.00	0.09	0.09	0.09	75.00	0.00	0.00	0.00
25.00	0.03	0.03	0.03	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

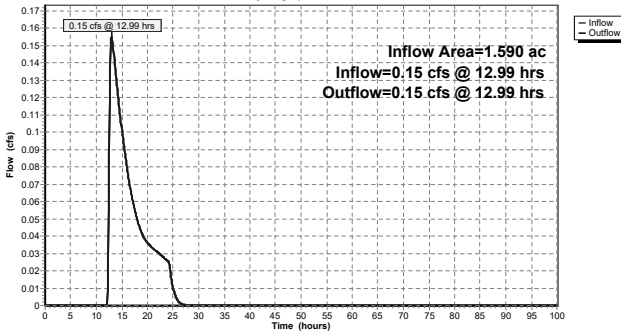
Summary for Reach 8R: E-300

Inflow Area = 1.590 ac, 0.00% Impervious, Inflow Depth = 0.49" for 10-Year event
 Inflow = 0.15 cfs @ 12.99 hrs, Volume= 0.065 af
 Outflow = 0.15 cfs @ 12.99 hrs, Volume= 0.065 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 8R: E-300

Hydrograph



Hydrograph for Reach 8R: E-300

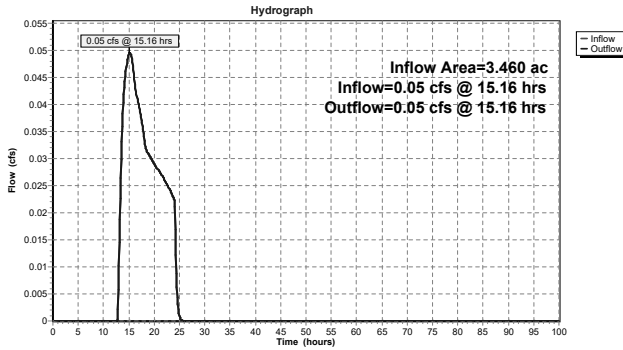
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
13.00	0.15	0.15	0.15	64.00	0.00	0.00	0.00
14.00	0.13	0.13	0.13	65.00	0.00	0.00	0.00
15.00	0.10	0.10	0.10	66.00	0.00	0.00	0.00
16.00	0.08	0.08	0.08	67.00	0.00	0.00	0.00
17.00	0.06	0.06	0.06	68.00	0.00	0.00	0.00
18.00	0.05	0.05	0.05	69.00	0.00	0.00	0.00
19.00	0.04	0.04	0.04	70.00	0.00	0.00	0.00
20.00	0.04	0.04	0.04	71.00	0.00	0.00	0.00
21.00	0.03	0.03	0.03	72.00	0.00	0.00	0.00
22.00	0.03	0.03	0.03	73.00	0.00	0.00	0.00
23.00	0.03	0.03	0.03	74.00	0.00	0.00	0.00
24.00	0.03	0.03	0.03	75.00	0.00	0.00	0.00
25.00	0.01	0.01	0.01	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 22R: E-400

Inflow Area = 3.460 ac, 0.00% Impervious, Inflow Depth = 0.11" for 10-Year event
 Inflow = 0.05 cfs @ 15.16 hrs, Volume= 0.031 af
 Outflow = 0.05 cfs @ 15.16 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 22R: E-400



Hydrograph for Reach 22R: E-400

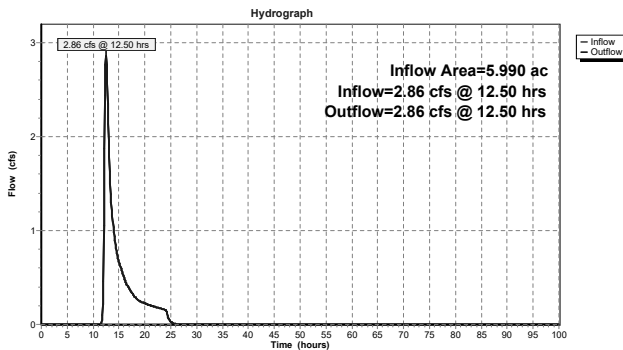
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
13.00	0.01	0.01	0.01	64.00	0.00	0.00	0.00
14.00	0.04	0.04	0.04	65.00	0.00	0.00	0.00
15.00	0.05	0.05	0.05	66.00	0.00	0.00	0.00
16.00	0.05	0.05	0.05	67.00	0.00	0.00	0.00
17.00	0.04	0.04	0.04	68.00	0.00	0.00	0.00
18.00	0.03	0.03	0.03	69.00	0.00	0.00	0.00
19.00	0.03	0.03	0.03	70.00	0.00	0.00	0.00
20.00	0.03	0.03	0.03	71.00	0.00	0.00	0.00
21.00	0.03	0.03	0.03	72.00	0.00	0.00	0.00
22.00	0.03	0.03	0.03	73.00	0.00	0.00	0.00
23.00	0.02	0.02	0.02	74.00	0.00	0.00	0.00
24.00	0.02	0.02	0.02	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 23R: E-POA "A"

Inflow Area = 5.990 ac, 0.00% Impervious, Inflow Depth = 1.18" for 10-Year event
 Inflow = 2.86 cfs @ 12.50 hrs, Volume= 0.589 af
 Outflow = 2.86 cfs @ 12.50 hrs, Volume= 0.589 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 23R: E-POA "A"



Hydrograph for Reach 23R: E-POA "A"

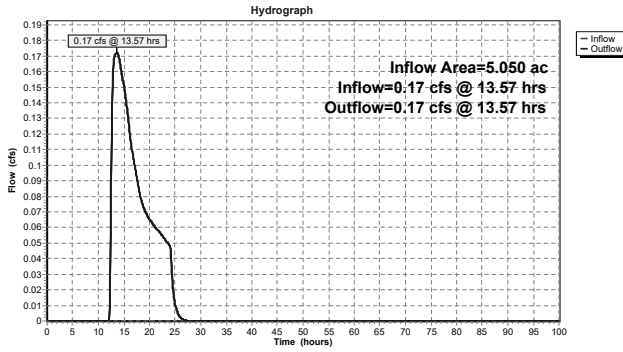
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.46	0.46	0.46	63.00	0.00	0.00	0.00
13.00	1.95	1.95	1.95	64.00	0.00	0.00	0.00
14.00	0.98	0.98	0.98	65.00	0.00	0.00	0.00
15.00	0.67	0.67	0.67	66.00	0.00	0.00	0.00
16.00	0.50	0.50	0.50	67.00	0.00	0.00	0.00
17.00	0.38	0.38	0.38	68.00	0.00	0.00	0.00
18.00	0.30	0.30	0.30	69.00	0.00	0.00	0.00
19.00	0.25	0.25	0.25	70.00	0.00	0.00	0.00
20.00	0.22	0.22	0.22	71.00	0.00	0.00	0.00
21.00	0.20	0.20	0.20	72.00	0.00	0.00	0.00
22.00	0.19	0.19	0.19	73.00	0.00	0.00	0.00
23.00	0.17	0.17	0.17	74.00	0.00	0.00	0.00
24.00	0.15	0.15	0.15	75.00	0.00	0.00	0.00
25.00	0.03	0.03	0.03	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 25R: E-POA "B"

Inflow Area = 5.050 ac, 0.00% Impervious, Inflow Depth = 0.23" for 10-Year event
 Inflow = 0.17 cfs @ 13.57 hrs, Volume= 0.096 af
 Outflow = 0.17 cfs @ 13.57 hrs, Volume= 0.096 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 25R: E-POA "B"



Hydrograph for Reach 25R: E-POA "B"

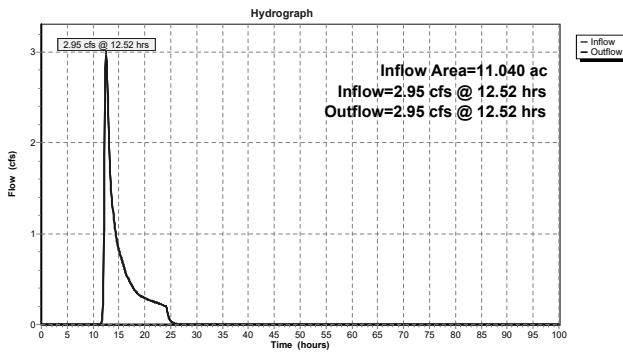
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
13.00	0.16	0.16	0.16	64.00	0.00	0.00	0.00
14.00	0.17	0.17	0.17	65.00	0.00	0.00	0.00
15.00	0.15	0.15	0.15	66.00	0.00	0.00	0.00
16.00	0.13	0.13	0.13	67.00	0.00	0.00	0.00
17.00	0.10	0.10	0.10	68.00	0.00	0.00	0.00
18.00	0.08	0.08	0.08	69.00	0.00	0.00	0.00
19.00	0.07	0.07	0.07	70.00	0.00	0.00	0.00
20.00	0.07	0.07	0.07	71.00	0.00	0.00	0.00
21.00	0.06	0.06	0.06	72.00	0.00	0.00	0.00
22.00	0.06	0.06	0.06	73.00	0.00	0.00	0.00
23.00	0.05	0.05	0.05	74.00	0.00	0.00	0.00
24.00	0.05	0.05	0.05	75.00	0.00	0.00	0.00
25.00	0.01	0.01	0.01	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 26R: E-POA

Inflow Area = 11.040 ac, 0.00% Impervious, Inflow Depth = 0.74" for 10-Year event
 Inflow = 2.95 cfs @ 12.52 hrs, Volume= 0.685 af
 Outflow = 2.95 cfs @ 12.52 hrs, Volume= 0.685 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 26R: E-POA



Hydrograph for Reach 26R: E-POA

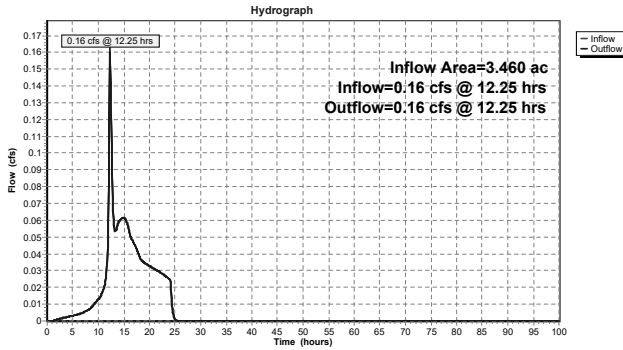
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.46	0.46	0.46	63.00	0.00	0.00	0.00
13.00	2.12	2.12	2.12	64.00	0.00	0.00	0.00
14.00	1.15	1.15	1.15	65.00	0.00	0.00	0.00
15.00	0.82	0.82	0.82	66.00	0.00	0.00	0.00
16.00	0.62	0.62	0.62	67.00	0.00	0.00	0.00
17.00	0.48	0.48	0.48	68.00	0.00	0.00	0.00
18.00	0.38	0.38	0.38	69.00	0.00	0.00	0.00
19.00	0.32	0.32	0.32	70.00	0.00	0.00	0.00
20.00	0.29	0.29	0.29	71.00	0.00	0.00	0.00
21.00	0.27	0.27	0.27	72.00	0.00	0.00	0.00
22.00	0.24	0.24	0.24	73.00	0.00	0.00	0.00
23.00	0.22	0.22	0.22	74.00	0.00	0.00	0.00
24.00	0.20	0.20	0.20	75.00	0.00	0.00	0.00
25.00	0.04	0.04	0.04	76.00	0.00	0.00	0.00
26.00	0.01	0.01	0.01	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 38R: P-400

Inflow Area = 3.460 ac, 1.73% Impervious, Inflow Depth = 0.19" for 10-Year event
 Inflow = 0.16 cfs @ 12.25 hrs, Volume= 0.055 af
 Outflow = 0.16 cfs @ 12.25 hrs, Volume= 0.055 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 38R: P-400



Hydrograph for Reach 38R: P-400

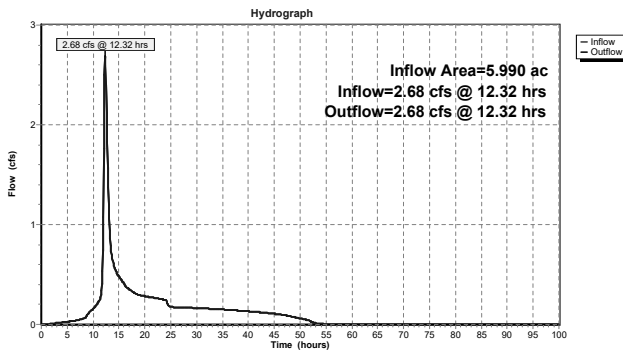
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.01	0.01	0.01	58.00	0.00	0.00	0.00
8.00	0.01	0.01	0.01	59.00	0.00	0.00	0.00
9.00	0.01	0.01	0.01	60.00	0.00	0.00	0.00
10.00	0.01	0.01	0.01	61.00	0.00	0.00	0.00
11.00	0.02	0.02	0.02	62.00	0.00	0.00	0.00
12.00	0.08	0.08	0.08	63.00	0.00	0.00	0.00
13.00	0.06	0.06	0.06	64.00	0.00	0.00	0.00
14.00	0.06	0.06	0.06	65.00	0.00	0.00	0.00
15.00	0.06	0.06	0.06	66.00	0.00	0.00	0.00
16.00	0.05	0.05	0.05	67.00	0.00	0.00	0.00
17.00	0.05	0.05	0.05	68.00	0.00	0.00	0.00
18.00	0.04	0.04	0.04	69.00	0.00	0.00	0.00
19.00	0.03	0.03	0.03	70.00	0.00	0.00	0.00
20.00	0.03	0.03	0.03	71.00	0.00	0.00	0.00
21.00	0.03	0.03	0.03	72.00	0.00	0.00	0.00
22.00	0.03	0.03	0.03	73.00	0.00	0.00	0.00
23.00	0.03	0.03	0.03	74.00	0.00	0.00	0.00
24.00	0.02	0.02	0.02	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 39R: P-POA "A"

Inflow Area = 5.990 ac, 17.36% Impervious, Inflow Depth = 1.78" for 10-Year event
 Inflow = 2.68 cfs @ 12.32 hrs, Volume= 0.889 af
 Outflow = 2.68 cfs @ 12.32 hrs, Volume= 0.889 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 39R: P-POA "A"



Hydrograph for Reach 39R: P-POA "A"

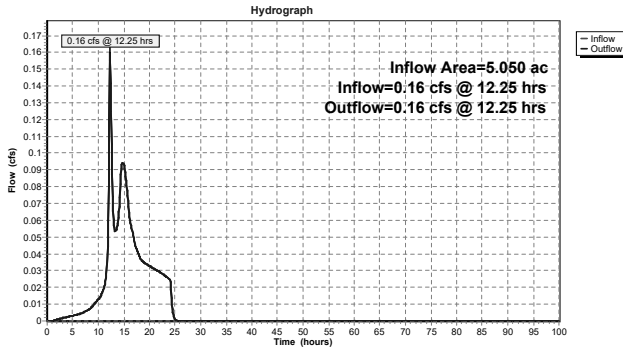
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.05	0.05	0.05
1.00	0.00	0.00	0.00	52.00	0.03	0.03	0.03
2.00	0.01	0.01	0.01	53.00	0.01	0.01	0.01
3.00	0.01	0.01	0.01	54.00	0.01	0.01	0.01
4.00	0.02	0.02	0.02	55.00	0.00	0.00	0.00
5.00	0.03	0.03	0.03	56.00	0.00	0.00	0.00
6.00	0.03	0.03	0.03	57.00	0.00	0.00	0.00
7.00	0.04	0.04	0.04	58.00	0.00	0.00	0.00
8.00	0.06	0.06	0.06	59.00	0.00	0.00	0.00
9.00	0.10	0.10	0.10	60.00	0.00	0.00	0.00
10.00	0.16	0.16	0.16	61.00	0.00	0.00	0.00
11.00	0.22	0.22	0.22	62.00	0.00	0.00	0.00
12.00	1.08	1.08	1.08	63.00	0.00	0.00	0.00
13.00	1.20	1.20	1.20	64.00	0.00	0.00	0.00
14.00	0.59	0.59	0.59	65.00	0.00	0.00	0.00
15.00	0.48	0.48	0.48	66.00	0.00	0.00	0.00
16.00	0.40	0.40	0.40	67.00	0.00	0.00	0.00
17.00	0.35	0.35	0.35	68.00	0.00	0.00	0.00
18.00	0.32	0.32	0.32	69.00	0.00	0.00	0.00
19.00	0.29	0.29	0.29	70.00	0.00	0.00	0.00
20.00	0.28	0.28	0.28	71.00	0.00	0.00	0.00
21.00	0.27	0.27	0.27	72.00	0.00	0.00	0.00
22.00	0.26	0.26	0.26	73.00	0.00	0.00	0.00
23.00	0.26	0.26	0.26	74.00	0.00	0.00	0.00
24.00	0.25	0.25	0.25	75.00	0.00	0.00	0.00
25.00	0.18	0.18	0.18	76.00	0.00	0.00	0.00
26.00	0.17	0.17	0.17	77.00	0.00	0.00	0.00
27.00	0.17	0.17	0.17	78.00	0.00	0.00	0.00
28.00	0.17	0.17	0.17	79.00	0.00	0.00	0.00
29.00	0.17	0.17	0.17	80.00	0.00	0.00	0.00
30.00	0.16	0.16	0.16	81.00	0.00	0.00	0.00
31.00	0.16	0.16	0.16	82.00	0.00	0.00	0.00
32.00	0.16	0.16	0.16	83.00	0.00	0.00	0.00
33.00	0.16	0.16	0.16	84.00	0.00	0.00	0.00
34.00	0.15	0.15	0.15	85.00	0.00	0.00	0.00
35.00	0.15	0.15	0.15	86.00	0.00	0.00	0.00
36.00	0.15	0.15	0.15	87.00	0.00	0.00	0.00
37.00	0.14	0.14	0.14	88.00	0.00	0.00	0.00
38.00	0.14	0.14	0.14	89.00	0.00	0.00	0.00
39.00	0.14	0.14	0.14	90.00	0.00	0.00	0.00
40.00	0.13	0.13	0.13	91.00	0.00	0.00	0.00
41.00	0.13	0.13	0.13	92.00	0.00	0.00	0.00
42.00	0.12	0.12	0.12	93.00	0.00	0.00	0.00
43.00	0.12	0.12	0.12	94.00	0.00	0.00	0.00
44.00	0.11	0.11	0.11	95.00	0.00	0.00	0.00
45.00	0.11	0.11	0.11	96.00	0.00	0.00	0.00
46.00	0.10	0.10	0.10	97.00	0.00	0.00	0.00
47.00	0.09	0.09	0.09	98.00	0.00	0.00	0.00
48.00	0.08	0.08	0.08	99.00	0.00	0.00	0.00
49.00	0.07	0.07	0.07	100.00	0.00	0.00	0.00
50.00	0.06	0.06	0.06				

Summary for Reach 40R: P-POA "B"

Inflow Area = 5.050 ac, 1.98% Impervious, Inflow Depth = 0.14" for 10-Year event
 Inflow = 0.16 cfs @ 12.25 hrs, Volume= 0.059 af
 Outflow = 0.16 cfs @ 12.25 hrs, Volume= 0.059 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 40R: P-POA "B"



Hydrograph for Reach 40R: P-POA "B"

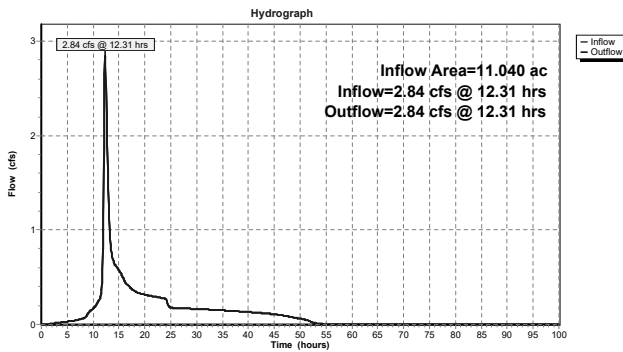
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.01	0.01	0.01	58.00	0.00	0.00	0.00
8.00	0.01	0.01	0.01	59.00	0.00	0.00	0.00
9.00	0.01	0.01	0.01	60.00	0.00	0.00	0.00
10.00	0.01	0.01	0.01	61.00	0.00	0.00	0.00
11.00	0.02	0.02	0.02	62.00	0.00	0.00	0.00
12.00	0.08	0.08	0.08	63.00	0.00	0.00	0.00
13.00	0.06	0.06	0.06	64.00	0.00	0.00	0.00
14.00	0.06	0.06	0.06	65.00	0.00	0.00	0.00
15.00	0.09	0.09	0.09	66.00	0.00	0.00	0.00
16.00	0.06	0.06	0.06	67.00	0.00	0.00	0.00
17.00	0.05	0.05	0.05	68.00	0.00	0.00	0.00
18.00	0.04	0.04	0.04	69.00	0.00	0.00	0.00
19.00	0.03	0.03	0.03	70.00	0.00	0.00	0.00
20.00	0.03	0.03	0.03	71.00	0.00	0.00	0.00
21.00	0.03	0.03	0.03	72.00	0.00	0.00	0.00
22.00	0.03	0.03	0.03	73.00	0.00	0.00	0.00
23.00	0.03	0.03	0.03	74.00	0.00	0.00	0.00
24.00	0.02	0.02	0.02	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 41R: P-POA

Inflow Area = 11.040 ac, 10.33% Impervious, Inflow Depth = 1.03" for 10-Year event
 Inflow = 2.84 cfs @ 12.31 hrs, Volume= 0.948 af
 Outflow = 2.84 cfs @ 12.31 hrs, Volume= 0.948 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 41R: P-POA



Hydrograph for Reach 41R: P-POA

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.05	0.05	0.05
1.00	0.00	0.00	0.00	52.00	0.03	0.03	0.03
2.00	0.01	0.01	0.01	53.00	0.01	0.01	0.01
3.00	0.02	0.02	0.02	54.00	0.01	0.01	0.01
4.00	0.02	0.02	0.02	55.00	0.00	0.00	0.00
5.00	0.03	0.03	0.03	56.00	0.00	0.00	0.00
6.00	0.04	0.04	0.04	57.00	0.00	0.00	0.00
7.00	0.05	0.05	0.05	58.00	0.00	0.00	0.00
8.00	0.06	0.06	0.06	59.00	0.00	0.00	0.00
9.00	0.11	0.11	0.11	60.00	0.00	0.00	0.00
10.00	0.17	0.17	0.17	61.00	0.00	0.00	0.00
11.00	0.24	0.24	0.24	62.00	0.00	0.00	0.00
12.00	1.16	1.16	1.16	63.00	0.00	0.00	0.00
13.00	1.26	1.26	1.26	64.00	0.00	0.00	0.00
14.00	0.65	0.65	0.65	65.00	0.00	0.00	0.00
15.00	0.57	0.57	0.57	66.00	0.00	0.00	0.00
16.00	0.47	0.47	0.47	67.00	0.00	0.00	0.00
17.00	0.40	0.40	0.40	68.00	0.00	0.00	0.00
18.00	0.35	0.35	0.35	69.00	0.00	0.00	0.00
19.00	0.33	0.33	0.33	70.00	0.00	0.00	0.00
20.00	0.32	0.32	0.32	71.00	0.00	0.00	0.00
21.00	0.30	0.30	0.30	72.00	0.00	0.00	0.00
22.00	0.29	0.29	0.29	73.00	0.00	0.00	0.00
23.00	0.28	0.28	0.28	74.00	0.00	0.00	0.00
24.00	0.27	0.27	0.27	75.00	0.00	0.00	0.00
25.00	0.18	0.18	0.18	76.00	0.00	0.00	0.00
26.00	0.17	0.17	0.17	77.00	0.00	0.00	0.00
27.00	0.17	0.17	0.17	78.00	0.00	0.00	0.00
28.00	0.17	0.17	0.17	79.00	0.00	0.00	0.00
29.00	0.17	0.17	0.17	80.00	0.00	0.00	0.00
30.00	0.16	0.16	0.16	81.00	0.00	0.00	0.00
31.00	0.16	0.16	0.16	82.00	0.00	0.00	0.00
32.00	0.16	0.16	0.16	83.00	0.00	0.00	0.00
33.00	0.16	0.16	0.16	84.00	0.00	0.00	0.00
34.00	0.15	0.15	0.15	85.00	0.00	0.00	0.00
35.00	0.15	0.15	0.15	86.00	0.00	0.00	0.00
36.00	0.15	0.15	0.15	87.00	0.00	0.00	0.00
37.00	0.14	0.14	0.14	88.00	0.00	0.00	0.00
38.00	0.14	0.14	0.14	89.00	0.00	0.00	0.00
39.00	0.14	0.14	0.14	90.00	0.00	0.00	0.00
40.00	0.13	0.13	0.13	91.00	0.00	0.00	0.00
41.00	0.13	0.13	0.13	92.00	0.00	0.00	0.00
42.00	0.12	0.12	0.12	93.00	0.00	0.00	0.00
43.00	0.12	0.12	0.12	94.00	0.00	0.00	0.00
44.00	0.11	0.11	0.11	95.00	0.00	0.00	0.00
45.00	0.11	0.11	0.11	96.00	0.00	0.00	0.00
46.00	0.10	0.10	0.10	97.00	0.00	0.00	0.00
47.00	0.09	0.09	0.09	98.00	0.00	0.00	0.00
48.00	0.08	0.08	0.08	99.00	0.00	0.00	0.00
49.00	0.07	0.07	0.07	100.00	0.00	0.00	0.00
50.00	0.06	0.06	0.06				

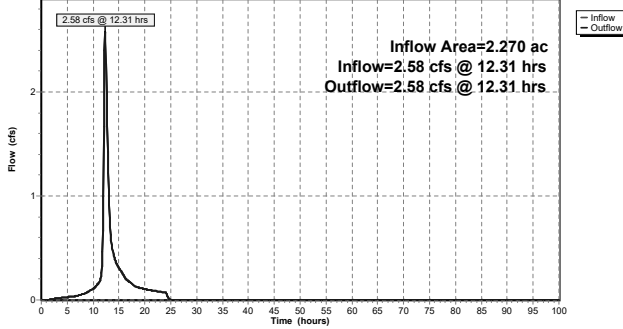
Summary for Reach 46R: P-100

Inflow Area = 2.270 ac, 22.47% Impervious, Inflow Depth = 2.13" for 10-Year event
 Inflow = 2.58 cfs @ 12.31 hrs, Volume= 0.403 af
 Outflow = 2.58 cfs @ 12.31 hrs, Volume= 0.403 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 46R: P-100

Hydrograph



Hydrograph for Reach 46R: P-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.01		0.01	53.00	0.00		0.00
3.00	0.01		0.01	54.00	0.00		0.00
4.00	0.02		0.02	55.00	0.00		0.00
5.00	0.03		0.03	56.00	0.00		0.00
6.00	0.03		0.03	57.00	0.00		0.00
7.00	0.04		0.04	58.00	0.00		0.00
8.00	0.06		0.06	59.00	0.00		0.00
9.00	0.08		0.08	60.00	0.00		0.00
10.00	0.11		0.11	61.00	0.00		0.00
11.00	0.16		0.16	62.00	0.00		0.00
12.00	0.99		0.99	63.00	0.00		0.00
13.00	1.05		1.05	64.00	0.00		0.00
14.00	0.42		0.42	65.00	0.00		0.00
15.00	0.31		0.31	66.00	0.00		0.00
16.00	0.23		0.23	67.00	0.00		0.00
17.00	0.17		0.17	68.00	0.00		0.00
18.00	0.14		0.14	69.00	0.00		0.00
19.00	0.12		0.12	70.00	0.00		0.00
20.00	0.11		0.11	71.00	0.00		0.00
21.00	0.10		0.10	72.00	0.00		0.00
22.00	0.09		0.09	73.00	0.00		0.00
23.00	0.08		0.08	74.00	0.00		0.00
24.00	0.07		0.07	75.00	0.00		0.00
25.00	0.06		0.06	76.00	0.00		0.00
26.00	0.05		0.05	77.00	0.00		0.00
27.00	0.04		0.04	78.00	0.00		0.00
28.00	0.03		0.03	79.00	0.00		0.00
29.00	0.02		0.02	80.00	0.00		0.00
30.00	0.01		0.01	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Pond 43P: P-200 Station 1450 Culvert

Inflow Area = 3.720 ac, 14.25% Impervious, Inflow Depth = 1.63" for 10-Year event
 Inflow = 2.21 cfs @ 12.57 hrs, Volume= 0.504 af
 Outflow = 0.18 cfs @ 18.83 hrs, Volume= 0.492 af, Atten= 92%, Lag= 376.2 min
 Discarded = 0.00 cfs @ 18.83 hrs, Volume= 0.006 af
 Primary = 0.18 cfs @ 18.83 hrs, Volume= 0.486 af

Routing by Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 148.26' @ 18.83 hrs Surf.Area= 16,800 sf Storage= 14,383 cf

Plug-Flow detention time= 901.5 min calculated for 0.492 af (98% of inflow)
 Center-of-Mass det. time= 887.3 min (1,758.2 - 870.9)

Volume	Invert	Avail.Storage	Storage Description
#1	143.50'	30,636 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.50	4	0	0
145.58	10	15	15
146.00	245	54	68
147.00	3,750	1,998	2,066
148.00	13,020	8,385	10,451
149.00	27,350	20,185	30,636

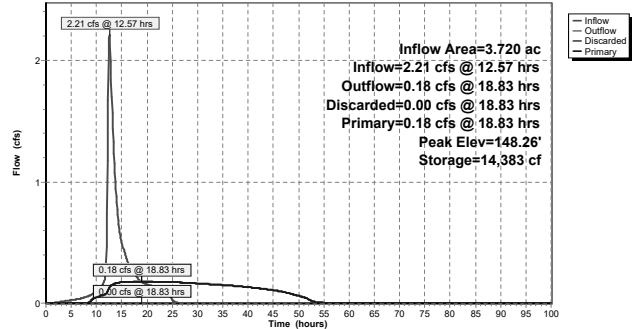
Device	Routing	Invert	Outlet Devices
#1	Discarded	143.50'	1.000 in/hr Exfiltration over Surface area below 145.60' Conductivity to Groundwater Elevation = 140.00'
#2	Primary	146.50'	2.0" x 2.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 2	145.58'	12.0" Round Culvert L= 60.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 145.58' / 145.00' S= 0.0097' / Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Discarded OutFlow Max=0.00 cfs @ 18.83 hrs HW=148.26' (Free Discharge)
 1=Exfiltration (Controls 0.00 cfs)

Primary OutFlow Max=0.18 cfs @ 18.83 hrs HW=148.26' (Free Discharge)
 2=Orifice/Grate (Orifice Controls 0.18 cfs @ 6.39 fps)
 3=Culvert (Passes 0.18 cfs of 4.55 cfs potential flow)

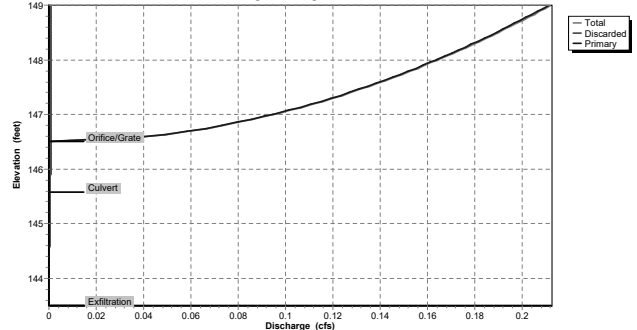
Pond 43P: P-200 Station 1450 Culvert

Hydrograph

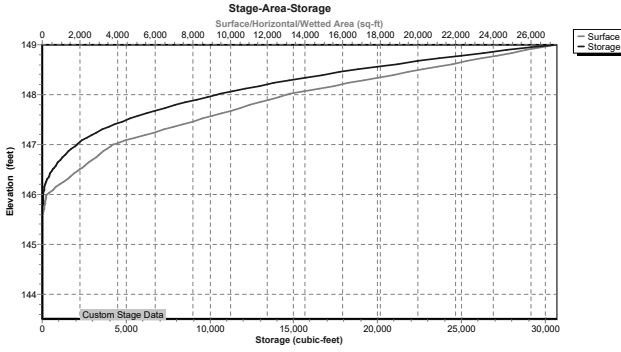


Pond 43P: P-200 Station 1450 Culvert

Stage-Discharge



Pond 43P: P-200 Station 1450 Culvert



Hydrograph for Pond 43P: P-200 Station 1450 Culvert

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	143.50	0.00	0.00	0.00
2.00	0.00	6	144.65	0.00	0.00	0.00
4.00	0.02	96	146.06	0.00	0.00	0.00
6.00	0.03	270	148.28	0.00	0.00	0.00
8.00	0.05	559	146.46	0.00	0.00	0.00
10.00	0.10	917	146.63	0.05	0.00	0.05
12.00	0.47	1,658	146.88	0.08	0.00	0.08
14.00	0.83	11,075	148.05	0.17	0.00	0.17
16.00	0.36	13,636	148.22	0.18	0.00	0.18
18.00	0.21	14,342	148.26	0.18	0.00	0.18
20.00	0.15	14,334	148.26	0.18	0.00	0.18
22.00	0.13	14,068	148.24	0.18	0.00	0.18
24.00	0.11	13,636	148.22	0.18	0.00	0.18
26.00	0.00	12,670	148.16	0.17	0.00	0.17
28.00	0.00	11,446	148.07	0.17	0.00	0.17
30.00	0.00	10,249	147.98	0.16	0.00	0.16
32.00	0.00	9,088	147.89	0.16	0.00	0.16
34.00	0.00	7,967	147.79	0.15	0.00	0.15
36.00	0.00	6,887	147.69	0.15	0.00	0.15
38.00	0.00	5,854	147.59	0.14	0.00	0.14
40.00	0.00	4,871	147.47	0.13	0.00	0.13
42.00	0.00	3,946	147.35	0.12	0.00	0.12
44.00	0.00	3,089	147.21	0.11	0.00	0.11
46.00	0.00	2,314	147.06	0.10	0.00	0.10
48.00	0.00	1,648	146.88	0.08	0.00	0.08
50.00	0.00	1,123	146.71	0.06	0.00	0.06
52.00	0.00	773	146.57	0.03	0.00	0.03
54.00	0.00	663	146.52	0.01	0.00	0.01
56.00	0.00	636	146.50	0.00	0.00	0.00
58.00	0.00	628	146.50	0.00	0.00	0.00
60.00	0.00	623	146.50	0.00	0.00	0.00
62.00	0.00	618	146.49	0.00	0.00	0.00
64.00	0.00	613	146.49	0.00	0.00	0.00
66.00	0.00	609	146.49	0.00	0.00	0.00
68.00	0.00	604	146.49	0.00	0.00	0.00
70.00	0.00	599	146.48	0.00	0.00	0.00
72.00	0.00	594	146.48	0.00	0.00	0.00
74.00	0.00	589	146.48	0.00	0.00	0.00
76.00	0.00	584	146.48	0.00	0.00	0.00
78.00	0.00	580	146.47	0.00	0.00	0.00
80.00	0.00	575	146.47	0.00	0.00	0.00
82.00	0.00	570	146.47	0.00	0.00	0.00
84.00	0.00	565	146.47	0.00	0.00	0.00
86.00	0.00	560	146.46	0.00	0.00	0.00
88.00	0.00	555	146.46	0.00	0.00	0.00
90.00	0.00	551	146.46	0.00	0.00	0.00
92.00	0.00	546	146.46	0.00	0.00	0.00
94.00	0.00	541	146.45	0.00	0.00	0.00
96.00	0.00	536	146.45	0.00	0.00	0.00
98.00	0.00	531	146.45	0.00	0.00	0.00
100.00	0.00	526	146.45	0.00	0.00	0.00

Stage-Discharge for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
143.50	0.00	0.00	0.00	148.60	0.19	0.00	0.19
143.60	0.00	0.00	0.00	148.70	0.20	0.00	0.20
143.70	0.00	0.00	0.00	148.80	0.20	0.00	0.20
143.80	0.00	0.00	0.00	148.90	0.21	0.00	0.21
143.90	0.00	0.00	0.00	149.00	0.21	0.00	0.21
144.00	0.00	0.00	0.00				
144.10	0.00	0.00	0.00				
144.20	0.00	0.00	0.00				
144.30	0.00	0.00	0.00				
144.40	0.00	0.00	0.00				
144.50	0.00	0.00	0.00				
144.60	0.00	0.00	0.00				
144.70	0.00	0.00	0.00				
144.80	0.00	0.00	0.00				
144.90	0.00	0.00	0.00				
145.00	0.00	0.00	0.00				
145.10	0.00	0.00	0.00				
145.20	0.00	0.00	0.00				
145.30	0.00	0.00	0.00				
145.40	0.00	0.00	0.00				
145.50	0.00	0.00	0.00				
145.60	0.00	0.00	0.00				
145.70	0.00	0.00	0.00				
145.80	0.00	0.00	0.00				
145.90	0.00	0.00	0.00				
146.00	0.00	0.00	0.00				
146.10	0.00	0.00	0.00				
146.20	0.00	0.00	0.00				
146.30	0.00	0.00	0.00				
146.40	0.00	0.00	0.00				
146.50	0.00	0.00	0.00				
146.60	0.04	0.00	0.04				
146.70	0.06	0.00	0.06				
146.80	0.07	0.00	0.07				
146.90	0.09	0.00	0.08				
147.00	0.10	0.00	0.09				
147.10	0.10	0.00	0.10				
147.20	0.11	0.00	0.11				
147.30	0.12	0.00	0.12				
147.40	0.13	0.00	0.13				
147.50	0.13	0.00	0.13				
147.60	0.14	0.00	0.14				
147.70	0.15	0.00	0.15				
147.80	0.15	0.00	0.15				
147.90	0.16	0.00	0.16				
148.00	0.16	0.00	0.16				
148.10	0.17	0.00	0.17				
148.20	0.18	0.00	0.17				
148.30	0.18	0.00	0.18				
148.40	0.19	0.00	0.18				
148.50	0.19	0.00	0.19				

Stage-Area-Storage for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
143.50	4	0	148.60	21,618	20,842
143.60	4	0	148.70	23,051	23,075
143.70	5	1	148.80	24,484	25,452
143.80	5	1	148.90	25,917	27,972
143.90	5	2	149.00	27,350	30,636
144.00	5	2			
144.10	6	3			
144.20	6	4			
144.30	6	4			
144.40	7	5			
144.50	7	5			
144.60	7	6			
144.70	7	7			
144.80	8	8			
144.90	8	8			
145.00	8	9			
145.10	9	10			
145.20	9	11			
145.30	9	12			
145.40	9	13			
145.50	10	14			
145.60	21	15			
145.70	77	20			
145.80	133	30			
145.90	189	46			
146.00	245	68			
146.10	595	110			
146.20	946	187			
146.30	1,297	299			
146.40	1,647	447			
146.50	1,998	629			
146.60	2,348	846			
146.70	2,698	1,098			
146.80	3,049	1,386			
146.90	3,400	1,708			
147.00	3,750	2,066			
147.10	4,677	2,487			
147.20	5,604	3,001			
147.30	6,531	3,608			
147.40	7,458	4,307			
147.50	8,385	5,099			
147.60	9,312	5,984			
147.70	10,239	6,962			
147.80	11,166	8,032			
147.90	12,093	9,195			
148.00	13,020	10,451			
148.10	14,453	11,824			
148.20	15,886	13,341			
148.30	17,319	15,001			
148.40	18,752	16,805			
148.50	20,185	18,752			

Summary for Pond 44P: P-300 Rainwater Garden

Inflow Area = 1,590 ac, 2.52% Impervious, Inflow Depth = 0.60" for 10-Year event
 Inflow = 0.21 cfs @ 12.86 hrs, Volume= 0.079 af
 Outflow = 0.12 cfs @ 14.76 hrs, Volume= 0.079 af, Atten= 43%, Lag= 114.0 min
 Discarded = 0.09 cfs @ 14.76 hrs, Volume= 0.075 af
 Primary = 0.03 cfs @ 14.76 hrs, Volume= 0.004 af

Routing by Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 147.19' @ 14.76 hrs Surf.Area= 3,629 sf Storage= 671 cf

Plug-Flow detention time= 69.3 min calculated for 0.079 af (100% of inflow)
 Center-of-Mass det. time= 69.2 min (1,026.1 - 956.9)

Volume	Invert	Avail.Storage	Storage Description
#1	147.00'	8,800 cf	Custom Stage Data (Prismatic), Listed below (Recalc)

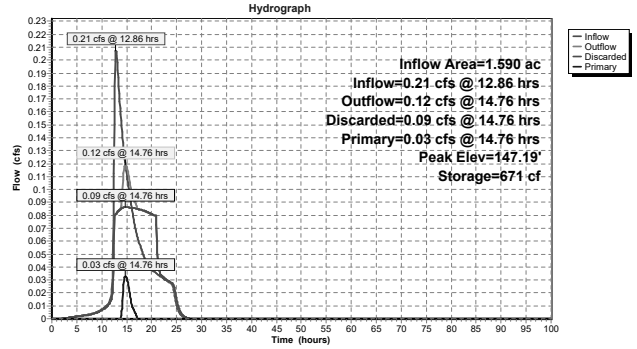
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.00	3,400	0	0
148.00	4,600	4,000	4,000
149.00	5,000	4,800	8,800

Device	Routing	Invert	Outlet Devices
#1	Discarded	147.00'	1,000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 140.00'
#2	Primary	147.16'	Asymmetrical Weir, C= 3.27 Offset (feet) 1,100.00 1,150.00 1,200.00 1,255.00 Elev. (feet) 148.00 147.16 147.91 148.00

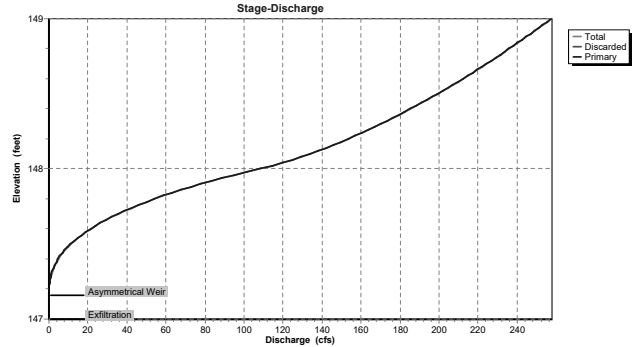
Discarded OutFlow Max=0.09 cfs @ 14.76 hrs HW=147.19' (Free Discharge)
 1=Exfiltration (Controls 0.09 cfs)

Primary OutFlow Max=0.03 cfs @ 14.76 hrs HW=147.19' (Free Discharge)
 2=Asymmetrical Weir (Weir Controls 0.03 cfs @ 0.23 fps)

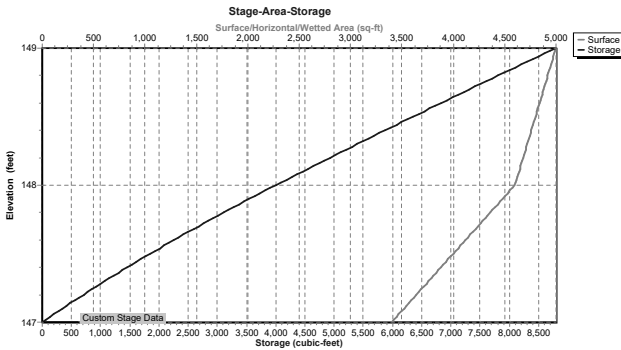
Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Hydrograph for Pond 44P: P-300 Rainwater Garden

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	147.00	0.00	0.00	0.00
2.00	0.00	0	147.00	0.00	0.00	0.00
4.00	0.00	1	147.00	0.00	0.00	0.00
6.00	0.00	2	147.00	0.00	0.00	0.00
8.00	0.00	3	147.00	0.00	0.00	0.00
10.00	0.01	6	147.00	0.01	0.01	0.00
12.00	0.02	15	147.00	0.02	0.02	0.00
14.00	0.15	603	147.17	0.09	0.09	0.01
16.00	0.09	633	147.18	0.10	0.09	0.01
18.00	0.05	480	147.14	0.08	0.08	0.00
20.00	0.04	202	147.06	0.08	0.08	0.00
22.00	0.03	28	147.01	0.03	0.03	0.00
24.00	0.03	24	147.01	0.03	0.03	0.00
26.00	0.00	3	147.00	0.00	0.00	0.00
28.00	0.00	0	147.00	0.00	0.00	0.00
30.00	0.00	0	147.00	0.00	0.00	0.00
32.00	0.00	0	147.00	0.00	0.00	0.00
34.00	0.00	0	147.00	0.00	0.00	0.00
36.00	0.00	0	147.00	0.00	0.00	0.00
38.00	0.00	0	147.00	0.00	0.00	0.00
40.00	0.00	0	147.00	0.00	0.00	0.00
42.00	0.00	0	147.00	0.00	0.00	0.00
44.00	0.00	0	147.00	0.00	0.00	0.00
46.00	0.00	0	147.00	0.00	0.00	0.00
48.00	0.00	0	147.00	0.00	0.00	0.00
50.00	0.00	0	147.00	0.00	0.00	0.00
52.00	0.00	0	147.00	0.00	0.00	0.00
54.00	0.00	0	147.00	0.00	0.00	0.00
56.00	0.00	0	147.00	0.00	0.00	0.00
58.00	0.00	0	147.00	0.00	0.00	0.00
60.00	0.00	0	147.00	0.00	0.00	0.00
62.00	0.00	0	147.00	0.00	0.00	0.00
64.00	0.00	0	147.00	0.00	0.00	0.00
66.00	0.00	0	147.00	0.00	0.00	0.00
68.00	0.00	0	147.00	0.00	0.00	0.00
70.00	0.00	0	147.00	0.00	0.00	0.00
72.00	0.00	0	147.00	0.00	0.00	0.00
74.00	0.00	0	147.00	0.00	0.00	0.00
76.00	0.00	0	147.00	0.00	0.00	0.00
78.00	0.00	0	147.00	0.00	0.00	0.00
80.00	0.00	0	147.00	0.00	0.00	0.00
82.00	0.00	0	147.00	0.00	0.00	0.00
84.00	0.00	0	147.00	0.00	0.00	0.00
86.00	0.00	0	147.00	0.00	0.00	0.00
88.00	0.00	0	147.00	0.00	0.00	0.00
90.00	0.00	0	147.00	0.00	0.00	0.00
92.00	0.00	0	147.00	0.00	0.00	0.00
94.00	0.00	0	147.00	0.00	0.00	0.00
96.00	0.00	0	147.00	0.00	0.00	0.00
98.00	0.00	0	147.00	0.00	0.00	0.00
100.00	0.00	0	147.00	0.00	0.00	0.00

Stage-Discharge for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
147.00	0.00	0.00	0.00	148.02	114.70	0.12	114.58
147.02	0.08	0.08	0.00	148.04	120.03	0.12	119.91
147.04	0.08	0.08	0.00	148.06	124.94	0.12	124.82
147.06	0.08	0.08	0.00	148.08	129.55	0.12	129.43
147.08	0.08	0.08	0.00	148.10	133.93	0.12	133.81
147.10	0.08	0.08	0.00	148.12	138.11	0.12	137.99
147.12	0.08	0.08	0.00	148.14	142.13	0.12	142.01
147.14	0.08	0.08	0.00	148.16	146.01	0.12	145.89
147.16	0.08	0.08	0.00	148.18	149.77	0.12	149.64
147.18	0.10	0.09	0.01	148.20	153.41	0.12	153.29
147.20	0.14	0.09	0.05	148.22	156.95	0.12	156.83
147.22	0.23	0.09	0.15	148.24	160.40	0.13	160.28
147.24	0.39	0.09	0.30	148.26	163.77	0.13	163.65
147.26	0.61	0.09	0.52	148.28	167.06	0.13	166.93
147.28	0.91	0.09	0.82	148.30	170.28	0.13	170.15
147.30	1.30	0.09	1.21	148.32	173.43	0.13	173.30
147.32	1.78	0.09	1.69	148.34	176.51	0.13	176.39
147.34	2.36	0.09	2.27	148.36	179.54	0.13	179.41
147.36	3.05	0.09	2.95	148.38	182.52	0.13	182.39
147.38	3.84	0.09	3.75	148.40	185.44	0.13	185.31
147.40	4.75	0.09	4.66	148.42	188.31	0.13	188.18
147.42	5.78	0.10	5.69	148.44	191.14	0.13	191.01
147.44	6.94	0.10	6.85	148.46	193.92	0.13	193.79
147.46	8.23	0.10	8.14	148.48	196.66	0.13	196.53
147.48	9.66	0.10	9.56	148.50	199.36	0.13	199.23
147.50	11.22	0.10	11.13	148.52	202.02	0.13	201.89
147.52	12.93	0.10	12.83	148.54	204.64	0.13	204.51
147.54	14.79	0.10	14.69	148.56	207.23	0.13	207.10
147.56	16.80	0.10	16.70	148.58	209.79	0.13	209.65
147.58	18.97	0.10	18.87	148.60	212.31	0.13	212.18
147.60	21.30	0.10	21.20	148.62	214.80	0.13	214.67
147.62	23.79	0.10	23.69	148.64	217.27	0.14	217.13
147.64	26.45	0.10	26.35	148.66	219.70	0.14	219.56
147.66	29.28	0.11	29.18	148.68	222.10	0.14	221.97
147.68	32.29	0.11	32.18	148.70	224.48	0.14	224.35
147.70	35.48	0.11	35.37	148.72	226.84	0.14	226.70
147.72	38.84	0.11	38.74	148.74	229.16	0.14	229.03
147.74	42.40	0.11	42.29	148.76	231.47	0.14	231.33
147.76	46.14	0.11	46.03	148.78	233.75	0.14	233.61
147.78	50.07	0.11	49.96	148.80	236.00	0.14	235.86
147.80	54.20	0.11	54.09	148.82	238.24	0.14	238.10
147.82	58.52	0.11	58.41	148.84	240.45	0.14	240.31
147.84	63.05	0.11	62.94	148.86	242.65	0.14	242.51
147.86	67.78	0.11	67.67	148.88	244.82	0.14	244.68
147.88	72.72	0.11	72.60	148.90	246.97	0.14	246.83
147.90	77.87	0.12	77.75	148.92	249.11	0.14	248.96
147.92	83.24	0.12	83.12	148.94	251.22	0.14	251.08
147.94	88.92	0.12	88.80	148.96	253.32	0.14	253.17
147.96	95.00	0.12	94.88	148.98	255.40	0.14	255.25
147.98	101.54	0.12	101.42	149.00	257.46	0.14	257.32
148.00	108.59	0.12	108.47				

Stage-Area-Storage for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.00	3,400	0	148.02	4,608	4,092
147.02	3,424	88	148.04	4,616	4,184
147.04	3,448	137	148.06	4,624	4,277
147.06	3,472	206	148.08	4,632	4,369
147.08	3,496	276	148.10	4,640	4,462
147.10	3,520	346	148.12	4,648	4,555
147.12	3,544	417	148.14	4,656	4,648
147.14	3,568	488	148.16	4,664	4,741
147.16	3,592	559	148.18	4,672	4,834
147.18	3,616	631	148.20	4,680	4,928
147.20	3,640	704	148.22	4,688	5,022
147.22	3,664	777	148.24	4,696	5,116
147.24	3,688	851	148.26	4,704	5,210
147.26	3,712	925	148.28	4,712	5,304
147.28	3,736	999	148.30	4,720	5,398
147.30	3,760	1,074	148.32	4,728	5,492
147.32	3,784	1,149	148.34	4,736	5,587
147.34	3,808	1,225	148.36	4,744	5,682
147.36	3,832	1,302	148.38	4,752	5,777
147.38	3,856	1,379	148.40	4,760	5,872
147.40	3,880	1,456	148.42	4,768	5,967
147.42	3,904	1,534	148.44	4,776	6,063
147.44	3,928	1,612	148.46	4,784	6,158
147.46	3,952	1,691	148.48	4,792	6,254
147.48	3,976	1,770	148.50	4,800	6,350
147.50	4,000	1,850	148.52	4,808	6,446
147.52	4,024	1,930	148.54	4,816	6,542
147.54	4,048	2,011	148.56	4,824	6,639
147.56	4,072	2,092	148.58	4,832	6,735
147.58	4,096	2,174	148.60	4,840	6,832
147.60	4,120	2,256	148.62	4,848	6,929
147.62	4,144	2,339	148.64	4,856	7,026
147.64	4,168	2,422	148.66	4,864	7,123
147.66	4,192	2,505	148.68	4,872	7,220
147.68	4,216	2,589	148.70	4,880	7,318
147.70	4,240	2,674	148.72	4,888	7,416
147.72	4,264	2,759	148.74	4,896	7,514
147.74	4,288	2,845	148.76	4,904	7,612
147.76	4,312	2,931	148.78	4,912	7,710
147.78	4,336	3,017	148.80	4,920	7,808
147.80	4,360	3,104	148.82	4,928	7,906
147.82	4,384	3,191	148.84	4,936	8,005
147.84	4,408	3,279	148.86	4,944	8,104
147.86	4,432	3,368	148.88	4,952	8,203
147.88	4,456	3,457	148.90	4,960	8,302
147.90	4,480	3,546	148.92	4,968	8,401
147.92	4,504	3,636	148.94	4,976	8,501
147.94	4,528	3,726	148.96	4,984	8,600
147.96	4,552	3,817	148.98	4,992	8,700
147.98	4,576	3,908	149.00	5,000	8,800
148.00	4,600	4,000			

Time span=0.00-100.00 hrs, dt=0.10 hrs, 1001 points
 Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: E-100 PERV	Runoff Area=2.270 ac 0.00% Impervious Runoff Depth=2.05" Flow Length=610' Tc=16.5 min CN=60 Runoff=2.62 cfs 0.388 af
Subcatchment2S: E-200 PERV	Runoff Area=3.720 ac 0.00% Impervious Runoff Depth=1.80" Flow Length=373' Tc=31.5 min CN=57 Runoff=2.60 cfs 0.558 af
Subcatchment3S: E-300 PERV	Runoff Area=1.590 ac 0.00% Impervious Runoff Depth=0.95" Flow Length=300' Slope=0.0100 '/' Tc=40.2 min CN=46 Runoff=0.39 cfs 0.126 af
Subcatchment4S: E-400 PERV	Runoff Area=3.460 ac 0.00% Impervious Runoff Depth=0.34" Flow Length=150' Slope=0.0250 '/' Tc=15.9 min CN=36 Runoff=0.22 cfs 0.099 af
Subcatchment45S: P-100 PERV	Runoff Area=1.760 ac 0.00% Impervious Runoff Depth=2.14" Flow Length=610' Tc=16.5 min CN=61 Runoff=2.14 cfs 0.314 af
Subcatchment46S: P-200 PERV	Runoff Area=3.190 ac 0.00% Impervious Runoff Depth=1.80" Flow Length=373' Tc=31.5 min CN=57 Runoff=2.23 cfs 0.478 af
Subcatchment47S: P-300 PERV	Runoff Area=1.550 ac 0.00% Impervious Runoff Depth=0.95" Flow Length=300' Slope=0.0100 '/' Tc=40.2 min CN=46 Runoff=0.38 cfs 0.123 af
Subcatchment48S: P-400 PERV	Runoff Area=3.400 ac 0.00% Impervious Runoff Depth=0.34" Flow Length=150' Slope=0.0250 '/' Tc=15.9 min CN=36 Runoff=0.22 cfs 0.097 af
Subcatchment49S: P-100 IMP	Runoff Area=0.510 ac 100.00% Impervious Runoff Depth=5.96" Flow Length=610' Tc=16.5 min CN=98 Runoff=1.63 cfs 0.253 af
Subcatchment50S: P-200 IMP	Runoff Area=0.530 ac 100.00% Impervious Runoff Depth=5.96" Flow Length=373' Tc=31.5 min CN=98 Runoff=1.24 cfs 0.263 af
Subcatchment51S: P-300 IMP	Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=5.96" Flow Length=300' Slope=0.0100 '/' Tc=40.2 min CN=98 Runoff=0.08 cfs 0.020 af
Subcatchment52S: P-400 IMP	Runoff Area=0.060 ac 100.00% Impervious Runoff Depth=5.96" Flow Length=150' Slope=0.0250 '/' Tc=15.9 min CN=98 Runoff=0.20 cfs 0.030 af

Reach 6R: E-100	Inflow=2.62 cfs 0.388 af Outflow=2.62 cfs 0.388 af
Reach 7R: E-200	Inflow=2.60 cfs 0.558 af Outflow=2.60 cfs 0.558 af
Reach 8R: E-300	Inflow=0.39 cfs 0.126 af Outflow=0.39 cfs 0.126 af
Reach 22R: E-400	Inflow=0.22 cfs 0.099 af Outflow=0.22 cfs 0.099 af

Reach 23R: E-POA "A"	Inflow=4.96 cfs 0.946 af Outflow=4.96 cfs 0.946 af
Reach 25R: E-POA "B"	Inflow=0.61 cfs 0.225 af Outflow=0.61 cfs 0.225 af
Reach 26R: E-POA	Inflow=5.43 cfs 1.171 af Outflow=5.43 cfs 1.171 af
Reach 38R: P-400	Inflow=0.35 cfs 0.127 af Outflow=0.35 cfs 0.127 af
Reach 39R: P-POA "A"	Inflow=3.87 cfs 1.290 af Outflow=3.87 cfs 1.290 af
Reach 40R: P-POA "B"	Inflow=0.54 cfs 0.177 af Outflow=0.54 cfs 0.177 af
Reach 41R: P-POA	Inflow=4.12 cfs 1.467 af Outflow=4.12 cfs 1.467 af
Reach 46R: P-100	Inflow=3.75 cfs 0.567 af Outflow=3.75 cfs 0.567 af
Pond 43P: P-200 Station 1450 Culvert	Peak Elev=148.70' Storage=23.027 cf Inflow=3.45 cfs 0.741 af Discarded=0.00 cfs 0.006 af Primary=0.20 cfs 0.722 af Outflow=0.20 cfs 0.729 af
Pond 44P: P-300 Rainwater Garden	Peak Elev=147.24' Storage=851 cf Inflow=0.46 cfs 0.143 af Discarded=0.09 cfs 0.092 af Primary=0.30 cfs 0.050 af Outflow=0.39 cfs 0.143 af
Total Runoff Area = 22.800 ac Runoff Volume = 2.749 af Average Runoff Depth = 1.49" 94.84% Pervious = 20.940 ac 5.16% Impervious = 1.140 ac	

Summary for Subcatchment 1S: E-100 PERV

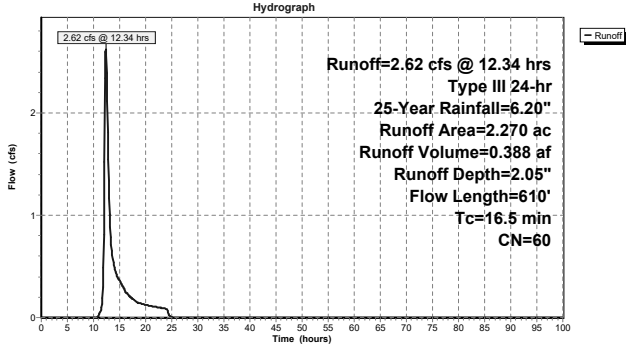
Runoff = 2.62 cfs @ 12.34 hrs, Volume= 0.388 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
0.420	55	Woods, Good, HSG B
1.850	61	>75% Grass cover, Good, HSG B
2.270	60	Weighted Average
2.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 1S: E-100 PERV



Hydrograph for Subcatchment 1S: E-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	2.05	0.00
1.00	0.06	0.00	0.00	52.00	6.20	2.05	0.00
2.00	0.12	0.00	0.00	53.00	6.20	2.05	0.00
3.00	0.19	0.00	0.00	54.00	6.20	2.05	0.00
4.00	0.27	0.00	0.00	55.00	6.20	2.05	0.00
5.00	0.35	0.00	0.00	56.00	6.20	2.05	0.00
6.00	0.45	0.00	0.00	57.00	6.20	2.05	0.00
7.00	0.56	0.00	0.00	58.00	6.20	2.05	0.00
8.00	0.71	0.00	0.00	59.00	6.20	2.05	0.00
9.00	0.90	0.00	0.00	60.00	6.20	2.05	0.00
10.00	1.17	0.00	0.00	61.00	6.20	2.05	0.00
11.00	1.55	0.01	0.02	62.00	6.20	2.05	0.00
12.00	3.10	0.37	0.81	63.00	6.20	2.05	0.00
13.00	4.65	1.10	1.16	64.00	6.20	2.05	0.00
14.00	5.03	1.32	0.49	65.00	6.20	2.05	0.00
15.00	5.30	1.48	0.36	66.00	6.20	2.05	0.00
16.00	5.49	1.60	0.27	67.00	6.20	2.05	0.00
17.00	5.64	1.69	0.21	68.00	6.20	2.05	0.00
18.00	5.75	1.76	0.16	69.00	6.20	2.05	0.00
19.00	5.85	1.82	0.14	70.00	6.20	2.05	0.00
20.00	5.93	1.88	0.13	71.00	6.20	2.05	0.00
21.00	6.01	1.93	0.11	72.00	6.20	2.05	0.00
22.00	6.08	1.97	0.10	73.00	6.20	2.05	0.00
23.00	6.14	2.02	0.09	74.00	6.20	2.05	0.00
24.00	6.20	2.05	0.08	75.00	6.20	2.05	0.00
25.00	6.20	2.05	0.00	76.00	6.20	2.05	0.00
26.00	6.20	2.05	0.00	77.00	6.20	2.05	0.00
27.00	6.20	2.05	0.00	78.00	6.20	2.05	0.00
28.00	6.20	2.05	0.00	79.00	6.20	2.05	0.00
29.00	6.20	2.05	0.00	80.00	6.20	2.05	0.00
30.00	6.20	2.05	0.00	81.00	6.20	2.05	0.00
31.00	6.20	2.05	0.00	82.00	6.20	2.05	0.00
32.00	6.20	2.05	0.00	83.00	6.20	2.05	0.00
33.00	6.20	2.05	0.00	84.00	6.20	2.05	0.00
34.00	6.20	2.05	0.00	85.00	6.20	2.05	0.00
35.00	6.20	2.05	0.00	86.00	6.20	2.05	0.00
36.00	6.20	2.05	0.00	87.00	6.20	2.05	0.00
37.00	6.20	2.05	0.00	88.00	6.20	2.05	0.00
38.00	6.20	2.05	0.00	89.00	6.20	2.05	0.00
39.00	6.20	2.05	0.00	90.00	6.20	2.05	0.00
40.00	6.20	2.05	0.00	91.00	6.20	2.05	0.00
41.00	6.20	2.05	0.00	92.00	6.20	2.05	0.00
42.00	6.20	2.05	0.00	93.00	6.20	2.05	0.00
43.00	6.20	2.05	0.00	94.00	6.20	2.05	0.00
44.00	6.20	2.05	0.00	95.00	6.20	2.05	0.00
45.00	6.20	2.05	0.00	96.00	6.20	2.05	0.00
46.00	6.20	2.05	0.00	97.00	6.20	2.05	0.00
47.00	6.20	2.05	0.00	98.00	6.20	2.05	0.00
48.00	6.20	2.05	0.00	99.00	6.20	2.05	0.00
49.00	6.20	2.05	0.00	100.00	6.20	2.05	0.00
50.00	6.20	2.05	0.00				

Summary for Subcatchment 2S: E-200 PERV

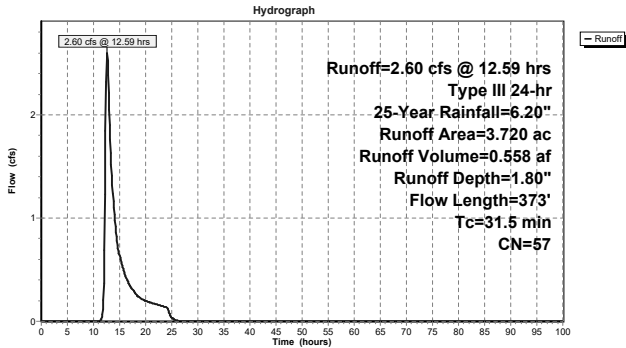
Runoff = 2.60 cfs @ 12.59 hrs, Volume= 0.558 af, Depth= 1.80"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
2.400	55	Woods, Good, HSG B
0.010	30	Woods, Good, HSG A
1.310	61	>75% Grass cover, Good, HSG B
3.720	57	Weighted Average
3.720		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 2S: E-200 PERV



Hydrograph for Subcatchment 2S: E-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	1.80	0.00
1.00	0.06	0.00	0.00	52.00	6.20	1.80	0.00
2.00	0.12	0.00	0.00	53.00	6.20	1.80	0.00
3.00	0.19	0.00	0.00	54.00	6.20	1.80	0.00
4.00	0.27	0.00	0.00	55.00	6.20	1.80	0.00
5.00	0.35	0.00	0.00	56.00	6.20	1.80	0.00
6.00	0.45	0.00	0.00	57.00	6.20	1.80	0.00
7.00	0.56	0.00	0.00	58.00	6.20	1.80	0.00
8.00	0.71	0.00	0.00	59.00	6.20	1.80	0.00
9.00	0.90	0.00	0.00	60.00	6.20	1.80	0.00
10.00	1.17	0.00	0.00	61.00	6.20	1.80	0.00
11.00	1.55	0.00	0.00	62.00	6.20	1.80	0.00
12.00	3.10	0.28	0.37	63.00	6.20	1.80	0.00
13.00	4.65	0.92	2.05	64.00	6.20	1.80	0.00
14.00	5.03	1.12	1.03	65.00	6.20	1.80	0.00
15.00	5.30	1.27	0.64	66.00	6.20	1.80	0.00
16.00	5.49	1.38	0.46	67.00	6.20	1.80	0.00
17.00	5.64	1.46	0.35	68.00	6.20	1.80	0.00
18.00	5.75	1.53	0.27	69.00	6.20	1.80	0.00
19.00	5.85	1.58	0.22	70.00	6.20	1.80	0.00
20.00	5.93	1.64	0.20	71.00	6.20	1.80	0.00
21.00	6.01	1.68	0.18	72.00	6.20	1.80	0.00
22.00	6.08	1.73	0.17	73.00	6.20	1.80	0.00
23.00	6.14	1.76	0.15	74.00	6.20	1.80	0.00
24.00	6.20	1.80	0.13	75.00	6.20	1.80	0.00
25.00	6.20	1.80	0.04	76.00	6.20	1.80	0.00
26.00	6.20	1.80	0.01	77.00	6.20	1.80	0.00
27.00	6.20	1.80	0.00	78.00	6.20	1.80	0.00
28.00	6.20	1.80	0.00	79.00	6.20	1.80	0.00
29.00	6.20	1.80	0.00	80.00	6.20	1.80	0.00
30.00	6.20	1.80	0.00	81.00	6.20	1.80	0.00
31.00	6.20	1.80	0.00	82.00	6.20	1.80	0.00
32.00	6.20	1.80	0.00	83.00	6.20	1.80	0.00
33.00	6.20	1.80	0.00	84.00	6.20	1.80	0.00
34.00	6.20	1.80	0.00	85.00	6.20	1.80	0.00
35.00	6.20	1.80	0.00	86.00	6.20	1.80	0.00
36.00	6.20	1.80	0.00	87.00	6.20	1.80	0.00
37.00	6.20	1.80	0.00	88.00	6.20	1.80	0.00
38.00	6.20	1.80	0.00	89.00	6.20	1.80	0.00
39.00	6.20	1.80	0.00	90.00	6.20	1.80	0.00
40.00	6.20	1.80	0.00	91.00	6.20	1.80	0.00
41.00	6.20	1.80	0.00	92.00	6.20	1.80	0.00
42.00	6.20	1.80	0.00	93.00	6.20	1.80	0.00
43.00	6.20	1.80	0.00	94.00	6.20	1.80	0.00
44.00	6.20	1.80	0.00	95.00	6.20	1.80	0.00
45.00	6.20	1.80	0.00	96.00	6.20	1.80	0.00
46.00	6.20	1.80	0.00	97.00	6.20	1.80	0.00
47.00	6.20	1.80	0.00	98.00	6.20	1.80	0.00
48.00	6.20	1.80	0.00	99.00	6.20	1.80	0.00
49.00	6.20	1.80	0.00	100.00	6.20	1.80	0.00
50.00	6.20	1.80	0.00				

Summary for Subcatchment 3S: E-300 PERV

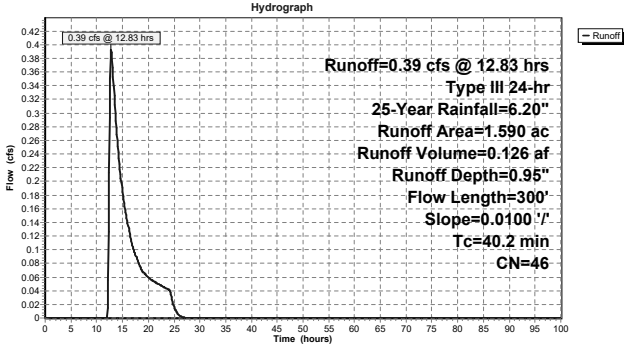
Runoff = 0.39 cfs @ 12.83 hrs, Volume= 0.126 af, Depth= 0.95"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	Pasture/grassland/range, Good, HSG B
0.940	39	Pasture/grassland/range, Good, HSG A
1.590	46	Weighted Average
1.590		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 3S: E-300 PERV



Hydrograph for Subcatchment 3S: E-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	0.95	0.00
1.00	0.06	0.00	0.00	52.00	6.20	0.95	0.00
2.00	0.12	0.00	0.00	53.00	6.20	0.95	0.00
3.00	0.19	0.00	0.00	54.00	6.20	0.95	0.00
4.00	0.27	0.00	0.00	55.00	6.20	0.95	0.00
5.00	0.35	0.00	0.00	56.00	6.20	0.95	0.00
6.00	0.45	0.00	0.00	57.00	6.20	0.95	0.00
7.00	0.56	0.00	0.00	58.00	6.20	0.95	0.00
8.00	0.71	0.00	0.00	59.00	6.20	0.95	0.00
9.00	0.90	0.00	0.00	60.00	6.20	0.95	0.00
10.00	1.17	0.00	0.00	61.00	6.20	0.95	0.00
11.00	1.55	0.00	0.00	62.00	6.20	0.95	0.00
12.00	3.10	0.05	0.00	63.00	6.20	0.95	0.00
13.00	4.65	0.38	0.38	64.00	6.20	0.95	0.00
14.00	5.03	0.50	0.26	65.00	6.20	0.95	0.00
15.00	5.30	0.59	0.18	66.00	6.20	0.95	0.00
16.00	5.49	0.66	0.14	67.00	6.20	0.95	0.00
17.00	5.64	0.72	0.10	68.00	6.20	0.95	0.00
18.00	5.75	0.77	0.08	69.00	6.20	0.95	0.00
19.00	5.85	0.80	0.07	70.00	6.20	0.95	0.00
20.00	5.93	0.84	0.06	71.00	6.20	0.95	0.00
21.00	6.01	0.87	0.05	72.00	6.20	0.95	0.00
22.00	6.08	0.90	0.05	73.00	6.20	0.95	0.00
23.00	6.14	0.93	0.05	74.00	6.20	0.95	0.00
24.00	6.20	0.95	0.04	75.00	6.20	0.95	0.00
25.00	6.20	0.95	0.02	76.00	6.20	0.95	0.00
26.00	6.20	0.95	0.00	77.00	6.20	0.95	0.00
27.00	6.20	0.95	0.00	78.00	6.20	0.95	0.00
28.00	6.20	0.95	0.00	79.00	6.20	0.95	0.00
29.00	6.20	0.95	0.00	80.00	6.20	0.95	0.00
30.00	6.20	0.95	0.00	81.00	6.20	0.95	0.00
31.00	6.20	0.95	0.00	82.00	6.20	0.95	0.00
32.00	6.20	0.95	0.00	83.00	6.20	0.95	0.00
33.00	6.20	0.95	0.00	84.00	6.20	0.95	0.00
34.00	6.20	0.95	0.00	85.00	6.20	0.95	0.00
35.00	6.20	0.95	0.00	86.00	6.20	0.95	0.00
36.00	6.20	0.95	0.00	87.00	6.20	0.95	0.00
37.00	6.20	0.95	0.00	88.00	6.20	0.95	0.00
38.00	6.20	0.95	0.00	89.00	6.20	0.95	0.00
39.00	6.20	0.95	0.00	90.00	6.20	0.95	0.00
40.00	6.20	0.95	0.00	91.00	6.20	0.95	0.00
41.00	6.20	0.95	0.00	92.00	6.20	0.95	0.00
42.00	6.20	0.95	0.00	93.00	6.20	0.95	0.00
43.00	6.20	0.95	0.00	94.00	6.20	0.95	0.00
44.00	6.20	0.95	0.00	95.00	6.20	0.95	0.00
45.00	6.20	0.95	0.00	96.00	6.20	0.95	0.00
46.00	6.20	0.95	0.00	97.00	6.20	0.95	0.00
47.00	6.20	0.95	0.00	98.00	6.20	0.95	0.00
48.00	6.20	0.95	0.00	99.00	6.20	0.95	0.00
49.00	6.20	0.95	0.00	100.00	6.20	0.95	0.00
50.00	6.20	0.95	0.00				

Summary for Subcatchment 4S: E-400 PERV

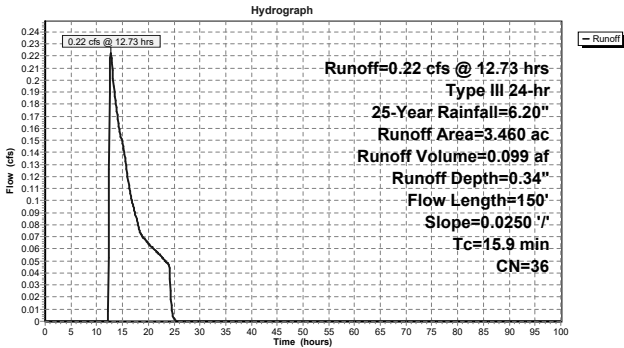
Runoff = 0.22 cfs @ 12.73 hrs, Volume= 0.099 af, Depth= 0.34"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.980	39	Pasture/grassland/range, Good, HSG A
3.460	36	Weighted Average
3.460		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 4S: E-400 PERV



Hydrograph for Subcatchment 4S: E-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	0.34	0.00
1.00	0.06	0.00	0.00	52.00	6.20	0.34	0.00
2.00	0.12	0.00	0.00	53.00	6.20	0.34	0.00
3.00	0.19	0.00	0.00	54.00	6.20	0.34	0.00
4.00	0.27	0.00	0.00	55.00	6.20	0.34	0.00
5.00	0.35	0.00	0.00	56.00	6.20	0.34	0.00
6.00	0.45	0.00	0.00	57.00	6.20	0.34	0.00
7.00	0.56	0.00	0.00	58.00	6.20	0.34	0.00
8.00	0.71	0.00	0.00	59.00	6.20	0.34	0.00
9.00	0.90	0.00	0.00	60.00	6.20	0.34	0.00
10.00	1.17	0.00	0.00	61.00	6.20	0.34	0.00
11.00	1.55	0.00	0.00	62.00	6.20	0.34	0.00
12.00	3.10	0.00	0.00	63.00	6.20	0.34	0.00
13.00	4.65	0.06	0.21	64.00	6.20	0.34	0.00
14.00	5.03	0.11	0.17	65.00	6.20	0.34	0.00
15.00	5.30	0.16	0.15	66.00	6.20	0.34	0.00
16.00	5.49	0.19	0.12	67.00	6.20	0.34	0.00
17.00	5.64	0.22	0.10	68.00	6.20	0.34	0.00
18.00	5.75	0.24	0.08	69.00	6.20	0.34	0.00
19.00	5.85	0.26	0.07	70.00	6.20	0.34	0.00
20.00	5.93	0.28	0.06	71.00	6.20	0.34	0.00
21.00	6.01	0.30	0.06	72.00	6.20	0.34	0.00
22.00	6.08	0.31	0.06	73.00	6.20	0.34	0.00
23.00	6.14	0.35	0.05	74.00	6.20	0.34	0.00
24.00	6.20	0.34	0.05	75.00	6.20	0.34	0.00
25.00	6.20	0.34	0.00	76.00	6.20	0.34	0.00
26.00	6.20	0.34	0.00	77.00	6.20	0.34	0.00
27.00	6.20	0.34	0.00	78.00	6.20	0.34	0.00
28.00	6.20	0.34	0.00	79.00	6.20	0.34	0.00
29.00	6.20	0.34	0.00	80.00	6.20	0.34	0.00
30.00	6.20	0.34	0.00	81.00	6.20	0.34	0.00
31.00	6.20	0.34	0.00	82.00	6.20	0.34	0.00
32.00	6.20	0.34	0.00	83.00	6.20	0.34	0.00
33.00	6.20	0.34	0.00	84.00	6.20	0.34	0.00
34.00	6.20	0.34	0.00	85.00	6.20	0.34	0.00
35.00	6.20	0.34	0.00	86.00	6.20	0.34	0.00
36.00	6.20	0.34	0.00	87.00	6.20	0.34	0.00
37.00	6.20	0.34	0.00	88.00	6.20	0.34	0.00
38.00	6.20	0.34	0.00	89.00	6.20	0.34	0.00
39.00	6.20	0.34	0.00	90.00	6.20	0.34	0.00
40.00	6.20	0.34	0.00	91.00	6.20	0.34	0.00
41.00	6.20	0.34	0.00	92.00	6.20	0.34	0.00
42.00	6.20	0.34	0.00	93.00	6.20	0.34	0.00
43.00	6.20	0.34	0.00	94.00	6.20	0.34	0.00
44.00	6.20	0.34	0.00	95.00	6.20	0.34	0.00
45.00	6.20	0.34	0.00	96.00	6.20	0.34	0.00
46.00	6.20	0.34	0.00	97.00	6.20	0.34	0.00
47.00	6.20	0.34	0.00	98.00	6.20	0.34	0.00
48.00	6.20	0.34	0.00	99.00	6.20	0.34	0.00
49.00	6.20	0.34	0.00	100.00	6.20	0.34	0.00
50.00	6.20	0.34	0.00				

Summary for Subcatchment 45S: P-100 PERV

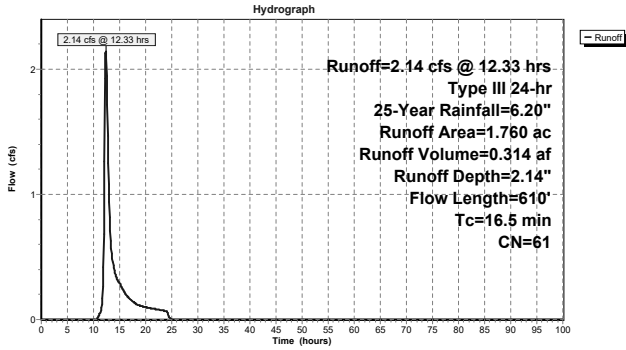
Runoff = 2.14 cfs @ 12.33 hrs, Volume= 0.314 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
0.130	55	Woods, Good, HSG B
1.630	61	>75% Grass cover, Good, HSG B
1.760	61	Weighted Average
1.760		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 45S: P-100 PERV



Hydrograph for Subcatchment 45S: P-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	2.14	0.00
1.00	0.06	0.00	0.00	52.00	6.20	2.14	0.00
2.00	0.12	0.00	0.00	53.00	6.20	2.14	0.00
3.00	0.19	0.00	0.00	54.00	6.20	2.14	0.00
4.00	0.27	0.00	0.00	55.00	6.20	2.14	0.00
5.00	0.35	0.00	0.00	56.00	6.20	2.14	0.00
6.00	0.45	0.00	0.00	57.00	6.20	2.14	0.00
7.00	0.56	0.00	0.00	58.00	6.20	2.14	0.00
8.00	0.71	0.00	0.00	59.00	6.20	2.14	0.00
9.00	0.90	0.00	0.00	60.00	6.20	2.14	0.00
10.00	1.17	0.00	0.00	61.00	6.20	2.14	0.00
11.00	1.55	0.01	0.03	62.00	6.20	2.14	0.00
12.00	3.10	0.40	0.68	63.00	6.20	2.14	0.00
13.00	4.65	1.16	0.94	64.00	6.20	2.14	0.00
14.00	5.03	1.39	0.39	65.00	6.20	2.14	0.00
15.00	5.30	1.55	0.29	66.00	6.20	2.14	0.00
16.00	5.49	1.67	0.21	67.00	6.20	2.14	0.00
17.00	5.64	1.77	0.16	68.00	6.20	2.14	0.00
18.00	5.75	1.84	0.13	69.00	6.20	2.14	0.00
19.00	5.85	1.90	0.11	70.00	6.20	2.14	0.00
20.00	5.93	1.96	0.10	71.00	6.20	2.14	0.00
21.00	6.01	2.01	0.09	72.00	6.20	2.14	0.00
22.00	6.08	2.06	0.08	73.00	6.20	2.14	0.00
23.00	6.14	2.10	0.08	74.00	6.20	2.14	0.00
24.00	6.20	2.14	0.07	75.00	6.20	2.14	0.00
25.00	6.20	2.14	0.00	76.00	6.20	2.14	0.00
26.00	6.20	2.14	0.00	77.00	6.20	2.14	0.00
27.00	6.20	2.14	0.00	78.00	6.20	2.14	0.00
28.00	6.20	2.14	0.00	79.00	6.20	2.14	0.00
29.00	6.20	2.14	0.00	80.00	6.20	2.14	0.00
30.00	6.20	2.14	0.00	81.00	6.20	2.14	0.00
31.00	6.20	2.14	0.00	82.00	6.20	2.14	0.00
32.00	6.20	2.14	0.00	83.00	6.20	2.14	0.00
33.00	6.20	2.14	0.00	84.00	6.20	2.14	0.00
34.00	6.20	2.14	0.00	85.00	6.20	2.14	0.00
35.00	6.20	2.14	0.00	86.00	6.20	2.14	0.00
36.00	6.20	2.14	0.00	87.00	6.20	2.14	0.00
37.00	6.20	2.14	0.00	88.00	6.20	2.14	0.00
38.00	6.20	2.14	0.00	89.00	6.20	2.14	0.00
39.00	6.20	2.14	0.00	90.00	6.20	2.14	0.00
40.00	6.20	2.14	0.00	91.00	6.20	2.14	0.00
41.00	6.20	2.14	0.00	92.00	6.20	2.14	0.00
42.00	6.20	2.14	0.00	93.00	6.20	2.14	0.00
43.00	6.20	2.14	0.00	94.00	6.20	2.14	0.00
44.00	6.20	2.14	0.00	95.00	6.20	2.14	0.00
45.00	6.20	2.14	0.00	96.00	6.20	2.14	0.00
46.00	6.20	2.14	0.00	97.00	6.20	2.14	0.00
47.00	6.20	2.14	0.00	98.00	6.20	2.14	0.00
48.00	6.20	2.14	0.00	99.00	6.20	2.14	0.00
49.00	6.20	2.14	0.00	100.00	6.20	2.14	0.00
50.00	6.20	2.14	0.00				

Summary for Subcatchment 46S: P-200 PERV

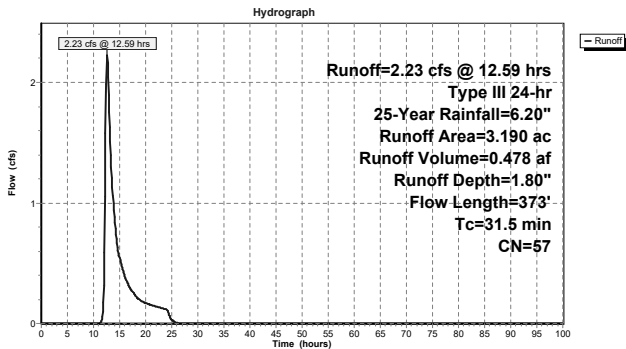
Runoff = 2.23 cfs @ 12.59 hrs, Volume= 0.478 af, Depth= 1.80"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
2.070	55	Woods, Good, HSG B
0.000	30	Woods, Good, HSG A
1.110	61	>75% Grass cover, Good, HSG B
0.010	39	>75% Grass cover, Good, HSG A
3.190	57	Weighted Average
3.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 46S: P-200 PERV



Hydrograph for Subcatchment 46S: P-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	1.80	0.00
1.00	0.06	0.00	0.00	52.00	6.20	1.80	0.00
2.00	0.12	0.00	0.00	53.00	6.20	1.80	0.00
3.00	0.19	0.00	0.00	54.00	6.20	1.80	0.00
4.00	0.27	0.00	0.00	55.00	6.20	1.80	0.00
5.00	0.35	0.00	0.00	56.00	6.20	1.80	0.00
6.00	0.45	0.00	0.00	57.00	6.20	1.80	0.00
7.00	0.56	0.00	0.00	58.00	6.20	1.80	0.00
8.00	0.71	0.00	0.00	59.00	6.20	1.80	0.00
9.00	0.90	0.00	0.00	60.00	6.20	1.80	0.00
10.00	1.17	0.00	0.00	61.00	6.20	1.80	0.00
11.00	1.55	0.00	0.00	62.00	6.20	1.80	0.00
12.00	3.10	0.28	0.31	63.00	6.20	1.80	0.00
13.00	4.65	0.92	1.76	64.00	6.20	1.80	0.00
14.00	5.03	1.12	0.89	65.00	6.20	1.80	0.00
15.00	5.30	1.27	0.54	66.00	6.20	1.80	0.00
16.00	5.49	1.38	0.39	67.00	6.20	1.80	0.00
17.00	5.64	1.46	0.30	68.00	6.20	1.80	0.00
18.00	5.75	1.53	0.23	69.00	6.20	1.80	0.00
19.00	5.85	1.58	0.19	70.00	6.20	1.80	0.00
20.00	5.93	1.64	0.17	71.00	6.20	1.80	0.00
21.00	6.01	1.68	0.15	72.00	6.20	1.80	0.00
22.00	6.08	1.73	0.14	73.00	6.20	1.80	0.00
23.00	6.14	1.76	0.13	74.00	6.20	1.80	0.00
24.00	6.20	1.80	0.12	75.00	6.20	1.80	0.00
25.00	6.20	1.80	0.03	76.00	6.20	1.80	0.00
26.00	6.20	1.80	0.00	77.00	6.20	1.80	0.00
27.00	6.20	1.80	0.00	78.00	6.20	1.80	0.00
28.00	6.20	1.80	0.00	79.00	6.20	1.80	0.00
29.00	6.20	1.80	0.00	80.00	6.20	1.80	0.00
30.00	6.20	1.80	0.00	81.00	6.20	1.80	0.00
31.00	6.20	1.80	0.00	82.00	6.20	1.80	0.00
32.00	6.20	1.80	0.00	83.00	6.20	1.80	0.00
33.00	6.20	1.80	0.00	84.00	6.20	1.80	0.00
34.00	6.20	1.80	0.00	85.00	6.20	1.80	0.00
35.00	6.20	1.80	0.00	86.00	6.20	1.80	0.00
36.00	6.20	1.80	0.00	87.00	6.20	1.80	0.00
37.00	6.20	1.80	0.00	88.00	6.20	1.80	0.00
38.00	6.20	1.80	0.00	89.00	6.20	1.80	0.00
39.00	6.20	1.80	0.00	90.00	6.20	1.80	0.00
40.00	6.20	1.80	0.00	91.00	6.20	1.80	0.00
41.00	6.20	1.80	0.00	92.00	6.20	1.80	0.00
42.00	6.20	1.80	0.00	93.00	6.20	1.80	0.00
43.00	6.20	1.80	0.00	94.00	6.20	1.80	0.00
44.00	6.20	1.80	0.00	95.00	6.20	1.80	0.00
45.00	6.20	1.80	0.00	96.00	6.20	1.80	0.00
46.00	6.20	1.80	0.00	97.00	6.20	1.80	0.00
47.00	6.20	1.80	0.00	98.00	6.20	1.80	0.00
48.00	6.20	1.80	0.00	99.00	6.20	1.80	0.00
49.00	6.20	1.80	0.00	100.00	6.20	1.80	0.00
50.00	6.20	1.80	0.00				

Summary for Subcatchment 47S: P-300 PERV

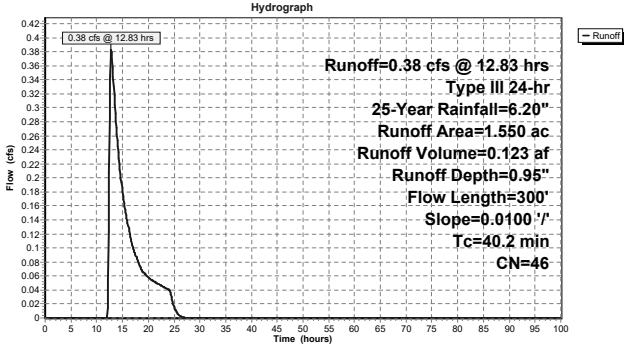
Runoff = 0.38 cfs @ 12.83 hrs, Volume= 0.123 af, Depth= 0.95"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	>75% Grass cover, Good, HSG B
0.900	39	>75% Grass cover, Good, HSG A
1.550	46	Weighted Average
1.550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 47S: P-300 PERV



Hydrograph for Subcatchment 47S: P-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	0.95	0.00
1.00	0.06	0.00	0.00	52.00	6.20	0.95	0.00
2.00	0.12	0.00	0.00	53.00	6.20	0.95	0.00
3.00	0.19	0.00	0.00	54.00	6.20	0.95	0.00
4.00	0.27	0.00	0.00	55.00	6.20	0.95	0.00
5.00	0.35	0.00	0.00	56.00	6.20	0.95	0.00
6.00	0.45	0.00	0.00	57.00	6.20	0.95	0.00
7.00	0.56	0.00	0.00	58.00	6.20	0.95	0.00
8.00	0.71	0.00	0.00	59.00	6.20	0.95	0.00
9.00	0.90	0.00	0.00	60.00	6.20	0.95	0.00
10.00	1.17	0.00	0.00	61.00	6.20	0.95	0.00
11.00	1.55	0.00	0.00	62.00	6.20	0.95	0.00
12.00	3.10	0.05	0.00	63.00	6.20	0.95	0.00
13.00	4.65	0.38	0.37	64.00	6.20	0.95	0.00
14.00	5.03	0.50	0.25	65.00	6.20	0.95	0.00
15.00	5.30	0.59	0.18	66.00	6.20	0.95	0.00
16.00	5.49	0.66	0.14	67.00	6.20	0.95	0.00
17.00	5.64	0.72	0.10	68.00	6.20	0.95	0.00
18.00	5.75	0.77	0.08	69.00	6.20	0.95	0.00
19.00	5.85	0.80	0.07	70.00	6.20	0.95	0.00
20.00	5.93	0.84	0.06	71.00	6.20	0.95	0.00
21.00	6.01	0.87	0.05	72.00	6.20	0.95	0.00
22.00	6.08	0.90	0.05	73.00	6.20	0.95	0.00
23.00	6.14	0.93	0.04	74.00	6.20	0.95	0.00
24.00	6.20	0.95	0.04	75.00	6.20	0.95	0.00
25.00	6.20	0.95	0.02	76.00	6.20	0.95	0.00
26.00	6.20	0.95	0.00	77.00	6.20	0.95	0.00
27.00	6.20	0.95	0.00	78.00	6.20	0.95	0.00
28.00	6.20	0.95	0.00	79.00	6.20	0.95	0.00
29.00	6.20	0.95	0.00	80.00	6.20	0.95	0.00
30.00	6.20	0.95	0.00	81.00	6.20	0.95	0.00
31.00	6.20	0.95	0.00	82.00	6.20	0.95	0.00
32.00	6.20	0.95	0.00	83.00	6.20	0.95	0.00
33.00	6.20	0.95	0.00	84.00	6.20	0.95	0.00
34.00	6.20	0.95	0.00	85.00	6.20	0.95	0.00
35.00	6.20	0.95	0.00	86.00	6.20	0.95	0.00
36.00	6.20	0.95	0.00	87.00	6.20	0.95	0.00
37.00	6.20	0.95	0.00	88.00	6.20	0.95	0.00
38.00	6.20	0.95	0.00	89.00	6.20	0.95	0.00
39.00	6.20	0.95	0.00	90.00	6.20	0.95	0.00
40.00	6.20	0.95	0.00	91.00	6.20	0.95	0.00
41.00	6.20	0.95	0.00	92.00	6.20	0.95	0.00
42.00	6.20	0.95	0.00	93.00	6.20	0.95	0.00
43.00	6.20	0.95	0.00	94.00	6.20	0.95	0.00
44.00	6.20	0.95	0.00	95.00	6.20	0.95	0.00
45.00	6.20	0.95	0.00	96.00	6.20	0.95	0.00
46.00	6.20	0.95	0.00	97.00	6.20	0.95	0.00
47.00	6.20	0.95	0.00	98.00	6.20	0.95	0.00
48.00	6.20	0.95	0.00	99.00	6.20	0.95	0.00
49.00	6.20	0.95	0.00	100.00	6.20	0.95	0.00
50.00	6.20	0.95	0.00				

Summary for Subcatchment 48S: P-400 PERV

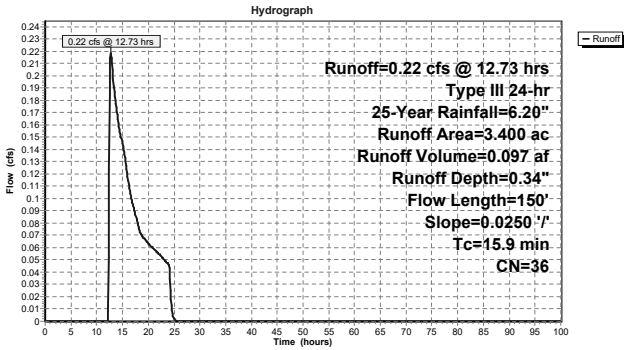
Runoff = 0.22 cfs @ 12.73 hrs, Volume= 0.097 af, Depth= 0.34"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.920	39	>75% Grass cover, Good, HSG A
3.400	36	Weighted Average
3.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 48S: P-400 PERV



Hydrograph for Subcatchment 48S: P-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	0.34	0.00
1.00	0.06	0.00	0.00	52.00	6.20	0.34	0.00
2.00	0.12	0.00	0.00	53.00	6.20	0.34	0.00
3.00	0.19	0.00	0.00	54.00	6.20	0.34	0.00
4.00	0.27	0.00	0.00	55.00	6.20	0.34	0.00
5.00	0.35	0.00	0.00	56.00	6.20	0.34	0.00
6.00	0.45	0.00	0.00	57.00	6.20	0.34	0.00
7.00	0.56	0.00	0.00	58.00	6.20	0.34	0.00
8.00	0.71	0.00	0.00	59.00	6.20	0.34	0.00
9.00	0.90	0.00	0.00	60.00	6.20	0.34	0.00
10.00	1.17	0.00	0.00	61.00	6.20	0.34	0.00
11.00	1.55	0.00	0.00	62.00	6.20	0.34	0.00
12.00	3.10	0.00	0.00	63.00	6.20	0.34	0.00
13.00	4.65	0.06	0.21	64.00	6.20	0.34	0.00
14.00	5.03	0.11	0.17	65.00	6.20	0.34	0.00
15.00	5.30	0.16	0.14	66.00	6.20	0.34	0.00
16.00	5.49	0.19	0.12	67.00	6.20	0.34	0.00
17.00	5.64	0.22	0.10	68.00	6.20	0.34	0.00
18.00	5.75	0.24	0.08	69.00	6.20	0.34	0.00
19.00	5.85	0.26	0.07	70.00	6.20	0.34	0.00
20.00	5.93	0.28	0.06	71.00	6.20	0.34	0.00
21.00	6.01	0.30	0.06	72.00	6.20	0.34	0.00
22.00	6.08	0.31	0.06	73.00	6.20	0.34	0.00
23.00	6.14	0.35	0.05	74.00	6.20	0.34	0.00
24.00	6.20	0.34	0.05	75.00	6.20	0.34	0.00
25.00	6.20	0.34	0.00	76.00	6.20	0.34	0.00
26.00	6.20	0.34	0.00	77.00	6.20	0.34	0.00
27.00	6.20	0.34	0.00	78.00	6.20	0.34	0.00
28.00	6.20	0.34	0.00	79.00	6.20	0.34	0.00
29.00	6.20	0.34	0.00	80.00	6.20	0.34	0.00
30.00	6.20	0.34	0.00	81.00	6.20	0.34	0.00
31.00	6.20	0.34	0.00	82.00	6.20	0.34	0.00
32.00	6.20	0.34	0.00	83.00	6.20	0.34	0.00
33.00	6.20	0.34	0.00	84.00	6.20	0.34	0.00
34.00	6.20	0.34	0.00	85.00	6.20	0.34	0.00
35.00	6.20	0.34	0.00	86.00	6.20	0.34	0.00
36.00	6.20	0.34	0.00	87.00	6.20	0.34	0.00
37.00	6.20	0.34	0.00	88.00	6.20	0.34	0.00
38.00	6.20	0.34	0.00	89.00	6.20	0.34	0.00
39.00	6.20	0.34	0.00	90.00	6.20	0.34	0.00
40.00	6.20	0.34	0.00	91.00	6.20	0.34	0.00
41.00	6.20	0.34	0.00	92.00	6.20	0.34	0.00
42.00	6.20	0.34	0.00	93.00	6.20	0.34	0.00
43.00	6.20	0.34	0.00	94.00	6.20	0.34	0.00
44.00	6.20	0.34	0.00	95.00	6.20	0.34	0.00
45.00	6.20	0.34	0.00	96.00	6.20	0.34	0.00
46.00	6.20	0.34	0.00	97.00	6.20	0.34	0.00
47.00	6.20	0.34	0.00	98.00	6.20	0.34	0.00
48.00	6.20	0.34	0.00	99.00	6.20	0.34	0.00
49.00	6.20	0.34	0.00	100.00	6.20	0.34	0.00
50.00	6.20	0.34	0.00				

Summary for Subcatchment 49S: P-100 IMP

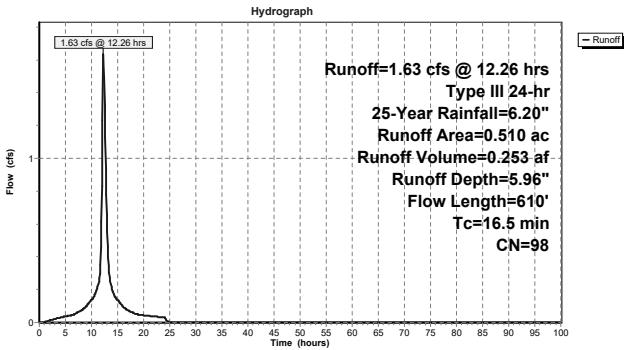
Runoff = 1.63 cfs @ 12.26 hrs, Volume= 0.253 af, Depth= 5.96"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
* 0.510	98	Unconnected pavement
0.510		100.00% Impervious Area
0.510		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 49S: P-100 IMP



Hydrograph for Subcatchment 49S: P-100 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	5.96	0.00
1.00	0.06	0.00	0.00	52.00	6.20	5.96	0.00
2.00	0.12	0.02	0.01	53.00	6.20	5.96	0.00
3.00	0.19	0.06	0.02	54.00	6.20	5.96	0.00
4.00	0.27	0.12	0.03	55.00	6.20	5.96	0.00
5.00	0.35	0.19	0.04	56.00	6.20	5.96	0.00
6.00	0.45	0.27	0.04	57.00	6.20	5.96	0.00
7.00	0.56	0.37	0.05	58.00	6.20	5.96	0.00
8.00	0.71	0.51	0.07	59.00	6.20	5.96	0.00
9.00	0.90	0.70	0.10	60.00	6.20	5.96	0.00
10.00	1.17	0.96	0.14	61.00	6.20	5.96	0.00
11.00	1.55	1.33	0.20	62.00	6.20	5.96	0.00
12.00	3.10	2.87	0.83	63.00	6.20	5.96	0.00
13.00	4.65	4.41	0.55	64.00	6.20	5.96	0.00
14.00	5.03	4.79	0.19	65.00	6.20	5.96	0.00
15.00	5.30	5.06	0.14	66.00	6.20	5.96	0.00
16.00	5.49	5.26	0.10	67.00	6.20	5.96	0.00
17.00	5.64	5.40	0.07	68.00	6.20	5.96	0.00
18.00	5.75	5.52	0.06	69.00	6.20	5.96	0.00
19.00	5.85	5.61	0.05	70.00	6.20	5.96	0.00
20.00	5.93	5.70	0.04	71.00	6.20	5.96	0.00
21.00	6.01	5.77	0.04	72.00	6.20	5.96	0.00
22.00	6.08	5.84	0.04	73.00	6.20	5.96	0.00
23.00	6.14	5.91	0.03	74.00	6.20	5.96	0.00
24.00	6.20	5.96	0.03	75.00	6.20	5.96	0.00
25.00	6.20	5.96	0.00	76.00	6.20	5.96	0.00
26.00	6.20	5.96	0.00	77.00	6.20	5.96	0.00
27.00	6.20	5.96	0.00	78.00	6.20	5.96	0.00
28.00	6.20	5.96	0.00	79.00	6.20	5.96	0.00
29.00	6.20	5.96	0.00	80.00	6.20	5.96	0.00
30.00	6.20	5.96	0.00	81.00	6.20	5.96	0.00
31.00	6.20	5.96	0.00	82.00	6.20	5.96	0.00
32.00	6.20	5.96	0.00	83.00	6.20	5.96	0.00
33.00	6.20	5.96	0.00	84.00	6.20	5.96	0.00
34.00	6.20	5.96	0.00	85.00	6.20	5.96	0.00
35.00	6.20	5.96	0.00	86.00	6.20	5.96	0.00
36.00	6.20	5.96	0.00	87.00	6.20	5.96	0.00
37.00	6.20	5.96	0.00	88.00	6.20	5.96	0.00
38.00	6.20	5.96	0.00	89.00	6.20	5.96	0.00
39.00	6.20	5.96	0.00	90.00	6.20	5.96	0.00
40.00	6.20	5.96	0.00	91.00	6.20	5.96	0.00
41.00	6.20	5.96	0.00	92.00	6.20	5.96	0.00
42.00	6.20	5.96	0.00	93.00	6.20	5.96	0.00
43.00	6.20	5.96	0.00	94.00	6.20	5.96	0.00
44.00	6.20	5.96	0.00	95.00	6.20	5.96	0.00
45.00	6.20	5.96	0.00	96.00	6.20	5.96	0.00
46.00	6.20	5.96	0.00	97.00	6.20	5.96	0.00
47.00	6.20	5.96	0.00	98.00	6.20	5.96	0.00
48.00	6.20	5.96	0.00	99.00	6.20	5.96	0.00
49.00	6.20	5.96	0.00	100.00	6.20	5.96	0.00
50.00	6.20	5.96	0.00				

Summary for Subcatchment 50S: P-200 IMP

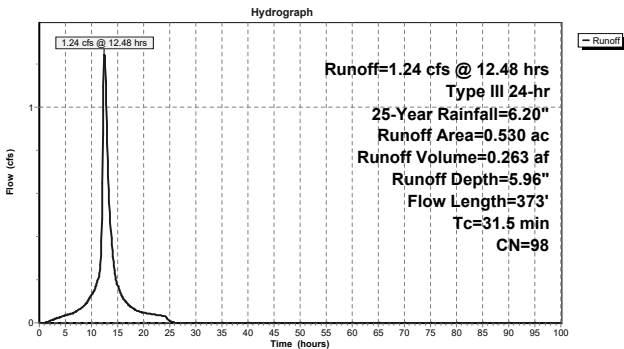
Runoff = 1.24 cfs @ 12.48 hrs, Volume= 0.263 af, Depth= 5.96"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
* 0.530	98	Unconnected pavement
0.530		100.00% Impervious Area
0.530		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 50S: P-200 IMP



Hydrograph for Subcatchment 50S: P-200 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	5.96	0.00
1.00	0.06	0.00	0.00	52.00	6.20	5.96	0.00
2.00	0.12	0.02	0.01	53.00	6.20	5.96	0.00
3.00	0.19	0.06	0.02	54.00	6.20	5.96	0.00
4.00	0.27	0.12	0.03	55.00	6.20	5.96	0.00
5.00	0.35	0.19	0.03	56.00	6.20	5.96	0.00
6.00	0.45	0.27	0.04	57.00	6.20	5.96	0.00
7.00	0.56	0.37	0.05	58.00	6.20	5.96	0.00
8.00	0.71	0.51	0.07	59.00	6.20	5.96	0.00
9.00	0.90	0.70	0.09	60.00	6.20	5.96	0.00
10.00	1.17	0.96	0.13	61.00	6.20	5.96	0.00
11.00	1.55	1.33	0.18	62.00	6.20	5.96	0.00
12.00	3.10	2.87	0.48	63.00	6.20	5.96	0.00
13.00	4.65	4.41	0.83	64.00	6.20	5.96	0.00
14.00	5.03	4.79	0.33	65.00	6.20	5.96	0.00
15.00	5.30	5.06	0.17	66.00	6.20	5.96	0.00
16.00	5.49	5.26	0.12	67.00	6.20	5.96	0.00
17.00	5.64	5.40	0.09	68.00	6.20	5.96	0.00
18.00	5.75	5.52	0.07	69.00	6.20	5.96	0.00
19.00	5.85	5.61	0.05	70.00	6.20	5.96	0.00
20.00	5.93	5.70	0.05	71.00	6.20	5.96	0.00
21.00	6.01	5.77	0.04	72.00	6.20	5.96	0.00
22.00	6.08	5.84	0.04	73.00	6.20	5.96	0.00
23.00	6.14	5.91	0.03	74.00	6.20	5.96	0.00
24.00	6.20	5.96	0.03	75.00	6.20	5.96	0.00
25.00	6.20	5.96	0.01	76.00	6.20	5.96	0.00
26.00	6.20	5.96	0.00	77.00	6.20	5.96	0.00
27.00	6.20	5.96	0.00	78.00	6.20	5.96	0.00
28.00	6.20	5.96	0.00	79.00	6.20	5.96	0.00
29.00	6.20	5.96	0.00	80.00	6.20	5.96	0.00
30.00	6.20	5.96	0.00	81.00	6.20	5.96	0.00
31.00	6.20	5.96	0.00	82.00	6.20	5.96	0.00
32.00	6.20	5.96	0.00	83.00	6.20	5.96	0.00
33.00	6.20	5.96	0.00	84.00	6.20	5.96	0.00
34.00	6.20	5.96	0.00	85.00	6.20	5.96	0.00
35.00	6.20	5.96	0.00	86.00	6.20	5.96	0.00
36.00	6.20	5.96	0.00	87.00	6.20	5.96	0.00
37.00	6.20	5.96	0.00	88.00	6.20	5.96	0.00
38.00	6.20	5.96	0.00	89.00	6.20	5.96	0.00
39.00	6.20	5.96	0.00	90.00	6.20	5.96	0.00
40.00	6.20	5.96	0.00	91.00	6.20	5.96	0.00
41.00	6.20	5.96	0.00	92.00	6.20	5.96	0.00
42.00	6.20	5.96	0.00	93.00	6.20	5.96	0.00
43.00	6.20	5.96	0.00	94.00	6.20	5.96	0.00
44.00	6.20	5.96	0.00	95.00	6.20	5.96	0.00
45.00	6.20	5.96	0.00	96.00	6.20	5.96	0.00
46.00	6.20	5.96	0.00	97.00	6.20	5.96	0.00
47.00	6.20	5.96	0.00	98.00	6.20	5.96	0.00
48.00	6.20	5.96	0.00	99.00	6.20	5.96	0.00
49.00	6.20	5.96	0.00	100.00	6.20	5.96	0.00
50.00	6.20	5.96	0.00				

Summary for Subcatchment 51S: P-300 IMP

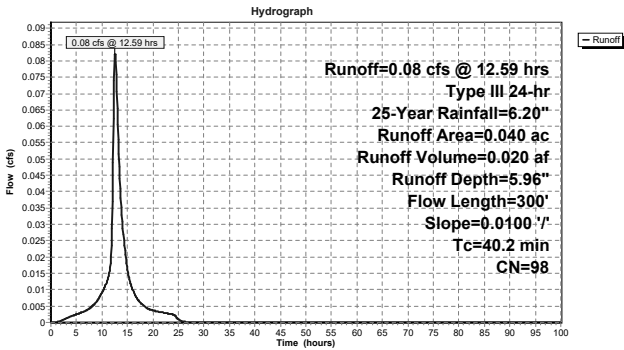
Runoff = 0.08 cfs @ 12.59 hrs, Volume= 0.020 af, Depth= 5.96"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
0.040	98	Unconnected pavement
0.040		100.00% Impervious Area
0.040		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 51S: P-300 IMP



Hydrograph for Subcatchment 51S: P-300 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	5.96	0.00
1.00	0.06	0.00	0.00	52.00	6.20	5.96	0.00
2.00	0.12	0.02	0.00	53.00	6.20	5.96	0.00
3.00	0.19	0.06	0.00	54.00	6.20	5.96	0.00
4.00	0.27	0.12	0.00	55.00	6.20	5.96	0.00
5.00	0.35	0.19	0.00	56.00	6.20	5.96	0.00
6.00	0.45	0.27	0.00	57.00	6.20	5.96	0.00
7.00	0.56	0.37	0.00	58.00	6.20	5.96	0.00
8.00	0.71	0.51	0.00	59.00	6.20	5.96	0.00
9.00	0.90	0.70	0.01	60.00	6.20	5.96	0.00
10.00	1.17	0.96	0.01	61.00	6.20	5.96	0.00
11.00	1.55	1.33	0.01	62.00	6.20	5.96	0.00
12.00	3.10	2.87	0.03	63.00	6.20	5.96	0.00
13.00	4.65	4.41	0.07	64.00	6.20	5.96	0.00
14.00	5.03	4.79	0.03	65.00	6.20	5.96	0.00
15.00	5.30	5.06	0.02	66.00	6.20	5.96	0.00
16.00	5.49	5.26	0.01	67.00	6.20	5.96	0.00
17.00	5.64	5.40	0.01	68.00	6.20	5.96	0.00
18.00	5.75	5.52	0.01	69.00	6.20	5.96	0.00
19.00	5.85	5.61	0.00	70.00	6.20	5.96	0.00
20.00	5.93	5.70	0.00	71.00	6.20	5.96	0.00
21.00	6.01	5.77	0.00	72.00	6.20	5.96	0.00
22.00	6.08	5.84	0.00	73.00	6.20	5.96	0.00
23.00	6.14	5.91	0.00	74.00	6.20	5.96	0.00
24.00	6.20	5.96	0.00	75.00	6.20	5.96	0.00
25.00	6.20	5.96	0.00	76.00	6.20	5.96	0.00
26.00	6.20	5.96	0.00	77.00	6.20	5.96	0.00
27.00	6.20	5.96	0.00	78.00	6.20	5.96	0.00
28.00	6.20	5.96	0.00	79.00	6.20	5.96	0.00
29.00	6.20	5.96	0.00	80.00	6.20	5.96	0.00
30.00	6.20	5.96	0.00	81.00	6.20	5.96	0.00
31.00	6.20	5.96	0.00	82.00	6.20	5.96	0.00
32.00	6.20	5.96	0.00	83.00	6.20	5.96	0.00
33.00	6.20	5.96	0.00	84.00	6.20	5.96	0.00
34.00	6.20	5.96	0.00	85.00	6.20	5.96	0.00
35.00	6.20	5.96	0.00	86.00	6.20	5.96	0.00
36.00	6.20	5.96	0.00	87.00	6.20	5.96	0.00
37.00	6.20	5.96	0.00	88.00	6.20	5.96	0.00
38.00	6.20	5.96	0.00	89.00	6.20	5.96	0.00
39.00	6.20	5.96	0.00	90.00	6.20	5.96	0.00
40.00	6.20	5.96	0.00	91.00	6.20	5.96	0.00
41.00	6.20	5.96	0.00	92.00	6.20	5.96	0.00
42.00	6.20	5.96	0.00	93.00	6.20	5.96	0.00
43.00	6.20	5.96	0.00	94.00	6.20	5.96	0.00
44.00	6.20	5.96	0.00	95.00	6.20	5.96	0.00
45.00	6.20	5.96	0.00	96.00	6.20	5.96	0.00
46.00	6.20	5.96	0.00	97.00	6.20	5.96	0.00
47.00	6.20	5.96	0.00	98.00	6.20	5.96	0.00
48.00	6.20	5.96	0.00	99.00	6.20	5.96	0.00
49.00	6.20	5.96	0.00	100.00	6.20	5.96	0.00
50.00	6.20	5.96	0.00				

Summary for Subcatchment 52S: P-400 IMP

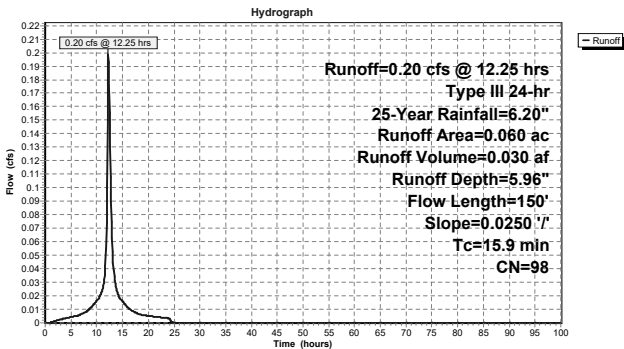
Runoff = 0.20 cfs @ 12.25 hrs, Volume= 0.030 af, Depth= 5.96"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
0.060	98	Unconnected pavement
0.060		100.00% Impervious Area
0.060		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 52S: P-400 IMP



Hydrograph for Subcatchment 52S: P-400 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	5.96	0.00
1.00	0.06	0.00	0.00	52.00	6.20	5.96	0.00
2.00	0.12	0.02	0.00	53.00	6.20	5.96	0.00
3.00	0.19	0.06	0.00	54.00	6.20	5.96	0.00
4.00	0.27	0.12	0.00	55.00	6.20	5.96	0.00
5.00	0.35	0.19	0.00	56.00	6.20	5.96	0.00
6.00	0.45	0.27	0.01	57.00	6.20	5.96	0.00
7.00	0.56	0.37	0.01	58.00	6.20	5.96	0.00
8.00	0.71	0.51	0.01	59.00	6.20	5.96	0.00
9.00	0.90	0.70	0.01	60.00	6.20	5.96	0.00
10.00	1.17	0.96	0.02	61.00	6.20	5.96	0.00
11.00	1.55	1.33	0.02	62.00	6.20	5.96	0.00
12.00	3.10	2.87	0.10	63.00	6.20	5.96	0.00
13.00	4.65	4.41	0.06	64.00	6.20	5.96	0.00
14.00	5.03	4.79	0.02	65.00	6.20	5.96	0.00
15.00	5.30	5.06	0.02	66.00	6.20	5.96	0.00
16.00	5.49	5.26	0.01	67.00	6.20	5.96	0.00
17.00	5.64	5.40	0.01	68.00	6.20	5.96	0.00
18.00	5.75	5.52	0.01	69.00	6.20	5.96	0.00
19.00	5.85	5.61	0.01	70.00	6.20	5.96	0.00
20.00	5.93	5.70	0.01	71.00	6.20	5.96	0.00
21.00	6.01	5.77	0.00	72.00	6.20	5.96	0.00
22.00	6.08	5.84	0.00	73.00	6.20	5.96	0.00
23.00	6.14	5.91	0.00	74.00	6.20	5.96	0.00
24.00	6.20	5.96	0.00	75.00	6.20	5.96	0.00
25.00	6.20	5.96	0.00	76.00	6.20	5.96	0.00
26.00	6.20	5.96	0.00	77.00	6.20	5.96	0.00
27.00	6.20	5.96	0.00	78.00	6.20	5.96	0.00
28.00	6.20	5.96	0.00	79.00	6.20	5.96	0.00
29.00	6.20	5.96	0.00	80.00	6.20	5.96	0.00
30.00	6.20	5.96	0.00	81.00	6.20	5.96	0.00
31.00	6.20	5.96	0.00	82.00	6.20	5.96	0.00
32.00	6.20	5.96	0.00	83.00	6.20	5.96	0.00
33.00	6.20	5.96	0.00	84.00	6.20	5.96	0.00
34.00	6.20	5.96	0.00	85.00	6.20	5.96	0.00
35.00	6.20	5.96	0.00	86.00	6.20	5.96	0.00
36.00	6.20	5.96	0.00	87.00	6.20	5.96	0.00
37.00	6.20	5.96	0.00	88.00	6.20	5.96	0.00
38.00	6.20	5.96	0.00	89.00	6.20	5.96	0.00
39.00	6.20	5.96	0.00	90.00	6.20	5.96	0.00
40.00	6.20	5.96	0.00	91.00	6.20	5.96	0.00
41.00	6.20	5.96	0.00	92.00	6.20	5.96	0.00
42.00	6.20	5.96	0.00	93.00	6.20	5.96	0.00
43.00	6.20	5.96	0.00	94.00	6.20	5.96	0.00
44.00	6.20	5.96	0.00	95.00	6.20	5.96	0.00
45.00	6.20	5.96	0.00	96.00	6.20	5.96	0.00
46.00	6.20	5.96	0.00	97.00	6.20	5.96	0.00
47.00	6.20	5.96	0.00	98.00	6.20	5.96	0.00
48.00	6.20	5.96	0.00	99.00	6.20	5.96	0.00
49.00	6.20	5.96	0.00	100.00	6.20	5.96	0.00
50.00	6.20	5.96	0.00				

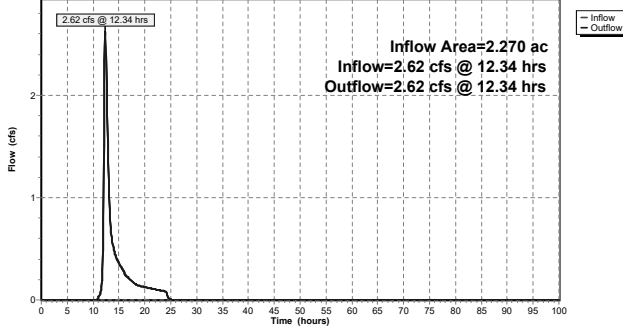
Summary for Reach 6R: E-100

Inflow Area = 2.270 ac, 0.00% Impervious, Inflow Depth = 2.05" for 25-Year event
 Inflow = 2.62 cfs @ 12.34 hrs, Volume= 0.388 af
 Outflow = 2.62 cfs @ 12.34 hrs, Volume= 0.388 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 6R: E-100

Hydrograph



Hydrograph for Reach 6R: E-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.02	0.02	0.02	62.00	0.00		0.00
12.00	0.81		0.81	63.00	0.00		0.00
13.00	1.16		1.16	64.00	0.00		0.00
14.00	0.49	0.49	0.49	65.00	0.00		0.00
15.00	0.36	0.36	0.36	66.00	0.00		0.00
16.00	0.27	0.27	0.27	67.00	0.00		0.00
17.00	0.21	0.21	0.21	68.00	0.00		0.00
18.00	0.16	0.16	0.16	69.00	0.00		0.00
19.00	0.14	0.14	0.14	70.00	0.00		0.00
20.00	0.13	0.13	0.13	71.00	0.00		0.00
21.00	0.11	0.11	0.11	72.00	0.00		0.00
22.00	0.10	0.10	0.10	73.00	0.00		0.00
23.00	0.09	0.09	0.09	74.00	0.00		0.00
24.00	0.08	0.08	0.08	75.00	0.00		0.00
25.00	0.00	0.00	0.00	76.00	0.00		0.00
26.00	0.00	0.00	0.00	77.00	0.00		0.00
27.00	0.00	0.00	0.00	78.00	0.00		0.00
28.00	0.00	0.00	0.00	79.00	0.00		0.00
29.00	0.00	0.00	0.00	80.00	0.00		0.00
30.00	0.00	0.00	0.00	81.00	0.00		0.00
31.00	0.00	0.00	0.00	82.00	0.00		0.00
32.00	0.00	0.00	0.00	83.00	0.00		0.00
33.00	0.00	0.00	0.00	84.00	0.00		0.00
34.00	0.00	0.00	0.00	85.00	0.00		0.00
35.00	0.00	0.00	0.00	86.00	0.00		0.00
36.00	0.00	0.00	0.00	87.00	0.00		0.00
37.00	0.00	0.00	0.00	88.00	0.00		0.00
38.00	0.00	0.00	0.00	89.00	0.00		0.00
39.00	0.00	0.00	0.00	90.00	0.00		0.00
40.00	0.00	0.00	0.00	91.00	0.00		0.00
41.00	0.00	0.00	0.00	92.00	0.00		0.00
42.00	0.00	0.00	0.00	93.00	0.00		0.00
43.00	0.00	0.00	0.00	94.00	0.00		0.00
44.00	0.00	0.00	0.00	95.00	0.00		0.00
45.00	0.00	0.00	0.00	96.00	0.00		0.00
46.00	0.00	0.00	0.00	97.00	0.00		0.00
47.00	0.00	0.00	0.00	98.00	0.00		0.00
48.00	0.00	0.00	0.00	99.00	0.00		0.00
49.00	0.00	0.00	0.00	100.00	0.00		0.00
50.00	0.00		0.00				

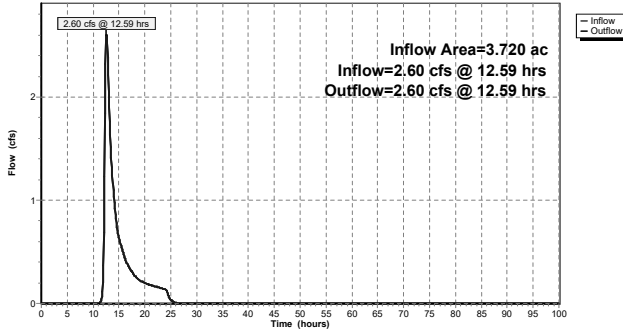
Summary for Reach 7R: E-200

Inflow Area = 3.720 ac, 0.00% Impervious, Inflow Depth = 1.80" for 25-Year event
 Inflow = 2.60 cfs @ 12.59 hrs, Volume= 0.558 af
 Outflow = 2.60 cfs @ 12.59 hrs, Volume= 0.558 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 7R: E-200

Hydrograph



Hydrograph for Reach 7R: E-200

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.37		0.37	63.00	0.00		0.00
13.00	2.05		2.05	64.00	0.00		0.00
14.00	1.03	1.03	1.03	65.00	0.00		0.00
15.00	0.64	0.64	0.64	66.00	0.00		0.00
16.00	0.46	0.46	0.46	67.00	0.00		0.00
17.00	0.35	0.35	0.35	68.00	0.00		0.00
18.00	0.27	0.27	0.27	69.00	0.00		0.00
19.00	0.22	0.22	0.22	70.00	0.00		0.00
20.00	0.20	0.20	0.20	71.00	0.00		0.00
21.00	0.18	0.18	0.18	72.00	0.00		0.00
22.00	0.17	0.17	0.17	73.00	0.00		0.00
23.00	0.15	0.15	0.15	74.00	0.00		0.00
24.00	0.13	0.13	0.13	75.00	0.00		0.00
25.00	0.04	0.04	0.04	76.00	0.00		0.00
26.00	0.01	0.01	0.01	77.00	0.00		0.00
27.00	0.00	0.00	0.00	78.00	0.00		0.00
28.00	0.00	0.00	0.00	79.00	0.00		0.00
29.00	0.00	0.00	0.00	80.00	0.00		0.00
30.00	0.00	0.00	0.00	81.00	0.00		0.00
31.00	0.00	0.00	0.00	82.00	0.00		0.00
32.00	0.00	0.00	0.00	83.00	0.00		0.00
33.00	0.00	0.00	0.00	84.00	0.00		0.00
34.00	0.00	0.00	0.00	85.00	0.00		0.00
35.00	0.00	0.00	0.00	86.00	0.00		0.00
36.00	0.00	0.00	0.00	87.00	0.00		0.00
37.00	0.00	0.00	0.00	88.00	0.00		0.00
38.00	0.00	0.00	0.00	89.00	0.00		0.00
39.00	0.00	0.00	0.00	90.00	0.00		0.00
40.00	0.00	0.00	0.00	91.00	0.00		0.00
41.00	0.00	0.00	0.00	92.00	0.00		0.00
42.00	0.00	0.00	0.00	93.00	0.00		0.00
43.00	0.00	0.00	0.00	94.00	0.00		0.00
44.00	0.00	0.00	0.00	95.00	0.00		0.00
45.00	0.00	0.00	0.00	96.00	0.00		0.00
46.00	0.00	0.00	0.00	97.00	0.00		0.00
47.00	0.00	0.00	0.00	98.00	0.00		0.00
48.00	0.00	0.00	0.00	99.00	0.00		0.00
49.00	0.00	0.00	0.00	100.00	0.00		0.00
50.00	0.00		0.00				

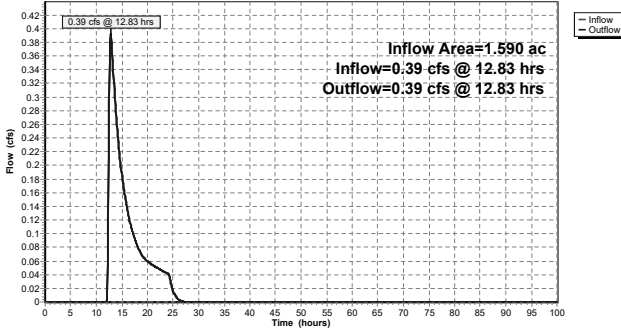
Summary for Reach 8R: E-300

Inflow Area = 1.590 ac, 0.00% Impervious, Inflow Depth = 0.95" for 25-Year event
 Inflow = 0.39 cfs @ 12.83 hrs, Volume= 0.126 af
 Outflow = 0.39 cfs @ 12.83 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 8R: E-300

Hydrograph



Hydrograph for Reach 8R: E-300

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.38		0.38	64.00	0.00		0.00
14.00	0.26		0.26	65.00	0.00		0.00
15.00	0.18		0.18	66.00	0.00		0.00
16.00	0.14		0.14	67.00	0.00		0.00
17.00	0.10		0.10	68.00	0.00		0.00
18.00	0.08		0.08	69.00	0.00		0.00
19.00	0.07		0.07	70.00	0.00		0.00
20.00	0.06		0.06	71.00	0.00		0.00
21.00	0.05		0.05	72.00	0.00		0.00
22.00	0.05		0.05	73.00	0.00		0.00
23.00	0.05		0.05	74.00	0.00		0.00
24.00	0.04		0.04	75.00	0.00		0.00
25.00	0.02		0.02	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

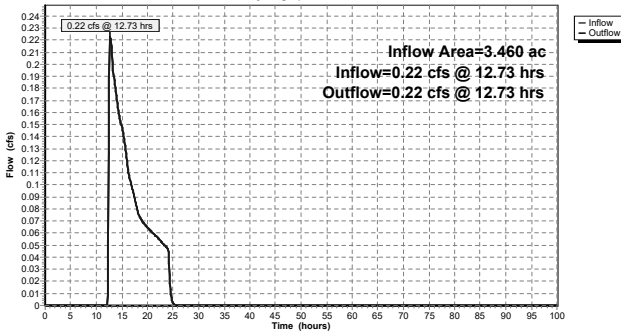
Summary for Reach 22R: E-400

Inflow Area = 3.460 ac, 0.00% Impervious, Inflow Depth = 0.34" for 25-Year event
 Inflow = 0.22 cfs @ 12.73 hrs, Volume= 0.099 af
 Outflow = 0.22 cfs @ 12.73 hrs, Volume= 0.099 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 22R: E-400

Hydrograph



Hydrograph for Reach 22R: E-400

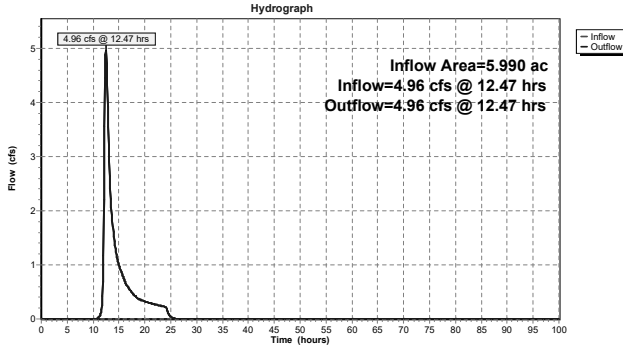
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.21		0.21	64.00	0.00		0.00
14.00	0.17		0.17	65.00	0.00		0.00
15.00	0.15		0.15	66.00	0.00		0.00
16.00	0.12		0.12	67.00	0.00		0.00
17.00	0.10		0.10	68.00	0.00		0.00
18.00	0.08		0.08	69.00	0.00		0.00
19.00	0.07		0.07	70.00	0.00		0.00
20.00	0.06		0.06	71.00	0.00		0.00
21.00	0.06		0.06	72.00	0.00		0.00
22.00	0.06		0.06	73.00	0.00		0.00
23.00	0.05		0.05	74.00	0.00		0.00
24.00	0.05		0.05	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 23R: E-POA "A"

Inflow Area = 5.990 ac, 0.00% Impervious, Inflow Depth = 1.90" for 25-Year event
 Inflow = 4.96 cfs @ 12.47 hrs, Volume= 0.946 af
 Outflow = 4.96 cfs @ 12.47 hrs, Volume= 0.946 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 23R: E-POA "A"



Hydrograph for Reach 23R: E-POA "A"

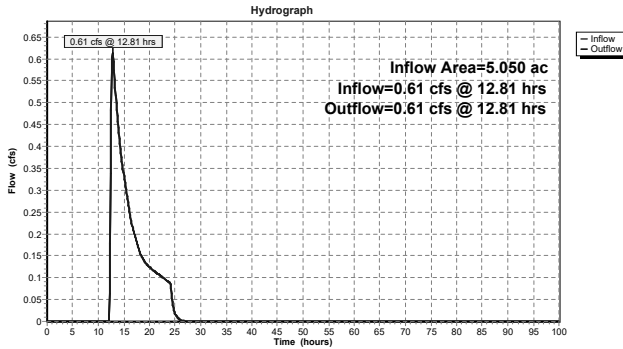
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.02	0.02	0.02	62.00	0.00	0.00	0.00
12.00	1.18	1.18	1.18	63.00	0.00	0.00	0.00
13.00	3.22	3.22	3.22	64.00	0.00	0.00	0.00
14.00	1.52	1.52	1.52	65.00	0.00	0.00	0.00
15.00	1.00	1.00	1.00	66.00	0.00	0.00	0.00
16.00	0.73	0.73	0.73	67.00	0.00	0.00	0.00
17.00	0.55	0.55	0.55	68.00	0.00	0.00	0.00
18.00	0.44	0.44	0.44	69.00	0.00	0.00	0.00
19.00	0.36	0.36	0.36	70.00	0.00	0.00	0.00
20.00	0.32	0.32	0.32	71.00	0.00	0.00	0.00
21.00	0.29	0.29	0.29	72.00	0.00	0.00	0.00
22.00	0.27	0.27	0.27	73.00	0.00	0.00	0.00
23.00	0.24	0.24	0.24	74.00	0.00	0.00	0.00
24.00	0.22	0.22	0.22	75.00	0.00	0.00	0.00
25.00	0.04	0.04	0.04	76.00	0.00	0.00	0.00
26.00	0.01	0.01	0.01	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 25R: E-POA "B"

Inflow Area = 5.050 ac, 0.00% Impervious, Inflow Depth = 0.53" for 25-Year event
 Inflow = 0.61 cfs @ 12.81 hrs, Volume= 0.225 af
 Outflow = 0.61 cfs @ 12.81 hrs, Volume= 0.225 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 25R: E-POA "B"



Hydrograph for Reach 25R: E-POA "B"

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
13.00	0.59	0.59	0.59	64.00	0.00	0.00	0.00
14.00	0.43	0.43	0.43	65.00	0.00	0.00	0.00
15.00	0.33	0.33	0.33	66.00	0.00	0.00	0.00
16.00	0.26	0.26	0.26	67.00	0.00	0.00	0.00
17.00	0.20	0.20	0.20	68.00	0.00	0.00	0.00
18.00	0.16	0.16	0.16	69.00	0.00	0.00	0.00
19.00	0.14	0.14	0.14	70.00	0.00	0.00	0.00
20.00	0.12	0.12	0.12	71.00	0.00	0.00	0.00
21.00	0.11	0.11	0.11	72.00	0.00	0.00	0.00
22.00	0.11	0.11	0.11	73.00	0.00	0.00	0.00
23.00	0.10	0.10	0.10	74.00	0.00	0.00	0.00
24.00	0.09	0.09	0.09	75.00	0.00	0.00	0.00
25.00	0.02	0.02	0.02	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

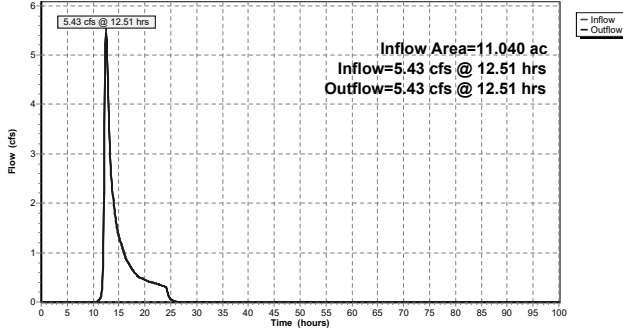
Summary for Reach 26R: E-POA

Inflow Area = 11.040 ac, 0.00% Impervious, Inflow Depth = 1.27" for 25-Year event
 Inflow = 5.43 cfs @ 12.51 hrs, Volume= 1.171 af
 Outflow = 5.43 cfs @ 12.51 hrs, Volume= 1.171 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 26R: E-POA

Hydrograph



Hydrograph for Reach 26R: E-POA

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.02	0.02	0.02	62.00	0.00	0.00	0.00
12.00	1.18	1.18	1.18	63.00	0.00	0.00	0.00
13.00	3.81	3.81	3.81	64.00	0.00	0.00	0.00
14.00	1.95	1.95	1.95	65.00	0.00	0.00	0.00
15.00	1.33	1.33	1.33	66.00	0.00	0.00	0.00
16.00	0.99	0.99	0.99	67.00	0.00	0.00	0.00
17.00	0.75	0.75	0.75	68.00	0.00	0.00	0.00
18.00	0.60	0.60	0.60	69.00	0.00	0.00	0.00
19.00	0.50	0.50	0.50	70.00	0.00	0.00	0.00
20.00	0.45	0.45	0.45	71.00	0.00	0.00	0.00
21.00	0.41	0.41	0.41	72.00	0.00	0.00	0.00
22.00	0.38	0.38	0.38	73.00	0.00	0.00	0.00
23.00	0.34	0.34	0.34	74.00	0.00	0.00	0.00
24.00	0.31	0.31	0.31	75.00	0.00	0.00	0.00
25.00	0.28	0.28	0.28	76.00	0.00	0.00	0.00
26.00	0.26	0.26	0.26	77.00	0.00	0.00	0.00
27.00	0.24	0.24	0.24	78.00	0.00	0.00	0.00
28.00	0.22	0.22	0.22	79.00	0.00	0.00	0.00
29.00	0.20	0.20	0.20	80.00	0.00	0.00	0.00
30.00	0.19	0.19	0.19	81.00	0.00	0.00	0.00
31.00	0.18	0.18	0.18	82.00	0.00	0.00	0.00
32.00	0.17	0.17	0.17	83.00	0.00	0.00	0.00
33.00	0.16	0.16	0.16	84.00	0.00	0.00	0.00
34.00	0.15	0.15	0.15	85.00	0.00	0.00	0.00
35.00	0.14	0.14	0.14	86.00	0.00	0.00	0.00
36.00	0.13	0.13	0.13	87.00	0.00	0.00	0.00
37.00	0.12	0.12	0.12	88.00	0.00	0.00	0.00
38.00	0.11	0.11	0.11	89.00	0.00	0.00	0.00
39.00	0.10	0.10	0.10	90.00	0.00	0.00	0.00
40.00	0.09	0.09	0.09	91.00	0.00	0.00	0.00
41.00	0.08	0.08	0.08	92.00	0.00	0.00	0.00
42.00	0.07	0.07	0.07	93.00	0.00	0.00	0.00
43.00	0.06	0.06	0.06	94.00	0.00	0.00	0.00
44.00	0.05	0.05	0.05	95.00	0.00	0.00	0.00
45.00	0.04	0.04	0.04	96.00	0.00	0.00	0.00
46.00	0.03	0.03	0.03	97.00	0.00	0.00	0.00
47.00	0.02	0.02	0.02	98.00	0.00	0.00	0.00
48.00	0.01	0.01	0.01	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

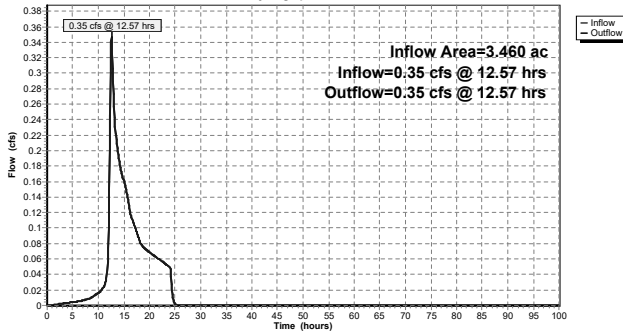
Summary for Reach 38R: P-400

Inflow Area = 3.460 ac, 1.73% Impervious, Inflow Depth = 0.44" for 25-Year event
 Inflow = 0.35 cfs @ 12.57 hrs, Volume= 0.127 af
 Outflow = 0.35 cfs @ 12.57 hrs, Volume= 0.127 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 38R: P-400

Hydrograph



Hydrograph for Reach 38R: P-400

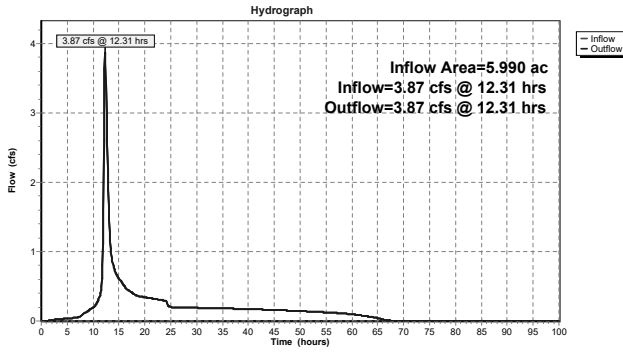
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.01	0.01	0.01	57.00	0.00	0.00	0.00
7.00	0.01	0.01	0.01	58.00	0.00	0.00	0.00
8.00	0.01	0.01	0.01	59.00	0.00	0.00	0.00
9.00	0.01	0.01	0.01	60.00	0.00	0.00	0.00
10.00	0.02	0.02	0.02	61.00	0.00	0.00	0.00
11.00	0.02	0.02	0.02	62.00	0.00	0.00	0.00
12.00	0.10	0.10	0.10	63.00	0.00	0.00	0.00
13.00	0.27	0.27	0.27	64.00	0.00	0.00	0.00
14.00	0.19	0.19	0.19	65.00	0.00	0.00	0.00
15.00	0.16	0.16	0.16	66.00	0.00	0.00	0.00
16.00	0.13	0.13	0.13	67.00	0.00	0.00	0.00
17.00	0.10	0.10	0.10	68.00	0.00	0.00	0.00
18.00	0.09	0.09	0.09	69.00	0.00	0.00	0.00
19.00	0.07	0.07	0.07	70.00	0.00	0.00	0.00
20.00	0.07	0.07	0.07	71.00	0.00	0.00	0.00
21.00	0.06	0.06	0.06	72.00	0.00	0.00	0.00
22.00	0.06	0.06	0.06	73.00	0.00	0.00	0.00
23.00	0.05	0.05	0.05	74.00	0.00	0.00	0.00
24.00	0.05	0.05	0.05	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 39R: P-POA "A"

Inflow Area = 5.990 ac, 17.36% Impervious, Inflow Depth = 2.58" for 25-Year event
 Inflow = 3.87 cfs @ 12.31 hrs, Volume= 1.290 af
 Outflow = 3.87 cfs @ 12.31 hrs, Volume= 1.290 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 39R: P-POA "A"



Hydrograph for Reach 39R: P-POA "A"

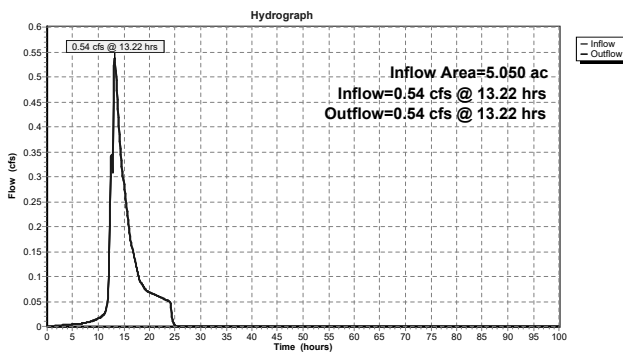
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.14		0.14
1.00	0.00		0.00	52.00	0.14		0.14
2.00	0.01		0.01	53.00	0.13		0.13
3.00	0.02		0.02	54.00	0.13		0.13
4.00	0.03		0.03	55.00	0.13		0.13
5.00	0.04		0.04	56.00	0.12		0.12
6.00	0.04		0.04	57.00	0.12		0.12
7.00	0.05		0.05	58.00	0.11		0.11
8.00	0.09		0.09	59.00	0.10		0.10
9.00	0.14		0.14	60.00	0.10		0.10
10.00	0.20		0.20	61.00	0.09		0.09
11.00	0.30		0.30	62.00	0.08		0.08
12.00	1.61		1.61	63.00	0.07		0.07
13.00	1.66		1.66	64.00	0.06		0.06
14.00	0.77		0.77	65.00	0.04		0.04
15.00	0.61		0.61	66.00	0.02		0.02
16.00	0.51		0.51	67.00	0.01		0.01
17.00	0.43		0.43	68.00	0.00		0.00
18.00	0.38		0.38	69.00	0.00		0.00
19.00	0.36		0.36	70.00	0.00		0.00
20.00	0.34		0.34	71.00	0.00		0.00
21.00	0.33		0.33	72.00	0.00		0.00
22.00	0.32		0.32	73.00	0.00		0.00
23.00	0.31		0.31	74.00	0.00		0.00
24.00	0.29		0.29	75.00	0.00		0.00
25.00	0.20		0.20	76.00	0.00		0.00
26.00	0.20		0.20	77.00	0.00		0.00
27.00	0.19		0.19	78.00	0.00		0.00
28.00	0.19		0.19	79.00	0.00		0.00
29.00	0.19		0.19	80.00	0.00		0.00
30.00	0.19		0.19	81.00	0.00		0.00
31.00	0.19		0.19	82.00	0.00		0.00
32.00	0.19		0.19	83.00	0.00		0.00
33.00	0.18		0.18	84.00	0.00		0.00
34.00	0.18		0.18	85.00	0.00		0.00
35.00	0.18		0.18	86.00	0.00		0.00
36.00	0.18		0.18	87.00	0.00		0.00
37.00	0.18		0.18	88.00	0.00		0.00
38.00	0.18		0.18	89.00	0.00		0.00
39.00	0.17		0.17	90.00	0.00		0.00
40.00	0.17		0.17	91.00	0.00		0.00
41.00	0.17		0.17	92.00	0.00		0.00
42.00	0.17		0.17	93.00	0.00		0.00
43.00	0.16		0.16	94.00	0.00		0.00
44.00	0.16		0.16	95.00	0.00		0.00
45.00	0.16		0.16	96.00	0.00		0.00
46.00	0.16		0.16	97.00	0.00		0.00
47.00	0.15		0.15	98.00	0.00		0.00
48.00	0.15		0.15	99.00	0.00		0.00
49.00	0.15		0.15	100.00	0.00		0.00
50.00	0.14		0.14				

Summary for Reach 40R: P-POA "B"

Inflow Area = 5.050 ac, 1.98% Impervious, Inflow Depth = 0.42" for 25-Year event
 Inflow = 0.54 cfs @ 13.22 hrs, Volume= 0.177 af
 Outflow = 0.54 cfs @ 13.22 hrs, Volume= 0.177 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 40R: P-POA "B"



Hydrograph for Reach 40R: P-POA "B"

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.01		0.01	57.00	0.00		0.00
7.00	0.01		0.01	58.00	0.00		0.00
8.00	0.01		0.01	59.00	0.00		0.00
9.00	0.01		0.01	60.00	0.00		0.00
10.00	0.02		0.02	61.00	0.00		0.00
11.00	0.02		0.02	62.00	0.00		0.00
12.00	0.10		0.10	63.00	0.00		0.00
13.00	0.45		0.45	64.00	0.00		0.00
14.00	0.40		0.40	65.00	0.00		0.00
15.00	0.28		0.28	66.00	0.00		0.00
16.00	0.20		0.20	67.00	0.00		0.00
17.00	0.14		0.14	68.00	0.00		0.00
18.00	0.10		0.10	69.00	0.00		0.00
19.00	0.08		0.08	70.00	0.00		0.00
20.00	0.07		0.07	71.00	0.00		0.00
21.00	0.06		0.06	72.00	0.00		0.00
22.00	0.06		0.06	73.00	0.00		0.00
23.00	0.05		0.05	74.00	0.00		0.00
24.00	0.05		0.05	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

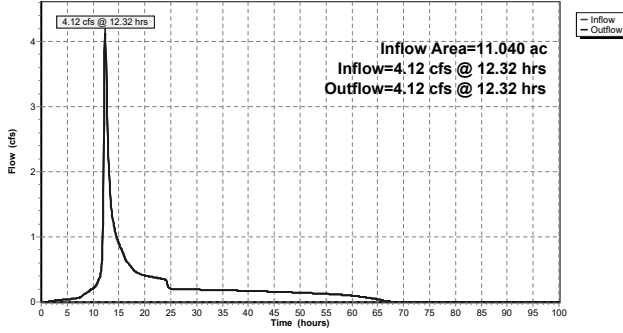
Summary for Reach 41R: P-POA

Inflow Area = 11.040 ac, 10.33% Impervious, Inflow Depth = 1.59" for 25-Year event
 Inflow = 4.12 cfs @ 12.32 hrs, Volume= 1.467 af
 Outflow = 4.12 cfs @ 12.32 hrs, Volume= 1.467 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 41R: P-POA

Hydrograph



Hydrograph for Reach 41R: P-POA

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.14	0.14	0.14
1.00	0.00	0.00	0.00	52.00	0.14	0.14	0.14
2.00	0.01	0.01	0.01	53.00	0.13	0.13	0.13
3.00	0.02	0.02	0.02	54.00	0.13	0.13	0.13
4.00	0.03	0.03	0.03	55.00	0.13	0.13	0.13
5.00	0.04	0.04	0.04	56.00	0.12	0.12	0.12
6.00	0.05	0.05	0.05	57.00	0.12	0.12	0.12
7.00	0.06	0.06	0.06	58.00	0.11	0.11	0.11
8.00	0.10	0.10	0.10	59.00	0.10	0.10	0.10
9.00	0.16	0.16	0.16	60.00	0.10	0.10	0.10
10.00	0.21	0.21	0.21	61.00	0.09	0.09	0.09
11.00	0.32	0.32	0.32	62.00	0.08	0.08	0.08
12.00	1.71	1.71	1.71	63.00	0.07	0.07	0.07
13.00	2.11	2.11	2.11	64.00	0.06	0.06	0.06
14.00	1.17	1.17	1.17	65.00	0.04	0.04	0.04
15.00	0.90	0.90	0.90	66.00	0.02	0.02	0.02
16.00	0.70	0.70	0.70	67.00	0.01	0.01	0.01
17.00	0.57	0.57	0.57	68.00	0.00	0.00	0.00
18.00	0.48	0.48	0.48	69.00	0.00	0.00	0.00
19.00	0.43	0.43	0.43	70.00	0.00	0.00	0.00
20.00	0.41	0.41	0.41	71.00	0.00	0.00	0.00
21.00	0.39	0.39	0.39	72.00	0.00	0.00	0.00
22.00	0.38	0.38	0.38	73.00	0.00	0.00	0.00
23.00	0.36	0.36	0.36	74.00	0.00	0.00	0.00
24.00	0.34	0.34	0.34	75.00	0.00	0.00	0.00
25.00	0.20	0.20	0.20	76.00	0.00	0.00	0.00
26.00	0.20	0.20	0.20	77.00	0.00	0.00	0.00
27.00	0.19	0.19	0.19	78.00	0.00	0.00	0.00
28.00	0.19	0.19	0.19	79.00	0.00	0.00	0.00
29.00	0.19	0.19	0.19	80.00	0.00	0.00	0.00
30.00	0.19	0.19	0.19	81.00	0.00	0.00	0.00
31.00	0.19	0.19	0.19	82.00	0.00	0.00	0.00
32.00	0.19	0.19	0.19	83.00	0.00	0.00	0.00
33.00	0.18	0.18	0.18	84.00	0.00	0.00	0.00
34.00	0.18	0.18	0.18	85.00	0.00	0.00	0.00
35.00	0.18	0.18	0.18	86.00	0.00	0.00	0.00
36.00	0.18	0.18	0.18	87.00	0.00	0.00	0.00
37.00	0.18	0.18	0.18	88.00	0.00	0.00	0.00
38.00	0.18	0.18	0.18	89.00	0.00	0.00	0.00
39.00	0.17	0.17	0.17	90.00	0.00	0.00	0.00
40.00	0.17	0.17	0.17	91.00	0.00	0.00	0.00
41.00	0.17	0.17	0.17	92.00	0.00	0.00	0.00
42.00	0.17	0.17	0.17	93.00	0.00	0.00	0.00
43.00	0.16	0.16	0.16	94.00	0.00	0.00	0.00
44.00	0.16	0.16	0.16	95.00	0.00	0.00	0.00
45.00	0.16	0.16	0.16	96.00	0.00	0.00	0.00
46.00	0.16	0.16	0.16	97.00	0.00	0.00	0.00
47.00	0.15	0.15	0.15	98.00	0.00	0.00	0.00
48.00	0.15	0.15	0.15	99.00	0.00	0.00	0.00
49.00	0.15	0.15	0.15	100.00	0.00	0.00	0.00
50.00	0.14	0.14	0.14				

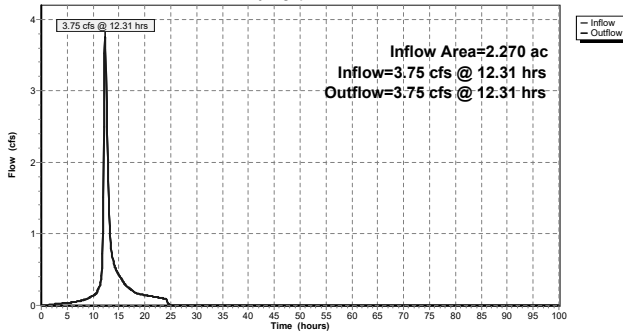
Summary for Reach 46R: P-100

Inflow Area = 2.270 ac, 22.47% Impervious, Inflow Depth = 3.00" for 25-Year event
 Inflow = 3.75 cfs @ 12.31 hrs, Volume= 0.567 af
 Outflow = 3.75 cfs @ 12.31 hrs, Volume= 0.567 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 46R: P-100

Hydrograph



Hydrograph for Reach 46R: P-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.01	0.01	0.01	53.00	0.00	0.00	0.00
3.00	0.02	0.02	0.02	54.00	0.00	0.00	0.00
4.00	0.03	0.03	0.03	55.00	0.00	0.00	0.00
5.00	0.04	0.04	0.04	56.00	0.00	0.00	0.00
6.00	0.04	0.04	0.04	57.00	0.00	0.00	0.00
7.00	0.05	0.05	0.05	58.00	0.00	0.00	0.00
8.00	0.07	0.07	0.07	59.00	0.00	0.00	0.00
9.00	0.10	0.10	0.10	60.00	0.00	0.00	0.00
10.00	0.14	0.14	0.14	61.00	0.00	0.00	0.00
11.00	0.22	0.22	0.22	62.00	0.00	0.00	0.00
12.00	1.51	1.51	1.51	63.00	0.00	0.00	0.00
13.00	1.49	1.49	1.49	64.00	0.00	0.00	0.00
14.00	0.58	0.58	0.58	65.00	0.00	0.00	0.00
15.00	0.42	0.42	0.42	66.00	0.00	0.00	0.00
16.00	0.31	0.31	0.31	67.00	0.00	0.00	0.00
17.00	0.24	0.24	0.24	68.00	0.00	0.00	0.00
18.00	0.19	0.19	0.19	69.00	0.00	0.00	0.00
19.00	0.16	0.16	0.16	70.00	0.00	0.00	0.00
20.00	0.14	0.14	0.14	71.00	0.00	0.00	0.00
21.00	0.13	0.13	0.13	72.00	0.00	0.00	0.00
22.00	0.12	0.12	0.12	73.00	0.00	0.00	0.00
23.00	0.11	0.11	0.11	74.00	0.00	0.00	0.00
24.00	0.10	0.10	0.10	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Pond 43P: P-200 Station 1450 Culvert

Inflow Area = 3.720 ac, 14.25% Impervious, Inflow Depth = 2.39" for 25-Year event
 Inflow = 3.45 cfs @ 12.55 hrs, Volume= 0.741 af
 Outflow = 0.20 cfs @ 20.88 hrs, Volume= 0.729 af, Atten=94%, Lag= 499.9 min
 Discarded = 0.00 cfs @ 20.88 hrs, Volume= 0.006 af
 Primary = 0.20 cfs @ 20.88 hrs, Volume= 0.722 af

Routing by Stor-Ind method, Time Span=0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 148.70' @ 20.88 hrs Surf.Area= 23,021 sf Storage= 23,027 cf

Plug-Flow detention time= 1,235.6 min calculated for 0.729 af (98% of inflow)
 Center-of-Mass det. time= 1,225.2 min (2,092.7 - 867.6)

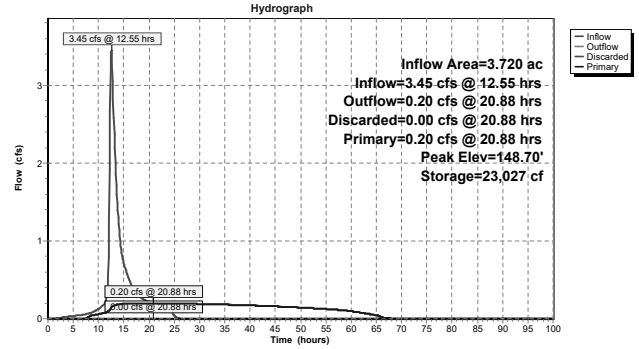
Volume #1	Invert	Avail.Storage	Storage Description
	143.50'	30,636 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.50	4	0	0
145.58	10	15	15
146.00	245	54	68
147.00	3,750	1,998	2,066
148.00	13,020	8,385	10,451
149.00	27,350	20,185	30,636

Device	Routing	Invert	Outlet Devices
#1	Discarded	143.50'	1,000 in/hr Exfiltration over Surface area below 145.60' Conductivity to Groundwater Elevation = 140.00'
#2	Primary	146.50'	2.0" x 2.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 2	145.58'	12.0" Round Culvert L= 60.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 145.58' / 145.00' S= 0.0097' / Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

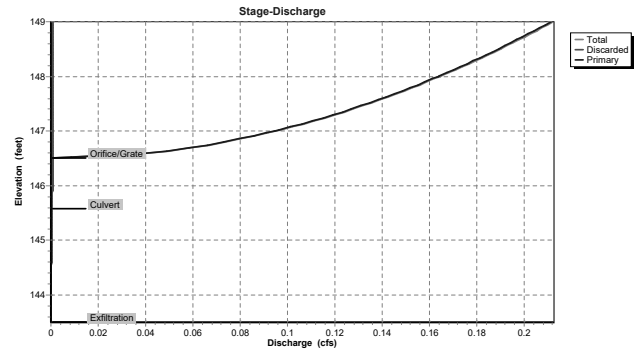
Discarded OutFlow Max=0.00 cfs @ 20.88 hrs HW=148.70' (Free Discharge)
 1=Exfiltration (Controls 0.00 cfs)

Primary OutFlow Max=0.20 cfs @ 20.88 hrs HW=148.70' (Free Discharge)
 2=Orifice/Grate (Orifice Controls 0.20 cfs @ 7.14 fps)
 3=Culvert (Passes 0.20 cfs of 5.08 cfs potential flow)

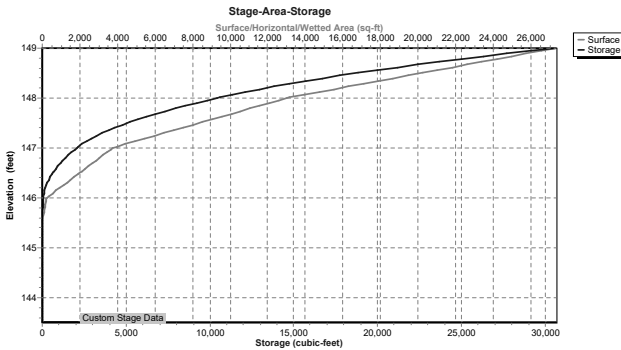
Pond 43P: P-200 Station 1450 Culvert



Pond 43P: P-200 Station 1450 Culvert



Pond 43P: P-200 Station 1450 Culvert



Hydrograph for Pond 43P: P-200 Station 1450 Culvert

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	143.50	0.00	0.00	0.00
2.00	0.01	14	145.53	0.00	0.00	0.00
4.00	0.03	140	146.14	0.00	0.00	0.00
6.00	0.04	384	146.36	0.00	0.00	0.00
8.00	0.07	737	146.55	0.02	0.00	0.02
10.00	0.13	1,087	146.70	0.06	0.00	0.06
12.00	0.80	2,218	147.04	0.10	0.00	0.10
14.00	1.22	17,135	148.42	0.19	0.00	0.19
16.00	0.51	21,250	148.62	0.20	0.00	0.19
18.00	0.30	22,640	148.68	0.20	0.00	0.20
20.00	0.22	23,005	148.70	0.20	0.00	0.20
22.00	0.18	22,994	148.70	0.20	0.00	0.20
24.00	0.15	22,740	148.69	0.20	0.00	0.20
26.00	0.01	21,723	148.64	0.20	0.00	0.20
28.00	0.00	20,327	148.58	0.19	0.00	0.19
30.00	0.00	18,944	148.51	0.19	0.00	0.19
32.00	0.00	17,584	148.44	0.19	0.00	0.19
34.00	0.00	16,249	148.37	0.18	0.00	0.18
36.00	0.00	14,939	148.30	0.18	0.00	0.18
38.00	0.00	13,656	148.22	0.18	0.00	0.18
40.00	0.00	12,402	148.14	0.17	0.00	0.17
42.00	0.00	11,179	148.05	0.17	0.00	0.17
44.00	0.00	9,990	147.96	0.16	0.00	0.16
46.00	0.00	8,838	147.87	0.16	0.00	0.16
48.00	0.00	7,725	147.77	0.15	0.00	0.15
50.00	0.00	6,655	147.67	0.15	0.00	0.14
52.00	0.00	5,632	147.56	0.14	0.00	0.14
54.00	0.00	4,662	147.45	0.13	0.00	0.13
56.00	0.00	3,751	147.32	0.12	0.00	0.12
58.00	0.00	2,910	147.18	0.11	0.00	0.11
60.00	0.00	2,156	147.02	0.10	0.00	0.10
62.00	0.00	1,519	146.84	0.08	0.00	0.08
64.00	0.00	1,029	146.67	0.06	0.00	0.06
66.00	0.00	731	146.55	0.02	0.00	0.02
68.00	0.00	654	146.51	0.00	0.00	0.00
70.00	0.00	633	146.50	0.00	0.00	0.00
72.00	0.00	627	146.50	0.00	0.00	0.00
74.00	0.00	622	146.50	0.00	0.00	0.00
76.00	0.00	617	146.49	0.00	0.00	0.00
78.00	0.00	612	146.49	0.00	0.00	0.00
80.00	0.00	608	146.49	0.00	0.00	0.00
82.00	0.00	603	146.49	0.00	0.00	0.00
84.00	0.00	598	146.48	0.00	0.00	0.00
86.00	0.00	593	146.48	0.00	0.00	0.00
88.00	0.00	588	146.48	0.00	0.00	0.00
90.00	0.00	583	146.48	0.00	0.00	0.00
92.00	0.00	579	146.47	0.00	0.00	0.00
94.00	0.00	574	146.47	0.00	0.00	0.00
96.00	0.00	569	146.47	0.00	0.00	0.00
98.00	0.00	564	146.47	0.00	0.00	0.00
100.00	0.00	559	146.46	0.00	0.00	0.00

Stage-Discharge for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
143.50	0.00	0.00	0.00	148.60	0.19	0.00	0.19
143.60	0.00	0.00	0.00	148.70	0.20	0.00	0.20
143.70	0.00	0.00	0.00	148.80	0.20	0.00	0.20
143.80	0.00	0.00	0.00	148.90	0.21	0.00	0.21
143.90	0.00	0.00	0.00	149.00	0.21	0.00	0.21
144.00	0.00	0.00	0.00				
144.10	0.00	0.00	0.00				
144.20	0.00	0.00	0.00				
144.30	0.00	0.00	0.00				
144.40	0.00	0.00	0.00				
144.50	0.00	0.00	0.00				
144.60	0.00	0.00	0.00				
144.70	0.00	0.00	0.00				
144.80	0.00	0.00	0.00				
144.90	0.00	0.00	0.00				
145.00	0.00	0.00	0.00				
145.10	0.00	0.00	0.00				
145.20	0.00	0.00	0.00				
145.30	0.00	0.00	0.00				
145.40	0.00	0.00	0.00				
145.50	0.00	0.00	0.00				
145.60	0.00	0.00	0.00				
145.70	0.00	0.00	0.00				
145.80	0.00	0.00	0.00				
145.90	0.00	0.00	0.00				
146.00	0.00	0.00	0.00				
146.10	0.00	0.00	0.00				
146.20	0.00	0.00	0.00				
146.30	0.00	0.00	0.00				
146.40	0.00	0.00	0.00				
146.50	0.00	0.00	0.00				
146.60	0.04	0.00	0.04				
146.70	0.06	0.00	0.06				
146.80	0.07	0.00	0.07				
146.90	0.09	0.00	0.08				
147.00	0.10	0.00	0.09				
147.10	0.10	0.00	0.10				
147.20	0.11	0.00	0.11				
147.30	0.12	0.00	0.12				
147.40	0.13	0.00	0.13				
147.50	0.13	0.00	0.13				
147.60	0.14	0.00	0.14				
147.70	0.15	0.00	0.15				
147.80	0.15	0.00	0.15				
147.90	0.16	0.00	0.16				
148.00	0.16	0.00	0.16				
148.10	0.17	0.00	0.17				
148.20	0.18	0.00	0.17				
148.30	0.18	0.00	0.18				
148.40	0.19	0.00	0.18				
148.50	0.19	0.00	0.19				

Stage-Area-Storage for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
143.50	4	0	148.60	21,618	20,842
143.60	4	0	148.70	23,051	23,075
143.70	5	1	148.80	24,484	25,452
143.80	5	1	148.90	25,917	27,972
143.90	5	2	149.00	27,350	30,636
144.00	5	2			
144.10	6	3			
144.20	6	4			
144.30	6	4			
144.40	7	5			
144.50	7	5			
144.60	7	6			
144.70	7	7			
144.80	8	8			
144.90	8	8			
145.00	8	9			
145.10	9	10			
145.20	9	11			
145.30	9	12			
145.40	9	13			
145.50	10	14			
145.60	21	15			
145.70	77	20			
145.80	133	30			
145.90	189	46			
146.00	245	68			
146.10	595	110			
146.20	946	187			
146.30	1,297	299			
146.40	1,647	447			
146.50	1,998	629			
146.60	2,348	846			
146.70	2,698	1,098			
146.80	3,049	1,386			
146.90	3,400	1,708			
147.00	3,750	2,066			
147.10	4,677	2,487			
147.20	5,604	3,001			
147.30	6,531	3,608			
147.40	7,458	4,307			
147.50	8,385	5,099			
147.60	9,312	5,984			
147.70	10,239	6,962			
147.80	11,166	8,032			
147.90	12,093	9,195			
148.00	13,020	10,451			
148.10	14,453	11,824			
148.20	15,886	13,341			
148.30	17,319	15,001			
148.40	18,752	16,805			
148.50	20,185	18,752			

Summary for Pond 44P: P-300 Rainwater Garden

Inflow Area = 1.590 ac, 2.52% Impervious, Inflow Depth = 1.08" for 25-Year event
 Inflow = 0.46 cfs @ 12.79 hrs, Volume= 0.143 af
 Outflow = 0.39 cfs @ 13.28 hrs, Volume= 0.143 af, Atten= 15%, Lag= 29.5 min
 Discarded = 0.09 cfs @ 13.28 hrs, Volume= 0.092 af
 Primary = 0.30 cfs @ 13.28 hrs, Volume= 0.050 af

Routing by Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 147.24' @ 13.28 hrs Surf.Area= 3,688 sf Storage= 851 cf

Plug-Flow detention time= 62.5 min calculated for 0.143 af (100% of inflow)
 Center-of-Mass det. time= 62.4 min (1,004.0 - 941.6)

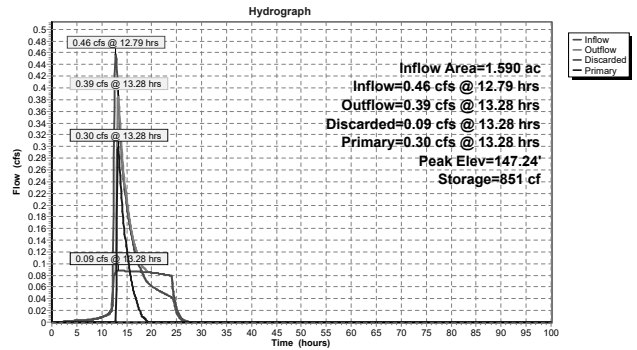
Volume	Invert	Avail.Storage	Storage Description
#1	147.00'	8,800 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.00	3,400	0	0
148.00	4,600	4,000	4,000
149.00	5,000	4,800	8,800

Device	Routing	Invert	Outlet Devices
#1	Discarded	147.00'	1,000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 140.00'
#2	Primary	147.16'	Asymmetrical Weir, C= 3.27 Offset (feet) 1,100.00 1,150.00 1,200.00 1,255.00 Elev. (feet) 148.00 147.16 147.91 148.00

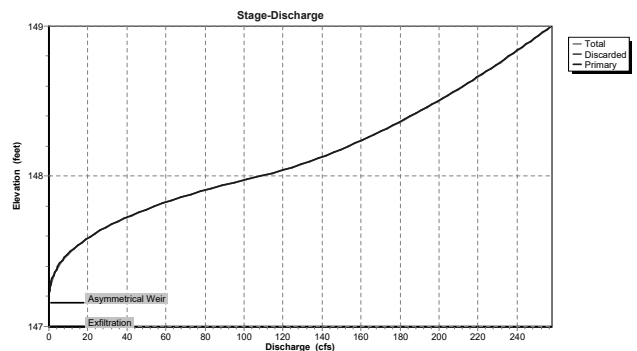
Discarded OutFlow Max=0.09 cfs @ 13.28 hrs HW=147.24' (Free Discharge)
 1=Exfiltration (Controls 0.09 cfs)

Primary OutFlow Max=0.30 cfs @ 13.28 hrs HW=147.24' (Free Discharge)
 2=Asymmetrical Weir (Weir Controls 0.30 cfs @ 0.37 fps)

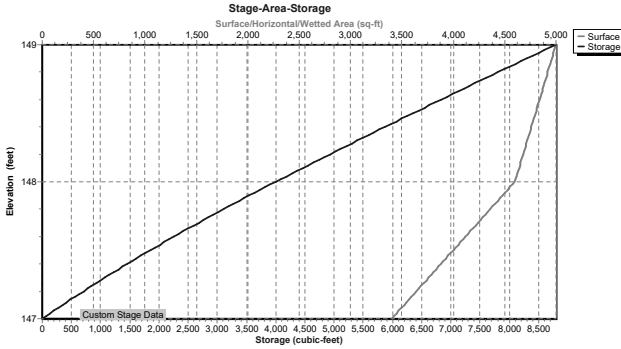
Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Hydrograph for Pond 44P: P-300 Rainwater Garden

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	147.00	0.00	0.00	0.00
2.00	0.00	0	147.00	0.00	0.00	0.00
4.00	0.00	1	147.00	0.00	0.00	0.00
6.00	0.00	2	147.00	0.00	0.00	0.00
8.00	0.00	4	147.00	0.00	0.00	0.00
10.00	0.01	7	147.00	0.01	0.01	0.00
12.00	0.03	19	147.01	0.02	0.02	0.00
14.00	0.28	809	147.23	0.30	0.09	0.21
16.00	0.15	716	147.20	0.15	0.09	0.07
18.00	0.09	633	147.18	0.10	0.09	0.01
20.00	0.06	509	147.15	0.08	0.08	0.00
22.00	0.05	312	147.09	0.08	0.08	0.00
24.00	0.04	68	147.02	0.08	0.08	0.00
26.00	0.00	5	147.00	0.01	0.01	0.00
28.00	0.00	0	147.00	0.00	0.00	0.00
30.00	0.00	0	147.00	0.00	0.00	0.00
32.00	0.00	0	147.00	0.00	0.00	0.00
34.00	0.00	0	147.00	0.00	0.00	0.00
36.00	0.00	0	147.00	0.00	0.00	0.00
38.00	0.00	0	147.00	0.00	0.00	0.00
40.00	0.00	0	147.00	0.00	0.00	0.00
42.00	0.00	0	147.00	0.00	0.00	0.00
44.00	0.00	0	147.00	0.00	0.00	0.00
46.00	0.00	0	147.00	0.00	0.00	0.00
48.00	0.00	0	147.00	0.00	0.00	0.00
50.00	0.00	0	147.00	0.00	0.00	0.00
52.00	0.00	0	147.00	0.00	0.00	0.00
54.00	0.00	0	147.00	0.00	0.00	0.00
56.00	0.00	0	147.00	0.00	0.00	0.00
58.00	0.00	0	147.00	0.00	0.00	0.00
60.00	0.00	0	147.00	0.00	0.00	0.00
62.00	0.00	0	147.00	0.00	0.00	0.00
64.00	0.00	0	147.00	0.00	0.00	0.00
66.00	0.00	0	147.00	0.00	0.00	0.00
68.00	0.00	0	147.00	0.00	0.00	0.00
70.00	0.00	0	147.00	0.00	0.00	0.00
72.00	0.00	0	147.00	0.00	0.00	0.00
74.00	0.00	0	147.00	0.00	0.00	0.00
76.00	0.00	0	147.00	0.00	0.00	0.00
78.00	0.00	0	147.00	0.00	0.00	0.00
80.00	0.00	0	147.00	0.00	0.00	0.00
82.00	0.00	0	147.00	0.00	0.00	0.00
84.00	0.00	0	147.00	0.00	0.00	0.00
86.00	0.00	0	147.00	0.00	0.00	0.00
88.00	0.00	0	147.00	0.00	0.00	0.00
90.00	0.00	0	147.00	0.00	0.00	0.00
92.00	0.00	0	147.00	0.00	0.00	0.00
94.00	0.00	0	147.00	0.00	0.00	0.00
96.00	0.00	0	147.00	0.00	0.00	0.00
98.00	0.00	0	147.00	0.00	0.00	0.00
100.00	0.00	0	147.00	0.00	0.00	0.00

Stage-Discharge for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
147.00	0.00	0.00	0.00	148.02	114.70	0.12	114.58
147.02	0.08	0.08	0.00	148.04	120.03	0.12	119.91
147.04	0.08	0.08	0.00	148.06	124.94	0.12	124.82
147.06	0.08	0.08	0.00	148.08	129.55	0.12	129.43
147.08	0.08	0.08	0.00	148.10	133.93	0.12	133.81
147.10	0.08	0.08	0.00	148.12	138.11	0.12	137.99
147.12	0.08	0.08	0.00	148.14	142.13	0.12	142.01
147.14	0.08	0.08	0.00	148.16	146.01	0.12	145.89
147.16	0.08	0.08	0.00	148.18	149.77	0.12	149.64
147.18	0.10	0.09	0.01	148.20	153.41	0.12	153.29
147.20	0.14	0.09	0.05	148.22	156.95	0.12	156.83
147.22	0.23	0.09	0.15	148.24	160.40	0.13	160.28
147.24	0.39	0.09	0.30	148.26	163.77	0.13	163.65
147.26	0.61	0.09	0.52	148.28	167.06	0.13	166.93
147.28	0.91	0.09	0.82	148.30	170.28	0.13	170.15
147.30	1.30	0.09	1.21	148.32	173.43	0.13	173.30
147.32	1.78	0.09	1.69	148.34	176.51	0.13	176.39
147.34	2.36	0.09	2.27	148.36	179.54	0.13	179.41
147.36	3.05	0.09	2.95	148.38	182.52	0.13	182.39
147.38	3.84	0.09	3.75	148.40	185.44	0.13	185.31
147.40	4.75	0.09	4.66	148.42	188.31	0.13	188.18
147.42	5.78	0.10	5.69	148.44	191.14	0.13	191.01
147.44	6.94	0.10	6.85	148.46	193.92	0.13	193.79
147.46	8.23	0.10	8.14	148.48	196.66	0.13	196.53
147.48	9.66	0.10	9.56	148.50	199.36	0.13	199.23
147.50	11.22	0.10	11.13	148.52	202.02	0.13	201.89
147.52	12.93	0.10	12.83	148.54	204.64	0.13	204.51
147.54	14.79	0.10	14.69	148.56	207.23	0.13	207.10
147.56	16.80	0.10	16.70	148.58	209.79	0.13	209.65
147.58	18.97	0.10	18.87	148.60	212.31	0.13	212.18
147.60	21.30	0.10	21.20	148.62	214.80	0.13	214.67
147.62	23.79	0.10	23.69	148.64	217.27	0.14	217.13
147.64	26.45	0.10	26.35	148.66	219.70	0.14	219.56
147.66	29.28	0.11	29.18	148.68	222.10	0.14	221.97
147.68	32.29	0.11	32.18	148.70	224.48	0.14	224.35
147.70	35.48	0.11	35.37	148.72	226.84	0.14	226.70
147.72	38.84	0.11	38.74	148.74	229.16	0.14	229.03
147.74	42.40	0.11	42.29	148.76	231.47	0.14	231.33
147.76	46.14	0.11	46.03	148.78	233.75	0.14	233.61
147.78	50.07	0.11	49.96	148.80	236.00	0.14	235.86
147.80	54.20	0.11	54.09	148.82	238.24	0.14	238.10
147.82	58.52	0.11	58.41	148.84	240.45	0.14	240.31
147.84	63.05	0.11	62.94	148.86	242.65	0.14	242.51
147.86	67.78	0.11	67.67	148.88	244.82	0.14	244.68
147.88	72.72	0.11	72.60	148.90	246.97	0.14	246.83
147.90	77.87	0.12	77.75	148.92	249.11	0.14	248.96
147.92	83.24	0.12	83.12	148.94	251.22	0.14	251.08
147.94	88.92	0.12	88.80	148.96	253.32	0.14	253.17
147.96	95.00	0.12	94.88	148.98	255.40	0.14	255.25
147.98	101.54	0.12	101.42	149.00	257.46	0.14	257.32
148.00	108.59	0.12	108.47				

Stage-Area-Storage for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.00	3,400	0	148.02	4,608	4,092
147.02	3,424	68	148.04	4,616	4,184
147.04	3,448	137	148.06	4,624	4,277
147.06	3,472	206	148.08	4,632	4,369
147.08	3,496	276	148.10	4,640	4,462
147.10	3,520	346	148.12	4,648	4,555
147.12	3,544	417	148.14	4,656	4,648
147.14	3,568	488	148.16	4,664	4,741
147.16	3,592	559	148.18	4,672	4,834
147.18	3,616	631	148.20	4,680	4,928
147.20	3,640	704	148.22	4,688	5,022
147.22	3,664	777	148.24	4,696	5,116
147.24	3,688	851	148.26	4,704	5,210
147.26	3,712	925	148.28	4,712	5,304
147.28	3,736	999	148.30	4,720	5,398
147.30	3,760	1,074	148.32	4,728	5,492
147.32	3,784	1,149	148.34	4,736	5,587
147.34	3,808	1,225	148.36	4,744	5,682
147.36	3,832	1,302	148.38	4,752	5,777
147.38	3,856	1,379	148.40	4,760	5,872
147.40	3,880	1,456	148.42	4,768	5,967
147.42	3,904	1,534	148.44	4,776	6,063
147.44	3,928	1,612	148.46		

Time span=0.00-100.00 hrs, dt=0.10 hrs, 1001 points
 Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: E-100 PERV	Runoff Area=2.270 ac 0.00% Impervious Runoff Depth=3.71" Flow Length=610' Tc=16.5 min CN=60 Runoff=4.97 cfs 0.702 af
Subcatchment2S: E-200 PERV	Runoff Area=3.720 ac 0.00% Impervious Runoff Depth=3.36" Flow Length=373' Tc=31.5 min CN=57 Runoff=5.23 cfs 1.042 af
Subcatchment3S: E-300 PERV	Runoff Area=1.590 ac 0.00% Impervious Runoff Depth=2.12" Flow Length=300' Slope=0.0100 ' / ' Tc=40.2 min CN=46 Runoff=1.07 cfs 0.280 af
Subcatchment4S: E-400 PERV	Runoff Area=3.460 ac 0.00% Impervious Runoff Depth=1.08" Flow Length=150' Slope=0.0250 ' / ' Tc=15.9 min CN=36 Runoff=1.43 cfs 0.310 af
Subcatchment45S: P-100 PERV	Runoff Area=1.760 ac 0.00% Impervious Runoff Depth=3.83" Flow Length=610' Tc=16.5 min CN=61 Runoff=3.99 cfs 0.562 af
Subcatchment46S: P-200 PERV	Runoff Area=3.190 ac 0.00% Impervious Runoff Depth=3.36" Flow Length=373' Tc=31.5 min CN=57 Runoff=4.48 cfs 0.894 af
Subcatchment47S: P-300 PERV	Runoff Area=1.550 ac 0.00% Impervious Runoff Depth=2.12" Flow Length=300' Slope=0.0100 ' / ' Tc=40.2 min CN=46 Runoff=1.05 cfs 0.273 af
Subcatchment48S: P-400 PERV	Runoff Area=3.400 ac 0.00% Impervious Runoff Depth=1.08" Flow Length=150' Slope=0.0250 ' / ' Tc=15.9 min CN=36 Runoff=1.41 cfs 0.305 af
Subcatchment49S: P-100 IMP	Runoff Area=0.510 ac 100.00% Impervious Runoff Depth=8.26" Flow Length=610' Tc=16.5 min CN=98 Runoff=2.24 cfs 0.351 af
Subcatchment50S: P-200 IMP	Runoff Area=0.530 ac 100.00% Impervious Runoff Depth=8.26" Flow Length=373' Tc=31.5 min CN=98 Runoff=1.71 cfs 0.365 af
Subcatchment51S: P-300 IMP	Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=8.26" Flow Length=300' Slope=0.0100 ' / ' Tc=40.2 min CN=98 Runoff=0.11 cfs 0.028 af
Subcatchment52S: P-400 IMP	Runoff Area=0.060 ac 100.00% Impervious Runoff Depth=8.26" Flow Length=150' Slope=0.0250 ' / ' Tc=15.9 min CN=98 Runoff=0.27 cfs 0.041 af
Reach 6R: E-100	Inflow=4.97 cfs 0.702 af Outflow=4.97 cfs 0.702 af
Reach 7R: E-200	Inflow=5.23 cfs 1.042 af Outflow=5.23 cfs 1.042 af
Reach 8R: E-300	Inflow=1.07 cfs 0.280 af Outflow=1.07 cfs 0.280 af
Reach 22R: E-400	Inflow=1.43 cfs 0.310 af Outflow=1.43 cfs 0.310 af

Reach 23R: E-POA "A"	Inflow=9.70 cfs 1.745 af Outflow=9.70 cfs 1.745 af
Reach 25R: E-POA "B"	Inflow=2.40 cfs 0.591 af Outflow=2.40 cfs 0.591 af
Reach 26R: E-POA	Inflow=11.97 cfs 2.335 af Outflow=11.97 cfs 2.335 af
Reach 38R: P-400	Inflow=1.63 cfs 0.346 af Outflow=1.63 cfs 0.346 af
Reach 39R: P-POA "A"	Inflow=6.35 cfs 2.147 af Outflow=6.35 cfs 2.147 af
Reach 40R: P-POA "B"	Inflow=2.37 cfs 0.535 af Outflow=2.37 cfs 0.535 af
Reach 41R: P-POA	Inflow=7.82 cfs 2.683 af Outflow=7.82 cfs 2.683 af
Reach 46R: P-100	Inflow=6.21 cfs 0.913 af Outflow=6.21 cfs 0.913 af
Pond 43P: P-200 Station 1450 Culvert	Peak Elev=875.50' Storage=30.636 cf Inflow=6.17 cfs 1.259 af Discarded=0.08 cfs 0.010 af Primary=3.61 cfs 1.235 af Outflow=3.69 cfs 1.245 af
Pond 44P: P-300 Rainwater Garden	Peak Elev=147.29' Storage=1.044 cf Inflow=1.15 cfs 0.301 af Discarded=0.09 cfs 0.112 af Primary=1.05 cfs 0.189 af Outflow=1.14 cfs 0.301 af
Total Runoff Area = 22.080 ac Runoff Volume = 5.154 af Average Runoff Depth = 2.80" 94.84% Pervious = 20.940 ac 5.16% Impervious = 1.140 ac	

Summary for Subcatchment 1S: E-100 PERV

Runoff = 4.97 cfs @ 12.32 hrs, Volume= 0.702 af, Depth= 3.71"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

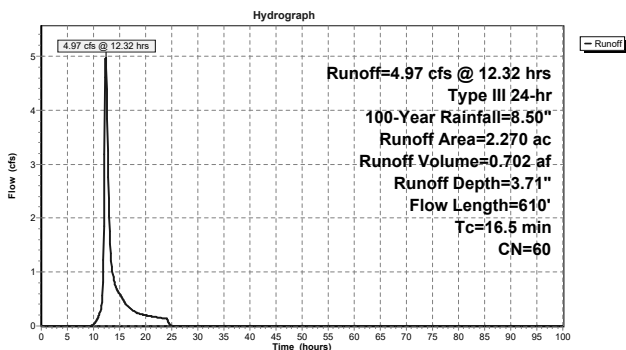
Area (ac)	CN	Description
0.420	55	Woods, Good, HSG B
1.850	61	>75% Grass cover, Good, HSG B
2.270	60	Weighted Average
2.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Hydrograph for Subcatchment 1S: E-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	3.71	0.00
1.00	0.08	0.00	0.00	52.00	8.50	3.71	0.00
2.00	0.17	0.00	0.00	53.00	8.50	3.71	0.00
3.00	0.26	0.00	0.00	54.00	8.50	3.71	0.00
4.00	0.37	0.00	0.00	55.00	8.50	3.71	0.00
5.00	0.48	0.00	0.00	56.00	8.50	3.71	0.00
6.00	0.61	0.00	0.00	57.00	8.50	3.71	0.00
7.00	0.77	0.00	0.00	58.00	8.50	3.71	0.00
8.00	0.97	0.00	0.00	59.00	8.50	3.71	0.00
9.00	1.24	0.00	0.00	60.00	8.50	3.71	0.00
10.00	1.61	0.01	0.03	61.00	8.50	3.71	0.00
11.00	2.12	0.08	0.18	62.00	8.50	3.71	0.00
12.00	4.25	0.89	1.85	63.00	8.50	3.71	0.00
13.00	6.37	2.17	2.04	64.00	8.50	3.71	0.00
14.00	6.89	2.53	0.81	65.00	8.50	3.71	0.00
15.00	7.28	2.79	0.59	66.00	8.50	3.71	0.00
16.00	7.53	2.99	0.44	67.00	8.50	3.71	0.00
17.00	7.73	3.13	0.33	68.00	8.50	3.71	0.00
18.00	7.89	3.25	0.26	69.00	8.50	3.71	0.00
19.00	8.02	3.35	0.22	70.00	8.50	3.71	0.00
20.00	8.13	3.43	0.20	71.00	8.50	3.71	0.00
21.00	8.24	3.51	0.18	72.00	8.50	3.71	0.00
22.00	8.34	3.59	0.17	73.00	8.50	3.71	0.00
23.00	8.42	3.65	0.15	74.00	8.50	3.71	0.00
24.00	8.50	3.71	0.13	75.00	8.50	3.71	0.00
25.00	8.50	3.71	0.01	76.00	8.50	3.71	0.00
26.00	8.50	3.71	0.00	77.00	8.50	3.71	0.00
27.00	8.50	3.71	0.00	78.00	8.50	3.71	0.00
28.00	8.50	3.71	0.00	79.00	8.50	3.71	0.00
29.00	8.50	3.71	0.00	80.00	8.50	3.71	0.00
30.00	8.50	3.71	0.00	81.00	8.50	3.71	0.00
31.00	8.50	3.71	0.00	82.00	8.50	3.71	0.00
32.00	8.50	3.71	0.00	83.00	8.50	3.71	0.00
33.00	8.50	3.71	0.00	84.00	8.50	3.71	0.00
34.00	8.50	3.71	0.00	85.00	8.50	3.71	0.00
35.00	8.50	3.71	0.00	86.00	8.50	3.71	0.00
36.00	8.50	3.71	0.00	87.00	8.50	3.71	0.00
37.00	8.50	3.71	0.00	88.00	8.50	3.71	0.00
38.00	8.50	3.71	0.00	89.00	8.50	3.71	0.00
39.00	8.50	3.71	0.00	90.00	8.50	3.71	0.00
40.00	8.50	3.71	0.00	91.00	8.50	3.71	0.00
41.00	8.50	3.71	0.00	92.00	8.50	3.71	0.00
42.00	8.50	3.71	0.00	93.00	8.50	3.71	0.00
43.00	8.50	3.71	0.00	94.00	8.50	3.71	0.00
44.00	8.50	3.71	0.00	95.00	8.50	3.71	0.00
45.00	8.50	3.71	0.00	96.00	8.50	3.71	0.00
46.00	8.50	3.71	0.00	97.00	8.50	3.71	0.00
47.00	8.50	3.71	0.00	98.00	8.50	3.71	0.00
48.00	8.50	3.71	0.00	99.00	8.50	3.71	0.00
49.00	8.50	3.71	0.00	100.00	8.50	3.71	0.00
50.00	8.50	3.71	0.00				

Subcatchment 1S: E-100 PERV



Summary for Subcatchment 2S: E-200 PERV

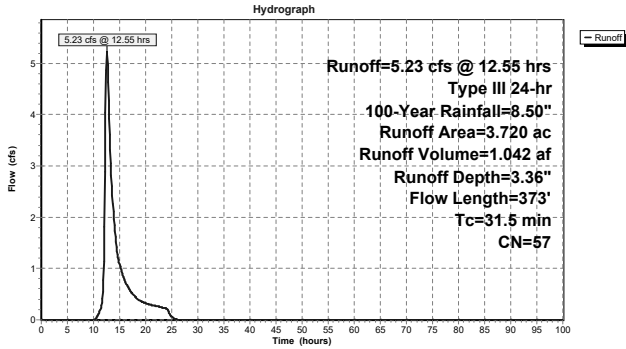
Runoff = 5.23 cfs @ 12.55 hrs, Volume= 1.042 af, Depth= 3.36"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
2.400	55	Woods, Good, HSG B
0.010	30	Woods, Good, HSG A
1.310	61	>75% Grass cover, Good, HSG B
3.720	57	Weighted Average
3.720		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 2S: E-200 PERV



Hydrograph for Subcatchment 2S: E-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	3.36	0.00
1.00	0.08	0.00	0.00	52.00	8.50	3.36	0.00
2.00	0.17	0.00	0.00	53.00	8.50	3.36	0.00
3.00	0.26	0.00	0.00	54.00	8.50	3.36	0.00
4.00	0.37	0.00	0.00	55.00	8.50	3.36	0.00
5.00	0.48	0.00	0.00	56.00	8.50	3.36	0.00
6.00	0.61	0.00	0.00	57.00	8.50	3.36	0.00
7.00	0.77	0.00	0.00	58.00	8.50	3.36	0.00
8.00	0.97	0.00	0.00	59.00	8.50	3.36	0.00
9.00	1.24	0.00	0.00	60.00	8.50	3.36	0.00
10.00	1.61	0.00	0.00	61.00	8.50	3.36	0.00
11.00	2.12	0.05	0.12	62.00	8.50	3.36	0.00
12.00	4.25	0.73	1.14	63.00	8.50	3.36	0.00
13.00	6.37	1.91	3.92	64.00	8.50	3.36	0.00
14.00	6.89	2.24	1.84	65.00	8.50	3.36	0.00
15.00	7.26	2.49	1.08	66.00	8.50	3.36	0.00
16.00	7.53	2.67	0.77	67.00	8.50	3.36	0.00
17.00	7.73	2.81	0.57	68.00	8.50	3.36	0.00
18.00	7.89	2.92	0.45	69.00	8.50	3.36	0.00
19.00	8.02	3.01	0.37	70.00	8.50	3.36	0.00
20.00	8.13	3.10	0.32	71.00	8.50	3.36	0.00
21.00	8.24	3.17	0.29	72.00	8.50	3.36	0.00
22.00	8.34	3.24	0.27	73.00	8.50	3.36	0.00
23.00	8.42	3.31	0.24	74.00	8.50	3.36	0.00
24.00	8.50	3.36	0.22	75.00	8.50	3.36	0.00
25.00	8.50	3.36	0.06	76.00	8.50	3.36	0.00
26.00	8.50	3.36	0.01	77.00	8.50	3.36	0.00
27.00	8.50	3.36	0.00	78.00	8.50	3.36	0.00
28.00	8.50	3.36	0.00	79.00	8.50	3.36	0.00
29.00	8.50	3.36	0.00	80.00	8.50	3.36	0.00
30.00	8.50	3.36	0.00	81.00	8.50	3.36	0.00
31.00	8.50	3.36	0.00	82.00	8.50	3.36	0.00
32.00	8.50	3.36	0.00	83.00	8.50	3.36	0.00
33.00	8.50	3.36	0.00	84.00	8.50	3.36	0.00
34.00	8.50	3.36	0.00	85.00	8.50	3.36	0.00
35.00	8.50	3.36	0.00	86.00	8.50	3.36	0.00
36.00	8.50	3.36	0.00	87.00	8.50	3.36	0.00
37.00	8.50	3.36	0.00	88.00	8.50	3.36	0.00
38.00	8.50	3.36	0.00	89.00	8.50	3.36	0.00
39.00	8.50	3.36	0.00	90.00	8.50	3.36	0.00
40.00	8.50	3.36	0.00	91.00	8.50	3.36	0.00
41.00	8.50	3.36	0.00	92.00	8.50	3.36	0.00
42.00	8.50	3.36	0.00	93.00	8.50	3.36	0.00
43.00	8.50	3.36	0.00	94.00	8.50	3.36	0.00
44.00	8.50	3.36	0.00	95.00	8.50	3.36	0.00
45.00	8.50	3.36	0.00	96.00	8.50	3.36	0.00
46.00	8.50	3.36	0.00	97.00	8.50	3.36	0.00
47.00	8.50	3.36	0.00	98.00	8.50	3.36	0.00
48.00	8.50	3.36	0.00	99.00	8.50	3.36	0.00
49.00	8.50	3.36	0.00	100.00	8.50	3.36	0.00
50.00	8.50	3.36	0.00				

Summary for Subcatchment 3S: E-300 PERV

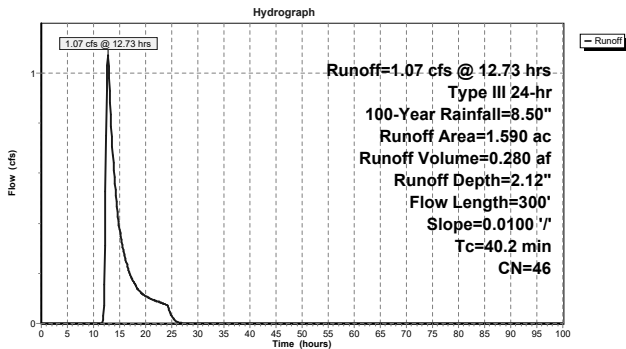
Runoff = 1.07 cfs @ 12.73 hrs, Volume= 0.280 af, Depth= 2.12"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	Pasture/grassland/range, Good, HSG B
0.940	39	Pasture/grassland/range, Good, HSG A
1.590	46	Weighted Average
1.590		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 3S: E-300 PERV



Hydrograph for Subcatchment 3S: E-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	2.12	0.00
1.00	0.08	0.00	0.00	52.00	8.50	2.12	0.00
2.00	0.17	0.00	0.00	53.00	8.50	2.12	0.00
3.00	0.26	0.00	0.00	54.00	8.50	2.12	0.00
4.00	0.37	0.00	0.00	55.00	8.50	2.12	0.00
5.00	0.48	0.00	0.00	56.00	8.50	2.12	0.00
6.00	0.61	0.00	0.00	57.00	8.50	2.12	0.00
7.00	0.77	0.00	0.00	58.00	8.50	2.12	0.00
8.00	0.97	0.00	0.00	59.00	8.50	2.12	0.00
9.00	1.24	0.00	0.00	60.00	8.50	2.12	0.00
10.00	1.61	0.00	0.00	61.00	8.50	2.12	0.00
11.00	2.12	0.00	0.00	62.00	8.50	2.12	0.00
12.00	4.25	0.27	0.07	63.00	8.50	2.12	0.00
13.00	6.37	1.03	0.98	64.00	8.50	2.12	0.00
14.00	6.89	1.27	0.58	65.00	8.50	2.12	0.00
15.00	7.26	1.45	0.38	66.00	8.50	2.12	0.00
16.00	7.53	1.59	0.27	67.00	8.50	2.12	0.00
17.00	7.73	1.69	0.20	68.00	8.50	2.12	0.00
18.00	7.89	1.78	0.15	69.00	8.50	2.12	0.00
19.00	8.02	1.85	0.12	70.00	8.50	2.12	0.00
20.00	8.13	1.91	0.11	71.00	8.50	2.12	0.00
21.00	8.24	1.97	0.10	72.00	8.50	2.12	0.00
22.00	8.34	2.02	0.09	73.00	8.50	2.12	0.00
23.00	8.42	2.07	0.08	74.00	8.50	2.12	0.00
24.00	8.50	2.12	0.07	75.00	8.50	2.12	0.00
25.00	8.50	2.12	0.03	76.00	8.50	2.12	0.00
26.00	8.50	2.12	0.01	77.00	8.50	2.12	0.00
27.00	8.50	2.12	0.00	78.00	8.50	2.12	0.00
28.00	8.50	2.12	0.00	79.00	8.50	2.12	0.00
29.00	8.50	2.12	0.00	80.00	8.50	2.12	0.00
30.00	8.50	2.12	0.00	81.00	8.50	2.12	0.00
31.00	8.50	2.12	0.00	82.00	8.50	2.12	0.00
32.00	8.50	2.12	0.00	83.00	8.50	2.12	0.00
33.00	8.50	2.12	0.00	84.00	8.50	2.12	0.00
34.00	8.50	2.12	0.00	85.00	8.50	2.12	0.00
35.00	8.50	2.12	0.00	86.00	8.50	2.12	0.00
36.00	8.50	2.12	0.00	87.00	8.50	2.12	0.00
37.00	8.50	2.12	0.00	88.00	8.50	2.12	0.00
38.00	8.50	2.12	0.00	89.00	8.50	2.12	0.00
39.00	8.50	2.12	0.00	90.00	8.50	2.12	0.00
40.00	8.50	2.12	0.00	91.00	8.50	2.12	0.00
41.00	8.50	2.12	0.00	92.00	8.50	2.12	0.00
42.00	8.50	2.12	0.00	93.00	8.50	2.12	0.00
43.00	8.50	2.12	0.00	94.00	8.50	2.12	0.00
44.00	8.50	2.12	0.00	95.00	8.50	2.12	0.00
45.00	8.50	2.12	0.00	96.00	8.50	2.12	0.00
46.00	8.50	2.12	0.00	97.00	8.50	2.12	0.00
47.00	8.50	2.12	0.00	98.00	8.50	2.12	0.00
48.00	8.50	2.12	0.00	99.00	8.50	2.12	0.00
49.00	8.50	2.12	0.00	100.00	8.50	2.12	0.00
50.00	8.50	2.12	0.00				

Summary for Subcatchment 4S: E-400 PERV

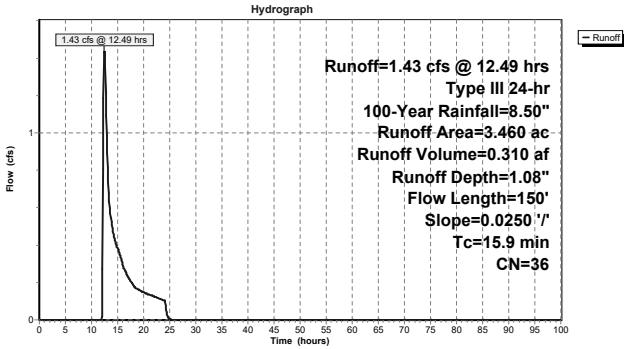
Runoff = 1.43 cfs @ 12.49 hrs, Volume= 0.310 af, Depth= 1.08"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.980	39	Pasture/grassland/range, Good, HSG A
3.460	36	Weighted Average
3.460		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 4S: E-400 PERV



Hydrograph for Subcatchment 4S: E-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	1.08	0.00
1.00	0.08	0.00	0.00	52.00	8.50	1.08	0.00
2.00	0.17	0.00	0.00	53.00	8.50	1.08	0.00
3.00	0.26	0.00	0.00	54.00	8.50	1.08	0.00
4.00	0.37	0.00	0.00	55.00	8.50	1.08	0.00
5.00	0.48	0.00	0.00	56.00	8.50	1.08	0.00
6.00	0.61	0.00	0.00	57.00	8.50	1.08	0.00
7.00	0.77	0.00	0.00	58.00	8.50	1.08	0.00
8.00	0.97	0.00	0.00	59.00	8.50	1.08	0.00
9.00	1.24	0.00	0.00	60.00	8.50	1.08	0.00
10.00	1.61	0.00	0.00	61.00	8.50	1.08	0.00
11.00	2.12	0.00	0.00	62.00	8.50	1.08	0.00
12.00	4.25	0.03	0.02	63.00	8.50	1.08	0.00
13.00	6.37	0.39	0.90	64.00	8.50	1.08	0.00
14.00	6.89	0.53	0.49	65.00	8.50	1.08	0.00
15.00	7.26	0.64	0.38	66.00	8.50	1.08	0.00
16.00	7.53	0.73	0.30	67.00	8.50	1.08	0.00
17.00	7.73	0.79	0.23	68.00	8.50	1.08	0.00
18.00	7.89	0.85	0.19	69.00	8.50	1.08	0.00
19.00	8.02	0.90	0.16	70.00	8.50	1.08	0.00
20.00	8.13	0.94	0.15	71.00	8.50	1.08	0.00
21.00	8.24	0.98	0.14	72.00	8.50	1.08	0.00
22.00	8.34	1.01	0.13	73.00	8.50	1.08	0.00
23.00	8.42	1.05	0.11	74.00	8.50	1.08	0.00
24.00	8.50	1.08	0.10	75.00	8.50	1.08	0.00
25.00	8.50	1.08	0.00	76.00	8.50	1.08	0.00
26.00	8.50	1.08	0.00	77.00	8.50	1.08	0.00
27.00	8.50	1.08	0.00	78.00	8.50	1.08	0.00
28.00	8.50	1.08	0.00	79.00	8.50	1.08	0.00
29.00	8.50	1.08	0.00	80.00	8.50	1.08	0.00
30.00	8.50	1.08	0.00	81.00	8.50	1.08	0.00
31.00	8.50	1.08	0.00	82.00	8.50	1.08	0.00
32.00	8.50	1.08	0.00	83.00	8.50	1.08	0.00
33.00	8.50	1.08	0.00	84.00	8.50	1.08	0.00
34.00	8.50	1.08	0.00	85.00	8.50	1.08	0.00
35.00	8.50	1.08	0.00	86.00	8.50	1.08	0.00
36.00	8.50	1.08	0.00	87.00	8.50	1.08	0.00
37.00	8.50	1.08	0.00	88.00	8.50	1.08	0.00
38.00	8.50	1.08	0.00	89.00	8.50	1.08	0.00
39.00	8.50	1.08	0.00	90.00	8.50	1.08	0.00
40.00	8.50	1.08	0.00	91.00	8.50	1.08	0.00
41.00	8.50	1.08	0.00	92.00	8.50	1.08	0.00
42.00	8.50	1.08	0.00	93.00	8.50	1.08	0.00
43.00	8.50	1.08	0.00	94.00	8.50	1.08	0.00
44.00	8.50	1.08	0.00	95.00	8.50	1.08	0.00
45.00	8.50	1.08	0.00	96.00	8.50	1.08	0.00
46.00	8.50	1.08	0.00	97.00	8.50	1.08	0.00
47.00	8.50	1.08	0.00	98.00	8.50	1.08	0.00
48.00	8.50	1.08	0.00	99.00	8.50	1.08	0.00
49.00	8.50	1.08	0.00	100.00	8.50	1.08	0.00
50.00	8.50	1.08	0.00				

Summary for Subcatchment 45S: P-100 PERV

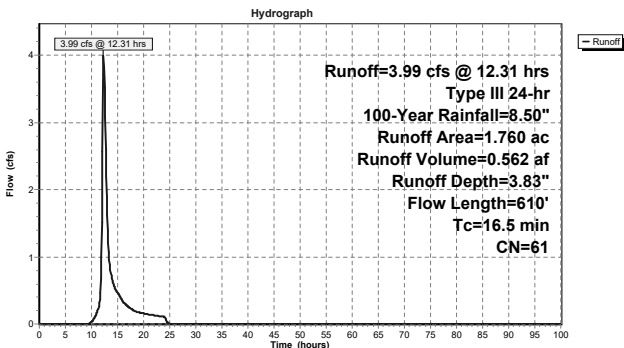
Runoff = 3.99 cfs @ 12.31 hrs, Volume= 0.562 af, Depth= 3.83"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.130	55	Woods, Good, HSG B
1.630	61	>75% Grass cover, Good, HSG B
1.760	61	Weighted Average
1.760		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 45S: P-100 PERV



Hydrograph for Subcatchment 45S: P-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	3.83	0.00
1.00	0.08	0.00	0.00	52.00	8.50	3.83	0.00
2.00	0.17	0.00	0.00	53.00	8.50	3.83	0.00
3.00	0.26	0.00	0.00	54.00	8.50	3.83	0.00
4.00	0.37	0.00	0.00	55.00	8.50	3.83	0.00
5.00	0.48	0.00	0.00	56.00	8.50	3.83	0.00
6.00	0.61	0.00	0.00	57.00	8.50	3.83	0.00
7.00	0.77	0.00	0.00	58.00	8.50	3.83	0.00
8.00	0.97	0.00	0.00	59.00	8.50	3.83	0.00
9.00	1.24	0.00	0.00	60.00	8.50	3.83	0.00
10.00	1.61	0.02	0.03	61.00	8.50	3.83	0.00
11.00	2.12	0.10	0.16	62.00	8.50	3.83	0.00
12.00	4.25	0.94	1.51	63.00	8.50	3.83	0.00
13.00	6.37	2.26	1.62	64.00	8.50	3.83	0.00
14.00	6.89	2.63	0.64	65.00	8.50	3.83	0.00
15.00	7.26	2.89	0.47	66.00	8.50	3.83	0.00
16.00	7.53	3.09	0.34	67.00	8.50	3.83	0.00
17.00	7.73	3.24	0.26	68.00	8.50	3.83	0.00
18.00	7.89	3.36	0.21	69.00	8.50	3.83	0.00
19.00	8.02	3.46	0.17	70.00	8.50	3.83	0.00
20.00	8.13	3.55	0.16	71.00	8.50	3.83	0.00
21.00	8.24	3.63	0.14	72.00	8.50	3.83	0.00
22.00	8.34	3.70	0.13	73.00	8.50	3.83	0.00
23.00	8.42	3.77	0.12	74.00	8.50	3.83	0.00
24.00	8.50	3.83	0.11	75.00	8.50	3.83	0.00
25.00	8.50	3.83	0.01	76.00	8.50	3.83	0.00
26.00	8.50	3.83	0.00	77.00	8.50	3.83	0.00
27.00	8.50	3.83	0.00	78.00	8.50	3.83	0.00
28.00	8.50	3.83	0.00	79.00	8.50	3.83	0.00
29.00	8.50	3.83	0.00	80.00	8.50	3.83	0.00
30.00	8.50	3.83	0.00	81.00	8.50	3.83	0.00
31.00	8.50	3.83	0.00	82.00	8.50	3.83	0.00
32.00	8.50	3.83	0.00	83.00	8.50	3.83	0.00
33.00	8.50	3.83	0.00	84.00	8.50	3.83	0.00
34.00	8.50	3.83	0.00	85.00	8.50	3.83	0.00
35.00	8.50	3.83	0.00	86.00	8.50	3.83	0.00
36.00	8.50	3.83	0.00	87.00	8.50	3.83	0.00
37.00	8.50	3.83	0.00	88.00	8.50	3.83	0.00
38.00	8.50	3.83	0.00	89.00	8.50	3.83	0.00
39.00	8.50	3.83	0.00	90.00	8.50	3.83	0.00
40.00	8.50	3.83	0.00	91.00	8.50	3.83	0.00
41.00	8.50	3.83	0.00	92.00	8.50	3.83	0.00
42.00	8.50	3.83	0.00	93.00	8.50	3.83	0.00
43.00	8.50	3.83	0.00	94.00	8.50	3.83	0.00
44.00	8.50	3.83	0.00	95.00	8.50	3.83	0.00
45.00	8.50	3.83	0.00	96.00	8.50	3.83	0.00
46.00	8.50	3.83	0.00	97.00	8.50	3.83	0.00
47.00	8.50	3.83	0.00	98.00	8.50	3.83	0.00
48.00	8.50	3.83	0.00	99.00	8.50	3.83	0.00
49.00	8.50	3.83	0.00	100.00	8.50	3.83	0.00
50.00	8.50	3.83	0.00				

Summary for Subcatchment 46S: P-200 PERV

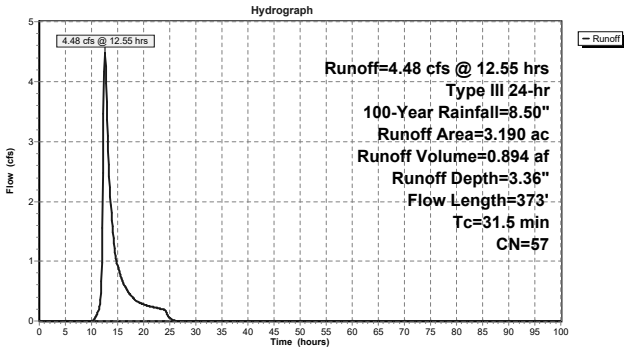
Runoff = 4.48 cfs @ 12.55 hrs, Volume= 0.894 af, Depth= 3.36"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
2.070	55	Woods, Good, HSG B
0.000	30	Woods, Good, HSG A
1.110	61	>75% Grass cover, Good, HSG B
0.010	39	>75% Grass cover, Good, HSG A
3.190	57	Weighted Average
3.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 46S: P-200 PERV



Hydrograph for Subcatchment 46S: P-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	3.36	0.00
1.00	0.08	0.00	0.00	52.00	8.50	3.36	0.00
2.00	0.17	0.00	0.00	53.00	8.50	3.36	0.00
3.00	0.26	0.00	0.00	54.00	8.50	3.36	0.00
4.00	0.37	0.00	0.00	55.00	8.50	3.36	0.00
5.00	0.48	0.00	0.00	56.00	8.50	3.36	0.00
6.00	0.61	0.00	0.00	57.00	8.50	3.36	0.00
7.00	0.77	0.00	0.00	58.00	8.50	3.36	0.00
8.00	0.97	0.00	0.00	59.00	8.50	3.36	0.00
9.00	1.24	0.00	0.00	60.00	8.50	3.36	0.00
10.00	1.61	0.00	0.00	61.00	8.50	3.36	0.00
11.00	2.12	0.05	0.10	62.00	8.50	3.36	0.00
12.00	4.25	0.73	0.98	63.00	8.50	3.36	0.00
13.00	6.37	1.91	3.36	64.00	8.50	3.36	0.00
14.00	6.89	2.24	1.58	65.00	8.50	3.36	0.00
15.00	7.26	2.49	0.93	66.00	8.50	3.36	0.00
16.00	7.53	2.67	0.66	67.00	8.50	3.36	0.00
17.00	7.73	2.81	0.49	68.00	8.50	3.36	0.00
18.00	7.89	2.92	0.39	69.00	8.50	3.36	0.00
19.00	8.02	3.01	0.31	70.00	8.50	3.36	0.00
20.00	8.13	3.10	0.28	71.00	8.50	3.36	0.00
21.00	8.24	3.17	0.25	72.00	8.50	3.36	0.00
22.00	8.34	3.24	0.23	73.00	8.50	3.36	0.00
23.00	8.42	3.31	0.21	74.00	8.50	3.36	0.00
24.00	8.50	3.36	0.19	75.00	8.50	3.36	0.00
25.00	8.50	3.36	0.05	76.00	8.50	3.36	0.00
26.00	8.50	3.36	0.01	77.00	8.50	3.36	0.00
27.00	8.50	3.36	0.00	78.00	8.50	3.36	0.00
28.00	8.50	3.36	0.00	79.00	8.50	3.36	0.00
29.00	8.50	3.36	0.00	80.00	8.50	3.36	0.00
30.00	8.50	3.36	0.00	81.00	8.50	3.36	0.00
31.00	8.50	3.36	0.00	82.00	8.50	3.36	0.00
32.00	8.50	3.36	0.00	83.00	8.50	3.36	0.00
33.00	8.50	3.36	0.00	84.00	8.50	3.36	0.00
34.00	8.50	3.36	0.00	85.00	8.50	3.36	0.00
35.00	8.50	3.36	0.00	86.00	8.50	3.36	0.00
36.00	8.50	3.36	0.00	87.00	8.50	3.36	0.00
37.00	8.50	3.36	0.00	88.00	8.50	3.36	0.00
38.00	8.50	3.36	0.00	89.00	8.50	3.36	0.00
39.00	8.50	3.36	0.00	90.00	8.50	3.36	0.00
40.00	8.50	3.36	0.00	91.00	8.50	3.36	0.00
41.00	8.50	3.36	0.00	92.00	8.50	3.36	0.00
42.00	8.50	3.36	0.00	93.00	8.50	3.36	0.00
43.00	8.50	3.36	0.00	94.00	8.50	3.36	0.00
44.00	8.50	3.36	0.00	95.00	8.50	3.36	0.00
45.00	8.50	3.36	0.00	96.00	8.50	3.36	0.00
46.00	8.50	3.36	0.00	97.00	8.50	3.36	0.00
47.00	8.50	3.36	0.00	98.00	8.50	3.36	0.00
48.00	8.50	3.36	0.00	99.00	8.50	3.36	0.00
49.00	8.50	3.36	0.00	100.00	8.50	3.36	0.00
50.00	8.50	3.36	0.00				

Summary for Subcatchment 47S: P-300 PERV

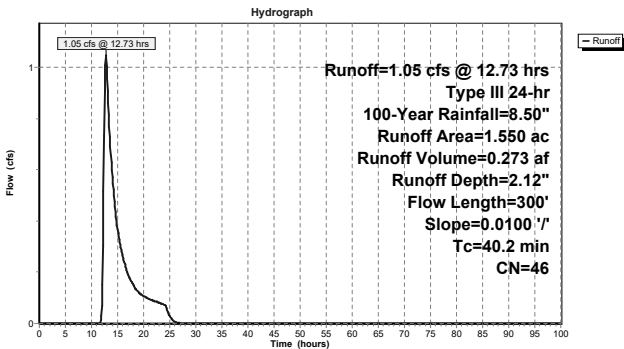
Runoff = 1.05 cfs @ 12.73 hrs, Volume= 0.273 af, Depth= 2.12"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	>75% Grass cover, Good, HSG B
0.900	39	>75% Grass cover, Good, HSG A
1.550	46	Weighted Average
1.550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 47S: P-300 PERV



Hydrograph for Subcatchment 47S: P-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	2.12	0.00
1.00	0.08	0.00	0.00	52.00	8.50	2.12	0.00
2.00	0.17	0.00	0.00	53.00	8.50	2.12	0.00
3.00	0.26	0.00	0.00	54.00	8.50	2.12	0.00
4.00	0.37	0.00	0.00	55.00	8.50	2.12	0.00
5.00	0.48	0.00	0.00	56.00	8.50	2.12	0.00
6.00	0.61	0.00	0.00	57.00	8.50	2.12	0.00
7.00	0.77	0.00	0.00	58.00	8.50	2.12	0.00
8.00	0.97	0.00	0.00	59.00	8.50	2.12	0.00
9.00	1.24	0.00	0.00	60.00	8.50	2.12	0.00
10.00	1.61	0.00	0.00	61.00	8.50	2.12	0.00
11.00	2.12	0.00	0.00	62.00	8.50	2.12	0.00
12.00	4.25	0.27	0.07	63.00	8.50	2.12	0.00
13.00	6.37	1.03	0.96	64.00	8.50	2.12	0.00
14.00	6.89	1.27	0.57	65.00	8.50	2.12	0.00
15.00	7.26	1.45	0.37	66.00	8.50	2.12	0.00
16.00	7.53	1.59	0.26	67.00	8.50	2.12	0.00
17.00	7.73	1.69	0.19	68.00	8.50	2.12	0.00
18.00	7.89	1.78	0.15	69.00	8.50	2.12	0.00
19.00	8.02	1.85	0.12	70.00	8.50	2.12	0.00
20.00	8.13	1.91	0.11	71.00	8.50	2.12	0.00
21.00	8.24	1.97	0.10	72.00	8.50	2.12	0.00
22.00	8.34	2.02	0.09	73.00	8.50	2.12	0.00
23.00	8.42	2.07	0.08	74.00	8.50	2.12	0.00
24.00	8.50	2.12	0.07	75.00	8.50	2.12	0.00
25.00	8.50	2.12	0.03	76.00	8.50	2.12	0.00
26.00	8.50	2.12	0.01	77.00	8.50	2.12	0.00
27.00	8.50	2.12	0.00	78.00	8.50	2.12	0.00
28.00	8.50	2.12	0.00	79.00	8.50	2.12	0.00
29.00	8.50	2.12	0.00	80.00	8.50	2.12	0.00
30.00	8.50	2.12	0.00	81.00	8.50	2.12	0.00
31.00	8.50	2.12	0.00	82.00	8.50	2.12	0.00
32.00	8.50	2.12	0.00	83.00	8.50	2.12	0.00
33.00	8.50	2.12	0.00	84.00	8.50	2.12	0.00
34.00	8.50	2.12	0.00	85.00	8.50	2.12	0.00
35.00	8.50	2.12	0.00	86.00	8.50	2.12	0.00
36.00	8.50	2.12	0.00	87.00	8.50	2.12	0.00
37.00	8.50	2.12	0.00	88.00	8.50	2.12	0.00
38.00	8.50	2.12	0.00	89.00	8.50	2.12	0.00
39.00	8.50	2.12	0.00	90.00	8.50	2.12	0.00
40.00	8.50	2.12	0.00	91.00	8.50	2.12	0.00
41.00	8.50	2.12	0.00	92.00	8.50	2.12	0.00
42.00	8.50	2.12	0.00	93.00	8.50	2.12	0.00
43.00	8.50	2.12	0.00	94.00	8.50	2.12	0.00
44.00	8.50	2.12	0.00	95.00	8.50	2.12	0.00
45.00	8.50	2.12	0.00	96.00	8.50	2.12	0.00
46.00	8.50	2.12	0.00	97.00	8.50	2.12	0.00
47.00	8.50	2.12	0.00	98.00	8.50	2.12	0.00
48.00	8.50	2.12	0.00	99.00	8.50	2.12	0.00
49.00	8.50	2.12	0.00	100.00	8.50	2.12	0.00
50.00	8.50	2.12	0.00				

Summary for Subcatchment 48S: P-400 PERV

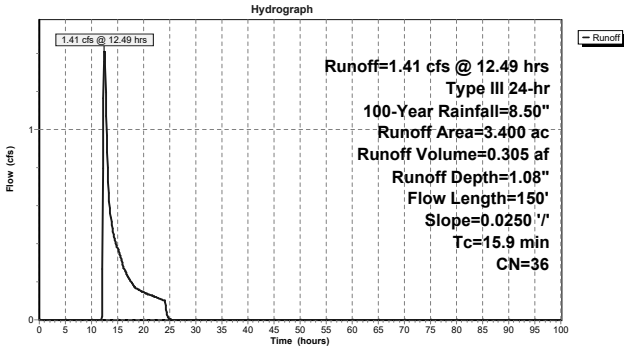
Runoff = 1.41 cfs @ 12.49 hrs, Volume= 0.305 af, Depth= 1.08"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.920	39	>75% Grass cover, Good, HSG A
3.400	36	Weighted Average
3.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 48S: P-400 PERV



Hydrograph for Subcatchment 48S: P-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	1.08	0.00
1.00	0.08	0.00	0.00	52.00	8.50	1.08	0.00
2.00	0.17	0.00	0.00	53.00	8.50	1.08	0.00
3.00	0.26	0.00	0.00	54.00	8.50	1.08	0.00
4.00	0.37	0.00	0.00	55.00	8.50	1.08	0.00
5.00	0.48	0.00	0.00	56.00	8.50	1.08	0.00
6.00	0.61	0.00	0.00	57.00	8.50	1.08	0.00
7.00	0.77	0.00	0.00	58.00	8.50	1.08	0.00
8.00	0.97	0.00	0.00	59.00	8.50	1.08	0.00
9.00	1.24	0.00	0.00	60.00	8.50	1.08	0.00
10.00	1.61	0.00	0.00	61.00	8.50	1.08	0.00
11.00	2.12	0.00	0.00	62.00	8.50	1.08	0.00
12.00	4.25	0.03	0.02	63.00	8.50	1.08	0.00
13.00	6.37	0.39	0.88	64.00	8.50	1.08	0.00
14.00	6.89	0.53	0.48	65.00	8.50	1.08	0.00
15.00	7.26	0.64	0.38	66.00	8.50	1.08	0.00
16.00	7.53	0.73	0.29	67.00	8.50	1.08	0.00
17.00	7.73	0.79	0.23	68.00	8.50	1.08	0.00
18.00	7.89	0.85	0.18	69.00	8.50	1.08	0.00
19.00	8.02	0.90	0.16	70.00	8.50	1.08	0.00
20.00	8.13	0.94	0.14	71.00	8.50	1.08	0.00
21.00	8.24	0.98	0.13	72.00	8.50	1.08	0.00
22.00	8.34	1.01	0.12	73.00	8.50	1.08	0.00
23.00	8.42	1.05	0.11	74.00	8.50	1.08	0.00
24.00	8.50	1.08	0.10	75.00	8.50	1.08	0.00
25.00	8.50	1.08	0.00	76.00	8.50	1.08	0.00
26.00	8.50	1.08	0.00	77.00	8.50	1.08	0.00
27.00	8.50	1.08	0.00	78.00	8.50	1.08	0.00
28.00	8.50	1.08	0.00	79.00	8.50	1.08	0.00
29.00	8.50	1.08	0.00	80.00	8.50	1.08	0.00
30.00	8.50	1.08	0.00	81.00	8.50	1.08	0.00
31.00	8.50	1.08	0.00	82.00	8.50	1.08	0.00
32.00	8.50	1.08	0.00	83.00	8.50	1.08	0.00
33.00	8.50	1.08	0.00	84.00	8.50	1.08	0.00
34.00	8.50	1.08	0.00	85.00	8.50	1.08	0.00
35.00	8.50	1.08	0.00	86.00	8.50	1.08	0.00
36.00	8.50	1.08	0.00	87.00	8.50	1.08	0.00
37.00	8.50	1.08	0.00	88.00	8.50	1.08	0.00
38.00	8.50	1.08	0.00	89.00	8.50	1.08	0.00
39.00	8.50	1.08	0.00	90.00	8.50	1.08	0.00
40.00	8.50	1.08	0.00	91.00	8.50	1.08	0.00
41.00	8.50	1.08	0.00	92.00	8.50	1.08	0.00
42.00	8.50	1.08	0.00	93.00	8.50	1.08	0.00
43.00	8.50	1.08	0.00	94.00	8.50	1.08	0.00
44.00	8.50	1.08	0.00	95.00	8.50	1.08	0.00
45.00	8.50	1.08	0.00	96.00	8.50	1.08	0.00
46.00	8.50	1.08	0.00	97.00	8.50	1.08	0.00
47.00	8.50	1.08	0.00	98.00	8.50	1.08	0.00
48.00	8.50	1.08	0.00	99.00	8.50	1.08	0.00
49.00	8.50	1.08	0.00	100.00	8.50	1.08	0.00
50.00	8.50	1.08	0.00				

Summary for Subcatchment 49S: P-100 IMP

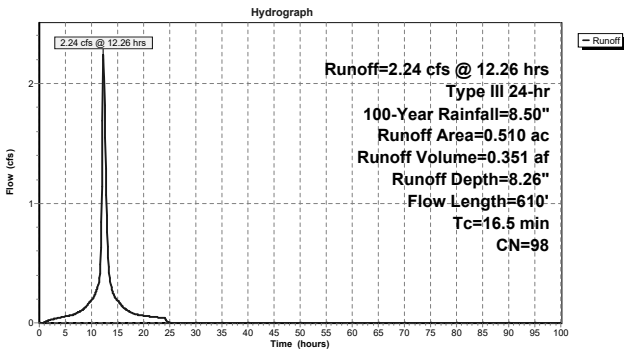
Runoff = 2.24 cfs @ 12.26 hrs, Volume= 0.351 af, Depth= 8.26"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.510	98	Unconnected pavement
0.510		100.00% Impervious Area
0.510		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 49S: P-100 IMP



Hydrograph for Subcatchment 49S: P-100 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	8.26	0.00
1.00	0.08	0.01	0.01	52.00	8.50	8.26	0.00
2.00	0.17	0.05	0.02	53.00	8.50	8.26	0.00
3.00	0.26	0.11	0.03	54.00	8.50	8.26	0.00
4.00	0.37	0.20	0.04	55.00	8.50	8.26	0.00
5.00	0.48	0.30	0.05	56.00	8.50	8.26	0.00
6.00	0.61	0.42	0.06	57.00	8.50	8.26	0.00
7.00	0.77	0.57	0.08	58.00	8.50	8.26	0.00
8.00	0.97	0.76	0.10	59.00	8.50	8.26	0.00
9.00	1.24	1.02	0.14	60.00	8.50	8.26	0.00
10.00	1.61	1.39	0.19	61.00	8.50	8.26	0.00
11.00	2.12	1.90	0.27	62.00	8.50	8.26	0.00
12.00	4.25	4.01	1.14	63.00	8.50	8.26	0.00
13.00	6.37	6.14	0.76	64.00	8.50	8.26	0.00
14.00	6.89	6.65	0.26	65.00	8.50	8.26	0.00
15.00	7.26	7.02	0.19	66.00	8.50	8.26	0.00
16.00	7.53	7.29	0.13	67.00	8.50	8.26	0.00
17.00	7.73	7.49	0.10	68.00	8.50	8.26	0.00
18.00	7.89	7.65	0.08	69.00	8.50	8.26	0.00
19.00	8.02	7.78	0.07	70.00	8.50	8.26	0.00
20.00	8.13	7.89	0.06	71.00	8.50	8.26	0.00
21.00	8.24	8.00	0.05	72.00	8.50	8.26	0.00
22.00	8.34	8.10	0.05	73.00	8.50	8.26	0.00
23.00	8.42	8.18	0.04	74.00	8.50	8.26	0.00
24.00	8.50	8.26	0.04	75.00	8.50	8.26	0.00
25.00	8.50	8.26	0.00	76.00	8.50	8.26	0.00
26.00	8.50	8.26	0.00	77.00	8.50	8.26	0.00
27.00	8.50	8.26	0.00	78.00	8.50	8.26	0.00
28.00	8.50	8.26	0.00	79.00	8.50	8.26	0.00
29.00	8.50	8.26	0.00	80.00	8.50	8.26	0.00
30.00	8.50	8.26	0.00	81.00	8.50	8.26	0.00
31.00	8.50	8.26	0.00	82.00	8.50	8.26	0.00
32.00	8.50	8.26	0.00	83.00	8.50	8.26	0.00
33.00	8.50	8.26	0.00	84.00	8.50	8.26	0.00
34.00	8.50	8.26	0.00	85.00	8.50	8.26	0.00
35.00	8.50	8.26	0.00	86.00	8.50	8.26	0.00
36.00	8.50	8.26	0.00	87.00	8.50	8.26	0.00
37.00	8.50	8.26	0.00	88.00	8.50	8.26	0.00
38.00	8.50	8.26	0.00	89.00	8.50	8.26	0.00
39.00	8.50	8.26	0.00	90.00	8.50	8.26	0.00
40.00	8.50	8.26	0.00	91.00	8.50	8.26	0.00
41.00	8.50	8.26	0.00	92.00	8.50	8.26	0.00
42.00	8.50	8.26	0.00	93.00	8.50	8.26	0.00
43.00	8.50	8.26	0.00	94.00	8.50	8.26	0.00
44.00	8.50	8.26	0.00	95.00	8.50	8.26	0.00
45.00	8.50	8.26	0.00	96.00	8.50	8.26	0.00
46.00	8.50	8.26	0.00	97.00	8.50	8.26	0.00
47.00	8.50	8.26	0.00	98.00	8.50	8.26	0.00
48.00	8.50	8.26	0.00	99.00	8.50	8.26	0.00
49.00	8.50	8.26	0.00	100.00	8.50	8.26	0.00
50.00	8.50	8.26	0.00				

Summary for Subcatchment 50S: P-200 IMP

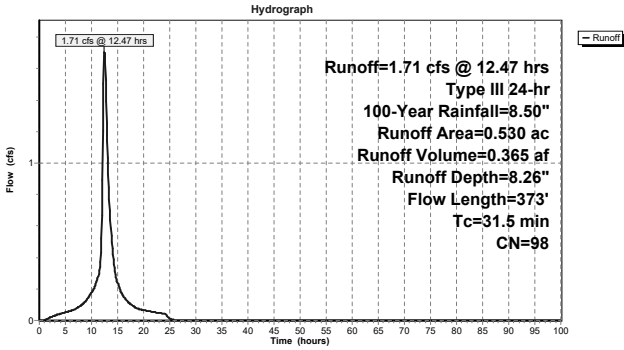
Runoff = 1.71 cfs @ 12.47 hrs, Volume= 0.365 af, Depth= 8.26"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
* 0.530	98	Unconnected pavement
0.530		100.00% Impervious Area
0.530		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 50S: P-200 IMP



Hydrograph for Subcatchment 50S: P-200 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	8.26	0.00
1.00	0.08	0.01	0.00	52.00	8.50	8.26	0.00
2.00	0.17	0.05	0.02	53.00	8.50	8.26	0.00
3.00	0.26	0.11	0.03	54.00	8.50	8.26	0.00
4.00	0.37	0.20	0.04	55.00	8.50	8.26	0.00
5.00	0.48	0.30	0.05	56.00	8.50	8.26	0.00
6.00	0.61	0.42	0.06	57.00	8.50	8.26	0.00
7.00	0.77	0.57	0.07	58.00	8.50	8.26	0.00
8.00	0.97	0.76	0.10	59.00	8.50	8.26	0.00
9.00	1.24	1.02	0.13	60.00	8.50	8.26	0.00
10.00	1.61	1.39	0.18	61.00	8.50	8.26	0.00
11.00	2.12	1.90	0.25	62.00	8.50	8.26	0.00
12.00	4.25	4.01	0.67	63.00	8.50	8.26	0.00
13.00	6.37	6.14	1.14	64.00	8.50	8.26	0.00
14.00	6.89	6.65	0.46	65.00	8.50	8.26	0.00
15.00	7.26	7.02	0.24	66.00	8.50	8.26	0.00
16.00	7.53	7.29	0.16	67.00	8.50	8.26	0.00
17.00	7.73	7.49	0.12	68.00	8.50	8.26	0.00
18.00	7.89	7.65	0.09	69.00	8.50	8.26	0.00
19.00	8.02	7.78	0.07	70.00	8.50	8.26	0.00
20.00	8.13	7.89	0.06	71.00	8.50	8.26	0.00
21.00	8.24	8.00	0.06	72.00	8.50	8.26	0.00
22.00	8.34	8.10	0.05	73.00	8.50	8.26	0.00
23.00	8.42	8.18	0.05	74.00	8.50	8.26	0.00
24.00	8.50	8.26	0.04	75.00	8.50	8.26	0.00
25.00	8.50	8.26	0.01	76.00	8.50	8.26	0.00
26.00	8.50	8.26	0.00	77.00	8.50	8.26	0.00
27.00	8.50	8.26	0.00	78.00	8.50	8.26	0.00
28.00	8.50	8.26	0.00	79.00	8.50	8.26	0.00
29.00	8.50	8.26	0.00	80.00	8.50	8.26	0.00
30.00	8.50	8.26	0.00	81.00	8.50	8.26	0.00
31.00	8.50	8.26	0.00	82.00	8.50	8.26	0.00
32.00	8.50	8.26	0.00	83.00	8.50	8.26	0.00
33.00	8.50	8.26	0.00	84.00	8.50	8.26	0.00
34.00	8.50	8.26	0.00	85.00	8.50	8.26	0.00
35.00	8.50	8.26	0.00	86.00	8.50	8.26	0.00
36.00	8.50	8.26	0.00	87.00	8.50	8.26	0.00
37.00	8.50	8.26	0.00	88.00	8.50	8.26	0.00
38.00	8.50	8.26	0.00	89.00	8.50	8.26	0.00
39.00	8.50	8.26	0.00	90.00	8.50	8.26	0.00
40.00	8.50	8.26	0.00	91.00	8.50	8.26	0.00
41.00	8.50	8.26	0.00	92.00	8.50	8.26	0.00
42.00	8.50	8.26	0.00	93.00	8.50	8.26	0.00
43.00	8.50	8.26	0.00	94.00	8.50	8.26	0.00
44.00	8.50	8.26	0.00	95.00	8.50	8.26	0.00
45.00	8.50	8.26	0.00	96.00	8.50	8.26	0.00
46.00	8.50	8.26	0.00	97.00	8.50	8.26	0.00
47.00	8.50	8.26	0.00	98.00	8.50	8.26	0.00
48.00	8.50	8.26	0.00	99.00	8.50	8.26	0.00
49.00	8.50	8.26	0.00	100.00	8.50	8.26	0.00
50.00	8.50	8.26	0.00				

Summary for Subcatchment 51S: P-300 IMP

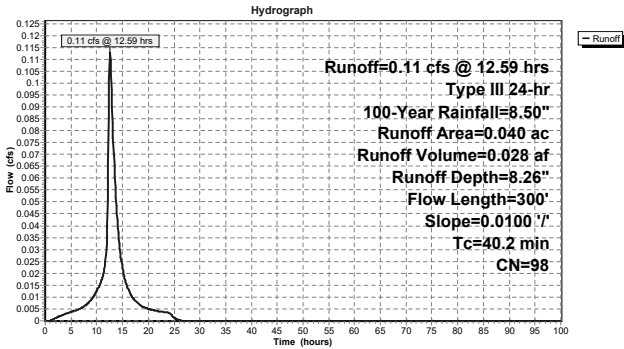
Runoff = 0.11 cfs @ 12.59 hrs, Volume= 0.028 af, Depth= 8.26"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
* 0.040	98	Unconnected pavement
0.040		100.00% Impervious Area
0.040		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 51S: P-300 IMP



Hydrograph for Subcatchment 51S: P-300 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	8.26	0.00
1.00	0.08	0.01	0.00	52.00	8.50	8.26	0.00
2.00	0.17	0.05	0.00	53.00	8.50	8.26	0.00
3.00	0.26	0.11	0.00	54.00	8.50	8.26	0.00
4.00	0.37	0.20	0.00	55.00	8.50	8.26	0.00
5.00	0.48	0.30	0.00	56.00	8.50	8.26	0.00
6.00	0.61	0.42	0.00	57.00	8.50	8.26	0.00
7.00	0.77	0.57	0.01	58.00	8.50	8.26	0.00
8.00	0.97	0.76	0.01	59.00	8.50	8.26	0.00
9.00	1.24	1.02	0.01	60.00	8.50	8.26	0.00
10.00	1.61	1.39	0.01	61.00	8.50	8.26	0.00
11.00	2.12	1.90	0.02	62.00	8.50	8.26	0.00
12.00	4.25	4.01	0.04	63.00	8.50	8.26	0.00
13.00	6.37	6.14	0.09	64.00	8.50	8.26	0.00
14.00	6.89	6.65	0.04	65.00	8.50	8.26	0.00
15.00	7.26	7.02	0.02	66.00	8.50	8.26	0.00
16.00	7.53	7.29	0.01	67.00	8.50	8.26	0.00
17.00	7.73	7.49	0.01	68.00	8.50	8.26	0.00
18.00	7.89	7.65	0.01	69.00	8.50	8.26	0.00
19.00	8.02	7.78	0.01	70.00	8.50	8.26	0.00
20.00	8.13	7.89	0.01	71.00	8.50	8.26	0.00
21.00	8.24	8.00	0.00	72.00	8.50	8.26	0.00
22.00	8.34	8.10	0.00	73.00	8.50	8.26	0.00
23.00	8.42	8.18	0.00	74.00	8.50	8.26	0.00
24.00	8.50	8.26	0.00	75.00	8.50	8.26	0.00
25.00	8.50	8.26	0.00	76.00	8.50	8.26	0.00
26.00	8.50	8.26	0.00	77.00	8.50	8.26	0.00
27.00	8.50	8.26	0.00	78.00	8.50	8.26	0.00
28.00	8.50	8.26	0.00	79.00	8.50	8.26	0.00
29.00	8.50	8.26	0.00	80.00	8.50	8.26	0.00
30.00	8.50	8.26	0.00	81.00	8.50	8.26	0.00
31.00	8.50	8.26	0.00	82.00	8.50	8.26	0.00
32.00	8.50	8.26	0.00	83.00	8.50	8.26	0.00
33.00	8.50	8.26	0.00	84.00	8.50	8.26	0.00
34.00	8.50	8.26	0.00	85.00	8.50	8.26	0.00
35.00	8.50	8.26	0.00	86.00	8.50	8.26	0.00
36.00	8.50	8.26	0.00	87.00	8.50	8.26	0.00
37.00	8.50	8.26	0.00	88.00	8.50	8.26	0.00
38.00	8.50	8.26	0.00	89.00	8.50	8.26	0.00
39.00	8.50	8.26	0.00	90.00	8.50	8.26	0.00
40.00	8.50	8.26	0.00	91.00	8.50	8.26	0.00
41.00	8.50	8.26	0.00	92.00	8.50	8.26	0.00
42.00	8.50	8.26	0.00	93.00	8.50	8.26	0.00
43.00	8.50	8.26	0.00	94.00	8.50	8.26	0.00
44.00	8.50	8.26	0.00	95.00	8.50	8.26	0.00
45.00	8.50	8.26	0.00	96.00	8.50	8.26	0.00
46.00	8.50	8.26	0.00	97.00	8.50	8.26	0.00
47.00	8.50	8.26	0.00	98.00	8.50	8.26	0.00
48.00	8.50	8.26	0.00	99.00	8.50	8.26	0.00
49.00	8.50	8.26	0.00	100.00	8.50	8.26	0.00
50.00	8.50	8.26	0.00				

Summary for Subcatchment 52S: P-400 IMP

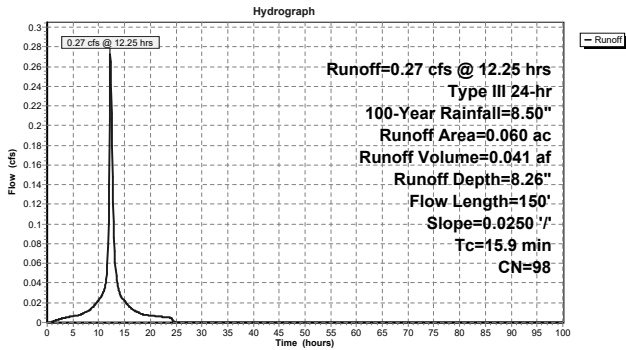
Runoff = 0.27 cfs @ 12.25 hrs, Volume= 0.041 af, Depth= 8.26"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.060	98	Unconnected pavement
0.060		100.00% Impervious Area
0.060		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150	Total			

Subcatchment 52S: P-400 IMP



Hydrograph for Subcatchment 52S: P-400 IMP

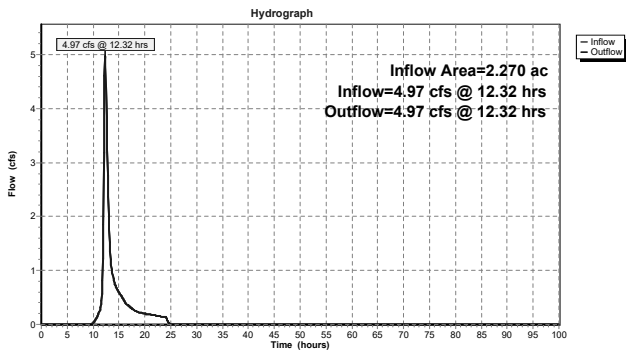
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	8.26	0.00
1.00	0.08	0.01	0.00	52.00	8.50	8.26	0.00
2.00	0.17	0.05	0.00	53.00	8.50	8.26	0.00
3.00	0.26	0.11	0.00	54.00	8.50	8.26	0.00
4.00	0.37	0.20	0.01	55.00	8.50	8.26	0.00
5.00	0.48	0.30	0.01	56.00	8.50	8.26	0.00
6.00	0.61	0.42	0.01	57.00	8.50	8.26	0.00
7.00	0.77	0.57	0.01	58.00	8.50	8.26	0.00
8.00	0.97	0.76	0.01	59.00	8.50	8.26	0.00
9.00	1.24	1.02	0.02	60.00	8.50	8.26	0.00
10.00	1.61	1.39	0.02	61.00	8.50	8.26	0.00
11.00	2.12	1.90	0.03	62.00	8.50	8.26	0.00
12.00	4.25	4.01	0.14	63.00	8.50	8.26	0.00
13.00	6.37	6.14	0.09	64.00	8.50	8.26	0.00
14.00	6.89	6.65	0.03	65.00	8.50	8.26	0.00
15.00	7.26	7.02	0.02	66.00	8.50	8.26	0.00
16.00	7.53	7.29	0.02	67.00	8.50	8.26	0.00
17.00	7.73	7.49	0.01	68.00	8.50	8.26	0.00
18.00	7.89	7.65	0.01	69.00	8.50	8.26	0.00
19.00	8.02	7.78	0.01	70.00	8.50	8.26	0.00
20.00	8.13	7.89	0.01	71.00	8.50	8.26	0.00
21.00	8.24	8.00	0.01	72.00	8.50	8.26	0.00
22.00	8.34	8.10	0.01	73.00	8.50	8.26	0.00
23.00	8.42	8.18	0.01	74.00	8.50	8.26	0.00
24.00	8.50	8.26	0.00	75.00	8.50	8.26	0.00
25.00	8.50	8.26	0.00	76.00	8.50	8.26	0.00
26.00	8.50	8.26	0.00	77.00	8.50	8.26	0.00
27.00	8.50	8.26	0.00	78.00	8.50	8.26	0.00
28.00	8.50	8.26	0.00	79.00	8.50	8.26	0.00
29.00	8.50	8.26	0.00	80.00	8.50	8.26	0.00
30.00	8.50	8.26	0.00	81.00	8.50	8.26	0.00
31.00	8.50	8.26	0.00	82.00	8.50	8.26	0.00
32.00	8.50	8.26	0.00	83.00	8.50	8.26	0.00
33.00	8.50	8.26	0.00	84.00	8.50	8.26	0.00
34.00	8.50	8.26	0.00	85.00	8.50	8.26	0.00
35.00	8.50	8.26	0.00	86.00	8.50	8.26	0.00
36.00	8.50	8.26	0.00	87.00	8.50	8.26	0.00
37.00	8.50	8.26	0.00	88.00	8.50	8.26	0.00
38.00	8.50	8.26	0.00	89.00	8.50	8.26	0.00
39.00	8.50	8.26	0.00	90.00	8.50	8.26	0.00
40.00	8.50	8.26	0.00	91.00	8.50	8.26	0.00
41.00	8.50	8.26	0.00	92.00	8.50	8.26	0.00
42.00	8.50	8.26	0.00	93.00	8.50	8.26	0.00
43.00	8.50	8.26	0.00	94.00	8.50	8.26	0.00
44.00	8.50	8.26	0.00	95.00	8.50	8.26	0.00
45.00	8.50	8.26	0.00	96.00	8.50	8.26	0.00
46.00	8.50	8.26	0.00	97.00	8.50	8.26	0.00
47.00	8.50	8.26	0.00	98.00	8.50	8.26	0.00
48.00	8.50	8.26	0.00	99.00	8.50	8.26	0.00
49.00	8.50	8.26	0.00	100.00	8.50	8.26	0.00
50.00	8.50	8.26	0.00				

Summary for Reach 6R: E-100

Inflow Area = 2.270 ac, 0.00% Impervious, Inflow Depth = 3.71" for 100-Year event
 Inflow = 4.97 cfs @ 12.32 hrs, Volume= 0.702 af
 Outflow = 4.97 cfs @ 12.32 hrs, Volume= 0.702 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 6R: E-100



Hydrograph for Reach 6R: E-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.03	0.03	0.00	61.00	0.00	0.00	0.00
11.00	0.18	0.18	0.00	62.00	0.00	0.00	0.00
12.00	1.85	1.85	0.00	63.00	0.00	0.00	0.00
13.00	2.04	2.04	0.00	64.00	0.00	0.00	0.00
14.00	0.81	0.81	0.00	65.00	0.00	0.00	0.00
15.00	0.59	0.59	0.00	66.00	0.00	0.00	0.00
16.00	0.44	0.44	0.00	67.00	0.00	0.00	0.00
17.00	0.33	0.33	0.00	68.00	0.00	0.00	0.00
18.00	0.26	0.26	0.00	69.00	0.00	0.00	0.00
19.00	0.22	0.22	0.00	70.00	0.00	0.00	0.00
20.00	0.20	0.20	0.00	71.00	0.00	0.00	0.00
21.00	0.18	0.18	0.00	72.00	0.00	0.00	0.00
22.00	0.17	0.17	0.00	73.00	0.00	0.00	0.00
23.00	0.15	0.15	0.00	74.00	0.00	0.00	0.00
24.00	0.13	0.13	0.00	75.00	0.00	0.00	0.00
25.00	0.01	0.01	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

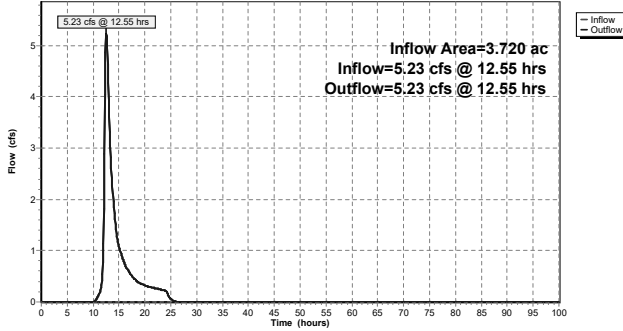
Summary for Reach 7R: E-200

Inflow Area = 3.720 ac, 0.00% Impervious, Inflow Depth = 3.36" for 100-Year event
 Inflow = 5.23 cfs @ 12.55 hrs, Volume= 1.042 af
 Outflow = 5.23 cfs @ 12.55 hrs, Volume= 1.042 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 7R: E-200

Hydrograph



Hydrograph for Reach 7R: E-200

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.12	1.12	0.12	62.00	0.00		0.00
12.00	1.14	1.14	1.14	63.00	0.00		0.00
13.00	3.92	3.92	3.92	64.00	0.00		0.00
14.00	1.84	1.84	1.84	65.00	0.00		0.00
15.00	1.08	1.08	1.08	66.00	0.00		0.00
16.00	0.77	0.77	0.77	67.00	0.00		0.00
17.00	0.57	0.57	0.57	68.00	0.00		0.00
18.00	0.45	0.45	0.45	69.00	0.00		0.00
19.00	0.37	0.37	0.37	70.00	0.00		0.00
20.00	0.32	0.32	0.32	71.00	0.00		0.00
21.00	0.29	0.29	0.29	72.00	0.00		0.00
22.00	0.27	0.27	0.27	73.00	0.00		0.00
23.00	0.24	0.24	0.24	74.00	0.00		0.00
24.00	0.22	0.22	0.22	75.00	0.00		0.00
25.00	0.06	0.06	0.06	76.00	0.00		0.00
26.00	0.01	0.01	0.01	77.00	0.00		0.00
27.00	0.00	0.00	0.00	78.00	0.00		0.00
28.00	0.00	0.00	0.00	79.00	0.00		0.00
29.00	0.00	0.00	0.00	80.00	0.00		0.00
30.00	0.00	0.00	0.00	81.00	0.00		0.00
31.00	0.00	0.00	0.00	82.00	0.00		0.00
32.00	0.00	0.00	0.00	83.00	0.00		0.00
33.00	0.00	0.00	0.00	84.00	0.00		0.00
34.00	0.00	0.00	0.00	85.00	0.00		0.00
35.00	0.00	0.00	0.00	86.00	0.00		0.00
36.00	0.00	0.00	0.00	87.00	0.00		0.00
37.00	0.00	0.00	0.00	88.00	0.00		0.00
38.00	0.00	0.00	0.00	89.00	0.00		0.00
39.00	0.00	0.00	0.00	90.00	0.00		0.00
40.00	0.00	0.00	0.00	91.00	0.00		0.00
41.00	0.00	0.00	0.00	92.00	0.00		0.00
42.00	0.00	0.00	0.00	93.00	0.00		0.00
43.00	0.00	0.00	0.00	94.00	0.00		0.00
44.00	0.00	0.00	0.00	95.00	0.00		0.00
45.00	0.00	0.00	0.00	96.00	0.00		0.00
46.00	0.00	0.00	0.00	97.00	0.00		0.00
47.00	0.00	0.00	0.00	98.00	0.00		0.00
48.00	0.00	0.00	0.00	99.00	0.00		0.00
49.00	0.00	0.00	0.00	100.00	0.00		0.00
50.00	0.00		0.00				

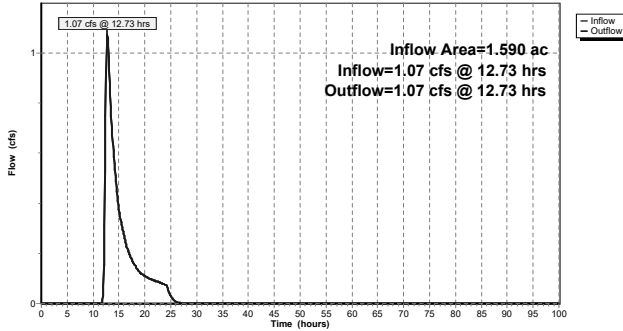
Summary for Reach 8R: E-300

Inflow Area = 1.590 ac, 0.00% Impervious, Inflow Depth = 2.12" for 100-Year event
 Inflow = 1.07 cfs @ 12.73 hrs, Volume= 0.280 af
 Outflow = 1.07 cfs @ 12.73 hrs, Volume= 0.280 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 8R: E-300

Hydrograph



Hydrograph for Reach 8R: E-300

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.07	0.07	0.07	63.00	0.00		0.00
13.00	0.98	0.98	0.98	64.00	0.00		0.00
14.00	0.58	0.58	0.58	65.00	0.00		0.00
15.00	0.38	0.38	0.38	66.00	0.00		0.00
16.00	0.27	0.27	0.27	67.00	0.00		0.00
17.00	0.20	0.20	0.20	68.00	0.00		0.00
18.00	0.15	0.15	0.15	69.00	0.00		0.00
19.00	0.12	0.12	0.12	70.00	0.00		0.00
20.00	0.11	0.11	0.11	71.00	0.00		0.00
21.00	0.10	0.10	0.10	72.00	0.00		0.00
22.00	0.09	0.09	0.09	73.00	0.00		0.00
23.00	0.08	0.08	0.08	74.00	0.00		0.00
24.00	0.07	0.07	0.07	75.00	0.00		0.00
25.00	0.03	0.03	0.03	76.00	0.00		0.00
26.00	0.01	0.01	0.01	77.00	0.00		0.00
27.00	0.00	0.00	0.00	78.00	0.00		0.00
28.00	0.00	0.00	0.00	79.00	0.00		0.00
29.00	0.00	0.00	0.00	80.00	0.00		0.00
30.00	0.00	0.00	0.00	81.00	0.00		0.00
31.00	0.00	0.00	0.00	82.00	0.00		0.00
32.00	0.00	0.00	0.00	83.00	0.00		0.00
33.00	0.00	0.00	0.00	84.00	0.00		0.00
34.00	0.00	0.00	0.00	85.00	0.00		0.00
35.00	0.00	0.00	0.00	86.00	0.00		0.00
36.00	0.00	0.00	0.00	87.00	0.00		0.00
37.00	0.00	0.00	0.00	88.00	0.00		0.00
38.00	0.00	0.00	0.00	89.00	0.00		0.00
39.00	0.00	0.00	0.00	90.00	0.00		0.00
40.00	0.00	0.00	0.00	91.00	0.00		0.00
41.00	0.00	0.00	0.00	92.00	0.00		0.00
42.00	0.00	0.00	0.00	93.00	0.00		0.00
43.00	0.00	0.00	0.00	94.00	0.00		0.00
44.00	0.00	0.00	0.00	95.00	0.00		0.00
45.00	0.00	0.00	0.00	96.00	0.00		0.00
46.00	0.00	0.00	0.00	97.00	0.00		0.00
47.00	0.00	0.00	0.00	98.00	0.00		0.00
48.00	0.00	0.00	0.00	99.00	0.00		0.00
49.00	0.00	0.00	0.00	100.00	0.00		0.00
50.00	0.00		0.00				

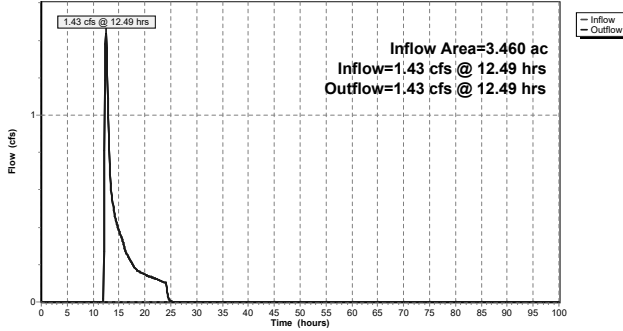
Summary for Reach 22R: E-400

Inflow Area = 3.460 ac, 0.00% Impervious, Inflow Depth = 1.08" for 100-Year event
 Inflow = 1.43 cfs @ 12.49 hrs, Volume= 0.310 af
 Outflow = 1.43 cfs @ 12.49 hrs, Volume= 0.310 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 22R: E-400

Hydrograph



Hydrograph for Reach 22R: E-400

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.02	0.02	0.02	63.00	0.00	0.00	0.00
13.00	0.90	0.90	0.90	64.00	0.00	0.00	0.00
14.00	0.49	0.49	0.49	65.00	0.00	0.00	0.00
15.00	0.38	0.38	0.38	66.00	0.00	0.00	0.00
16.00	0.30	0.30	0.30	67.00	0.00	0.00	0.00
17.00	0.23	0.23	0.23	68.00	0.00	0.00	0.00
18.00	0.19	0.19	0.19	69.00	0.00	0.00	0.00
19.00	0.16	0.16	0.16	70.00	0.00	0.00	0.00
20.00	0.15	0.15	0.15	71.00	0.00	0.00	0.00
21.00	0.14	0.14	0.14	72.00	0.00	0.00	0.00
22.00	0.13	0.13	0.13	73.00	0.00	0.00	0.00
23.00	0.11	0.11	0.11	74.00	0.00	0.00	0.00
24.00	0.10	0.10	0.10	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

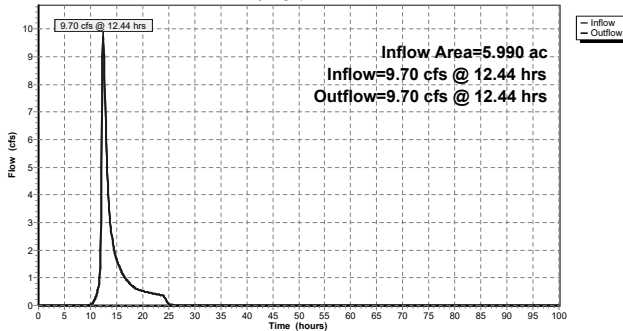
Summary for Reach 23R: E-POA "A"

Inflow Area = 5.990 ac, 0.00% Impervious, Inflow Depth = 3.50" for 100-Year event
 Inflow = 9.70 cfs @ 12.44 hrs, Volume= 1.745 af
 Outflow = 9.70 cfs @ 12.44 hrs, Volume= 1.745 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 23R: E-POA "A"

Hydrograph



Hydrograph for Reach 23R: E-POA "A"

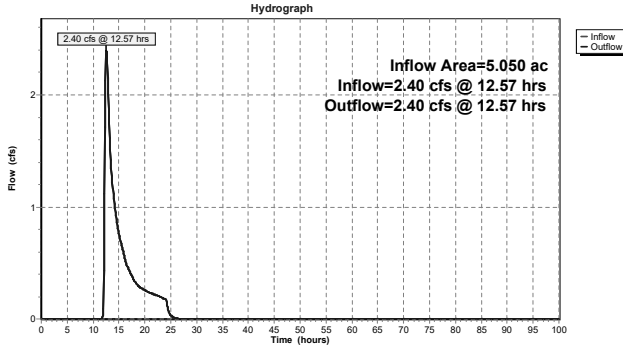
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.03	0.03	0.03	61.00	0.00	0.00	0.00
11.00	0.30	0.30	0.30	62.00	0.00	0.00	0.00
12.00	2.99	2.99	2.99	63.00	0.00	0.00	0.00
13.00	5.96	5.96	5.96	64.00	0.00	0.00	0.00
14.00	2.65	2.65	2.65	65.00	0.00	0.00	0.00
15.00	1.67	1.67	1.67	66.00	0.00	0.00	0.00
16.00	1.20	1.20	1.20	67.00	0.00	0.00	0.00
17.00	0.90	0.90	0.90	68.00	0.00	0.00	0.00
18.00	0.71	0.71	0.71	69.00	0.00	0.00	0.00
19.00	0.59	0.59	0.59	70.00	0.00	0.00	0.00
20.00	0.52	0.52	0.52	71.00	0.00	0.00	0.00
21.00	0.48	0.48	0.48	72.00	0.00	0.00	0.00
22.00	0.43	0.43	0.43	73.00	0.00	0.00	0.00
23.00	0.39	0.39	0.39	74.00	0.00	0.00	0.00
24.00	0.35	0.35	0.35	75.00	0.00	0.00	0.00
25.00	0.07	0.07	0.07	76.00	0.00	0.00	0.00
26.00	0.01	0.01	0.01	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 25R: E-POA "B"

Inflow Area = 5.050 ac, 0.00% Impervious, Inflow Depth = 1.40" for 100-Year event
 Inflow = 2.40 cfs @ 12.57 hrs, Volume= 0.591 af
 Outflow = 2.40 cfs @ 12.57 hrs, Volume= 0.591 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 25R: E-POA "B"



Hydrograph for Reach 25R: E-POA "B"

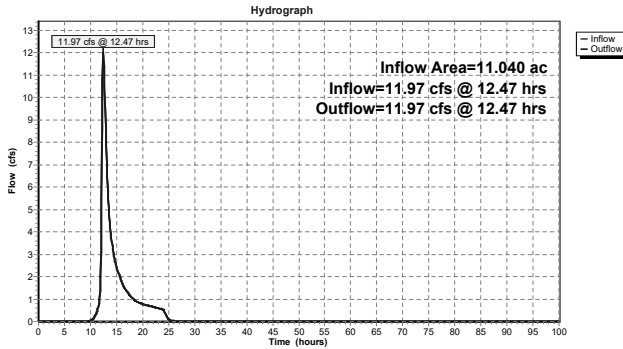
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.09	0.09	0.09	63.00	0.00	0.00	0.00
13.00	1.88	1.88	1.88	64.00	0.00	0.00	0.00
14.00	1.07	1.07	1.07	65.00	0.00	0.00	0.00
15.00	0.76	0.76	0.76	66.00	0.00	0.00	0.00
16.00	0.57	0.57	0.57	67.00	0.00	0.00	0.00
17.00	0.43	0.43	0.43	68.00	0.00	0.00	0.00
18.00	0.34	0.34	0.34	69.00	0.00	0.00	0.00
19.00	0.29	0.29	0.29	70.00	0.00	0.00	0.00
20.00	0.26	0.26	0.26	71.00	0.00	0.00	0.00
21.00	0.23	0.23	0.23	72.00	0.00	0.00	0.00
22.00	0.22	0.22	0.22	73.00	0.00	0.00	0.00
23.00	0.20	0.20	0.20	74.00	0.00	0.00	0.00
24.00	0.18	0.18	0.18	75.00	0.00	0.00	0.00
25.00	0.18	0.18	0.18	76.00	0.00	0.00	0.00
26.00	0.01	0.01	0.01	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 26R: E-POA

Inflow Area = 11.040 ac, 0.00% Impervious, Inflow Depth = 2.54" for 100-Year event
 Inflow = 11.97 cfs @ 12.47 hrs, Volume= 2.335 af
 Outflow = 11.97 cfs @ 12.47 hrs, Volume= 2.335 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 26R: E-POA



Hydrograph for Reach 26R: E-POA

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.03	0.03	0.03	61.00	0.00	0.00	0.00
11.00	0.30	0.30	0.30	62.00	0.00	0.00	0.00
12.00	3.08	3.08	3.08	63.00	0.00	0.00	0.00
13.00	7.83	7.83	7.83	64.00	0.00	0.00	0.00
14.00	3.73	3.73	3.73	65.00	0.00	0.00	0.00
15.00	2.43	2.43	2.43	66.00	0.00	0.00	0.00
16.00	1.77	1.77	1.77	67.00	0.00	0.00	0.00
17.00	1.33	1.33	1.33	68.00	0.00	0.00	0.00
18.00	1.05	1.05	1.05	69.00	0.00	0.00	0.00
19.00	0.87	0.87	0.87	70.00	0.00	0.00	0.00
20.00	0.78	0.78	0.78	71.00	0.00	0.00	0.00
21.00	0.71	0.71	0.71	72.00	0.00	0.00	0.00
22.00	0.65	0.65	0.65	73.00	0.00	0.00	0.00
23.00	0.59	0.59	0.59	74.00	0.00	0.00	0.00
24.00	0.53	0.53	0.53	75.00	0.00	0.00	0.00
25.00	0.10	0.10	0.10	76.00	0.00	0.00	0.00
26.00	0.02	0.02	0.02	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

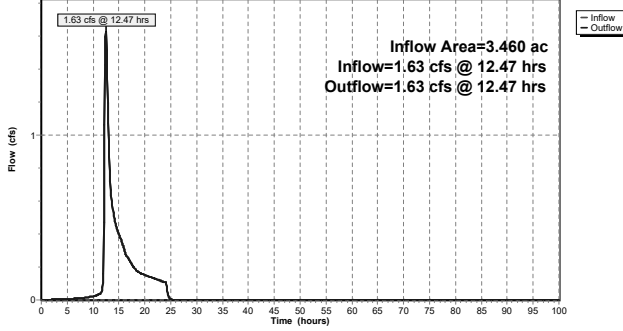
Summary for Reach 38R: P-400

Inflow Area = 3.460 ac, 1.73% Impervious, Inflow Depth = 1.20" for 100-Year event
 Inflow = 1.63 cfs @ 12.47 hrs, Volume= 0.346 af
 Outflow = 1.63 cfs @ 12.47 hrs, Volume= 0.346 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 38R: P-400

Hydrograph



Hydrograph for Reach 38R: P-400

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.01		0.01	55.00	0.00		0.00
5.00	0.01		0.01	56.00	0.00		0.00
6.00	0.01		0.01	57.00	0.00		0.00
7.00	0.01		0.01	58.00	0.00		0.00
8.00	0.01		0.01	59.00	0.00		0.00
9.00	0.02		0.02	60.00	0.00		0.00
10.00	0.02		0.02	61.00	0.00		0.00
11.00	0.03		0.03	62.00	0.00		0.00
12.00	0.16		0.16	63.00	0.00		0.00
13.00	0.97		0.97	64.00	0.00		0.00
14.00	0.51		0.51	65.00	0.00		0.00
15.00	0.40		0.40	66.00	0.00		0.00
16.00	0.31		0.31	67.00	0.00		0.00
17.00	0.24		0.24	68.00	0.00		0.00
18.00	0.19		0.19	69.00	0.00		0.00
19.00	0.17		0.17	70.00	0.00		0.00
20.00	0.15		0.15	71.00	0.00		0.00
21.00	0.14		0.14	72.00	0.00		0.00
22.00	0.13		0.13	73.00	0.00		0.00
23.00	0.12		0.12	74.00	0.00		0.00
24.00	0.11		0.11	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

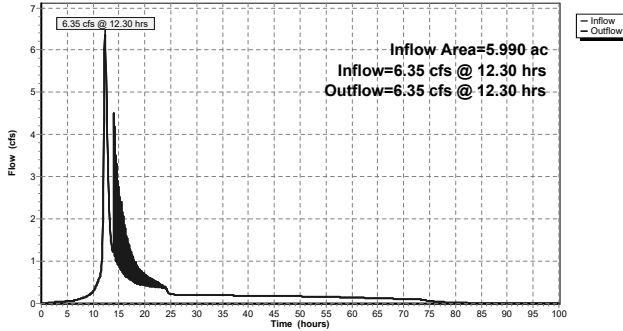
Summary for Reach 39R: P-POA "A"

Inflow Area = 5.990 ac, 17.36% Impervious, Inflow Depth = 4.30" for 100-Year event
 Inflow = 6.35 cfs @ 12.30 hrs, Volume= 2.147 af
 Outflow = 6.35 cfs @ 12.30 hrs, Volume= 2.147 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 39R: P-POA "A"

Hydrograph



Hydrograph for Reach 39R: P-POA "A"

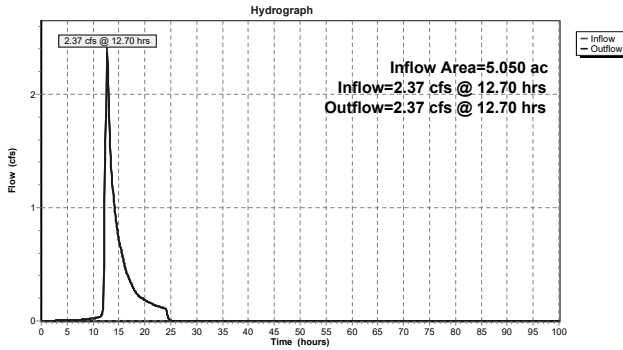
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.17		0.17
1.00	0.01		0.01	52.00	0.17		0.17
2.00	0.02		0.02	53.00	0.17		0.17
3.00	0.03		0.03	54.00	0.16		0.16
4.00	0.04		0.04	55.00	0.16		0.16
5.00	0.05		0.05	56.00	0.16		0.16
6.00	0.06		0.06	57.00	0.15		0.15
7.00	0.09		0.09	58.00	0.15		0.15
8.00	0.13		0.13	59.00	0.14		0.14
9.00	0.18		0.18	60.00	0.14		0.14
10.00	0.29		0.29	61.00	0.14		0.14
11.00	0.53		0.53	62.00	0.13		0.13
12.00	2.76		2.76	63.00	0.13		0.13
13.00	2.56		2.56	64.00	0.12		0.12
14.00	4.52		4.52	65.00	0.12		0.12
15.00	2.77		2.77	66.00	0.12		0.12
16.00	1.87		1.87	67.00	0.11		0.11
17.00	1.38		1.38	68.00	0.11		0.11
18.00	1.01		1.01	69.00	0.11		0.11
19.00	0.81		0.81	70.00	0.10		0.10
20.00	0.68		0.68	71.00	0.10		0.10
21.00	0.61		0.61	72.00	0.10		0.10
22.00	0.53		0.53	73.00	0.09		0.09
23.00	0.46		0.46	74.00	0.08		0.08
24.00	0.39		0.39	75.00	0.06		0.06
25.00	0.22		0.22	76.00	0.05		0.05
26.00	0.21		0.21	77.00	0.04		0.04
27.00	0.21		0.21	78.00	0.03		0.03
28.00	0.21		0.21	79.00	0.02		0.02
29.00	0.20		0.20	80.00	0.02		0.02
30.00	0.20		0.20	81.00	0.01		0.01
31.00	0.20		0.20	82.00	0.01		0.01
32.00	0.20		0.20	83.00	0.01		0.01
33.00	0.20		0.20	84.00	0.01		0.01
34.00	0.20		0.20	85.00	0.01		0.01
35.00	0.19		0.19	86.00	0.00		0.00
36.00	0.19		0.19	87.00	0.00		0.00
37.00	0.19		0.19	88.00	0.00		0.00
38.00	0.19		0.19	89.00	0.00		0.00
39.00	0.19		0.19	90.00	0.00		0.00
40.00	0.19		0.19	91.00	0.00		0.00
41.00	0.18		0.18	92.00	0.00		0.00
42.00	0.18		0.18	93.00	0.00		0.00
43.00	0.18		0.18	94.00	0.00		0.00
44.00	0.18		0.18	95.00	0.00		0.00
45.00	0.18		0.18	96.00	0.00		0.00
46.00	0.18		0.18	97.00	0.00		0.00
47.00	0.18		0.18	98.00	0.00		0.00
48.00	0.17		0.17	99.00	0.00		0.00
49.00	0.17		0.17	100.00	0.00		0.00
50.00	0.17		0.17				

Summary for Reach 40R: P-POA "B"

Inflow Area = 5.050 ac, 1.98% Impervious, Inflow Depth = 1.27" for 100-Year event
 Inflow = 2.37 cfs @ 12.70 hrs, Volume= 0.535 af
 Outflow = 2.37 cfs @ 12.70 hrs, Volume= 0.535 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 40R: P-POA "B"



Hydrograph for Reach 40R: P-POA "B"

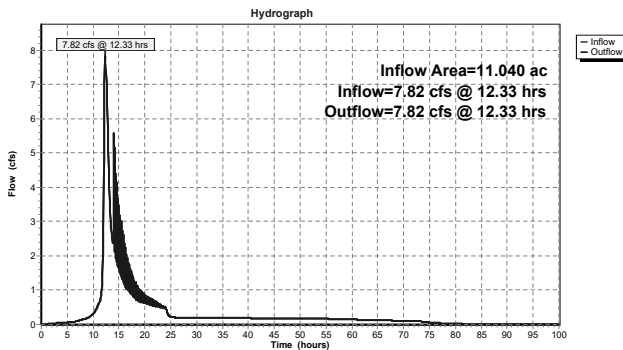
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.01		0.01	55.00	0.00		0.00
5.00	0.01		0.01	56.00	0.00		0.00
6.00	0.01		0.01	57.00	0.00		0.00
7.00	0.01		0.01	58.00	0.00		0.00
8.00	0.01		0.01	59.00	0.00		0.00
9.00	0.02		0.02	60.00	0.00		0.00
10.00	0.02		0.02	61.00	0.00		0.00
11.00	0.03		0.03	62.00	0.00		0.00
12.00	0.16		0.16	63.00	0.00		0.00
13.00	1.95		1.95	64.00	0.00		0.00
14.00	1.05		1.05	65.00	0.00		0.00
15.00	0.72		0.72	66.00	0.00		0.00
16.00	0.51		0.51	67.00	0.00		0.00
17.00	0.37		0.37	68.00	0.00		0.00
18.00	0.27		0.27	69.00	0.00		0.00
19.00	0.21		0.21	70.00	0.00		0.00
20.00	0.18		0.18	71.00	0.00		0.00
21.00	0.16		0.16	72.00	0.00		0.00
22.00	0.14		0.14	73.00	0.00		0.00
23.00	0.12		0.12	74.00	0.00		0.00
24.00	0.11		0.11	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 41R: P-POA

Inflow Area = 11.040 ac, 10.33% Impervious, Inflow Depth = 2.92" for 100-Year event
 Inflow = 7.82 cfs @ 12.33 hrs, Volume= 2.683 af
 Outflow = 7.82 cfs @ 12.33 hrs, Volume= 2.683 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 41R: P-POA



Hydrograph for Reach 41R: P-POA

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.17		0.17
1.00	0.01		0.01	52.00	0.17		0.17
2.00	0.03		0.03	53.00	0.17		0.17
3.00	0.04		0.04	54.00	0.16		0.16
4.00	0.05		0.05	55.00	0.16		0.16
5.00	0.06		0.06	56.00	0.16		0.16
6.00	0.07		0.07	57.00	0.15		0.15
7.00	0.10		0.10	58.00	0.15		0.15
8.00	0.14		0.14	59.00	0.14		0.14
9.00	0.20		0.20	60.00	0.14		0.14
10.00	0.32		0.32	61.00	0.14		0.14
11.00	0.56		0.56	62.00	0.13		0.13
12.00	2.92		2.92	63.00	0.13		0.13
13.00	4.51		4.51	64.00	0.12		0.12
14.00	5.57		5.57	65.00	0.12		0.12
15.00	3.49		3.49	66.00	0.12		0.12
16.00	2.37		2.37	67.00	0.11		0.11
17.00	1.74		1.74	68.00	0.11		0.11
18.00	1.29		1.29	69.00	0.11		0.11
19.00	1.02		1.02	70.00	0.10		0.10
20.00	0.87		0.87	71.00	0.10		0.10
21.00	0.77		0.77	72.00	0.10		0.10
22.00	0.67		0.67	73.00	0.09		0.09
23.00	0.59		0.59	74.00	0.08		0.08
24.00	0.50		0.50	75.00	0.08		0.08
25.00	0.22		0.22	76.00	0.05		0.05
26.00	0.21		0.21	77.00	0.04		0.04
27.00	0.21		0.21	78.00	0.03		0.03
28.00	0.21		0.21	79.00	0.02		0.02
29.00	0.20		0.20	80.00	0.02		0.02
30.00	0.20		0.20	81.00	0.01		0.01
31.00	0.20		0.20	82.00	0.01		0.01
32.00	0.20		0.20	83.00	0.01		0.01
33.00	0.20		0.20	84.00	0.01		0.01
34.00	0.20		0.20	85.00	0.01		0.01
35.00	0.19		0.19	86.00	0.00		0.00
36.00	0.19		0.19	87.00	0.00		0.00
37.00	0.19		0.19	88.00	0.00		0.00
38.00	0.19		0.19	89.00	0.00		0.00
39.00	0.19		0.19	90.00	0.00		0.00
40.00	0.19		0.19	91.00	0.00		0.00
41.00	0.18		0.18	92.00	0.00		0.00
42.00	0.18		0.18	93.00	0.00		0.00
43.00	0.18		0.18	94.00	0.00		0.00
44.00	0.18		0.18	95.00	0.00		0.00
45.00	0.18		0.18	96.00	0.00		0.00
46.00	0.18		0.18	97.00	0.00		0.00
47.00	0.18		0.18	98.00	0.00		0.00
48.00	0.17		0.17	99.00	0.00		0.00
49.00	0.17		0.17	100.00	0.00		0.00
50.00	0.17		0.17				

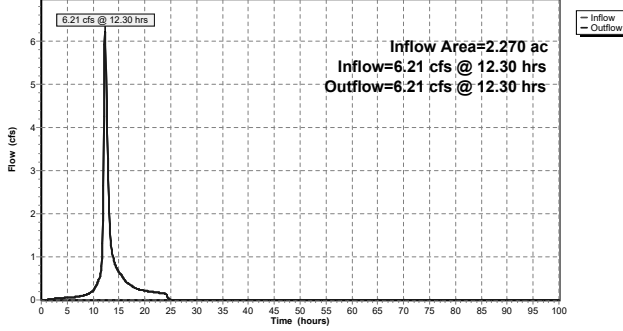
Summary for Reach 46R: P-100

Inflow Area = 2.270 ac, 22.47% Impervious, Inflow Depth = 4.83" for 100-Year event
 Inflow = 6.21 cfs @ 12.30 hrs, Volume= 0.913 af
 Outflow = 6.21 cfs @ 12.30 hrs, Volume= 0.913 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 46R: P-100

Hydrograph



Hydrograph for Reach 46R: P-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.01	0.01	0.01	52.00	0.00	0.00	0.00
2.00	0.02	0.02	0.02	53.00	0.00	0.00	0.00
3.00	0.03	0.03	0.03	54.00	0.00	0.00	0.00
4.00	0.04	0.04	0.04	55.00	0.00	0.00	0.00
5.00	0.05	0.05	0.05	56.00	0.00	0.00	0.00
6.00	0.06	0.06	0.06	57.00	0.00	0.00	0.00
7.00	0.08	0.08	0.08	58.00	0.00	0.00	0.00
8.00	0.10	0.10	0.10	59.00	0.00	0.00	0.00
9.00	0.14	0.14	0.14	60.00	0.00	0.00	0.00
10.00	0.22	0.22	0.22	61.00	0.00	0.00	0.00
11.00	0.43	0.43	0.43	62.00	0.00	0.00	0.00
12.00	2.65	2.65	2.65	63.00	0.00	0.00	0.00
13.00	2.38	2.38	2.38	64.00	0.00	0.00	0.00
14.00	0.91	0.91	0.91	65.00	0.00	0.00	0.00
15.00	0.65	0.65	0.65	66.00	0.00	0.00	0.00
16.00	0.48	0.48	0.48	67.00	0.00	0.00	0.00
17.00	0.36	0.36	0.36	68.00	0.00	0.00	0.00
18.00	0.29	0.29	0.29	69.00	0.00	0.00	0.00
19.00	0.24	0.24	0.24	70.00	0.00	0.00	0.00
20.00	0.22	0.22	0.22	71.00	0.00	0.00	0.00
21.00	0.20	0.20	0.20	72.00	0.00	0.00	0.00
22.00	0.18	0.18	0.18	73.00	0.00	0.00	0.00
23.00	0.16	0.16	0.16	74.00	0.00	0.00	0.00
24.00	0.14	0.14	0.14	75.00	0.00	0.00	0.00
25.00	0.01	0.01	0.01	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Pond 43P: P-200 Station 1450 Culvert

Inflow Area = 3.720 ac, 14.25% Impervious, Inflow Depth = 4.06" for 100-Year event
 Inflow = 6.17 cfs @ 12.53 hrs, Volume= 1.259 af
 Outflow = 3.69 cfs @ 14.00 hrs, Volume= 1.245 af, Atten= 40%, Lag= 88.0 min
 Discarded = 0.08 cfs @ 14.00 hrs, Volume= 0.010 af
 Primary = 3.61 cfs @ 14.00 hrs, Volume= 1.235 af

Routing by Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 875.50' @ 14.00 hrs Surf.Area= 27,350 sf Storage= 30,636 cf

Plug-Flow detention time= 1,180.7 min calculated for 1.245 af (99% of inflow)
 Center-of-Mass det. time= 1,173.7 min (2,034.5 - 860.8)

Volume	Invert	Avail.Storage	Storage Description
#1	143.50'	30,636 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.50	4	0	0
145.58	10	15	15
146.00	245	54	68
147.00	3,750	1,998	2,066
148.00	13,020	8,385	10,451
149.00	27,350	20,185	30,636

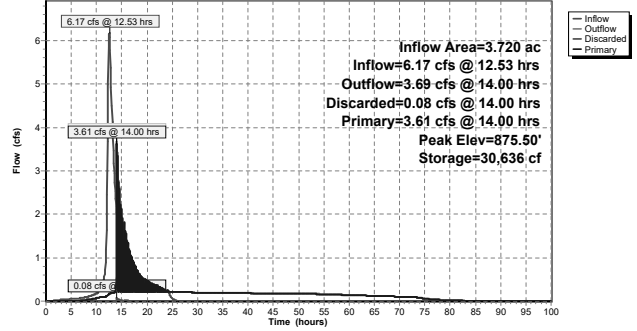
Device	Routing	Invert	Outlet Devices
#1	Discarded	143.50'	1.000 in/hr Exfiltration over Surface area below 145.60' Conductivity to Groundwater Elevation = 140.00'
#2	Primary	146.50'	2.0" x 2.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 2	145.58'	12.0" Round Culvert L= 60.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 145.58' / 145.00' S= 0.0097' / C= 0.900 n= 0.013, Flow Area= 0.79 sf

Discarded OutFlow Max=0.08 cfs @ 14.00 hrs HW=872.37' (Free Discharge)
 1=Exfiltration (Controls 0.08 cfs)

Primary OutFlow Max=3.57 cfs @ 14.00 hrs HW=859.74' (Free Discharge)
 2=Orifice/Grate (Orifice Controls 3.57 cfs @ 128.59 fps)
 3=Culvert (Passes 3.57 cfs of 91.50 cfs potential flow)

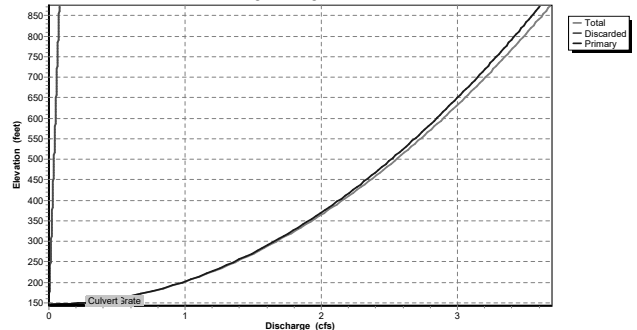
Pond 43P: P-200 Station 1450 Culvert

Hydrograph

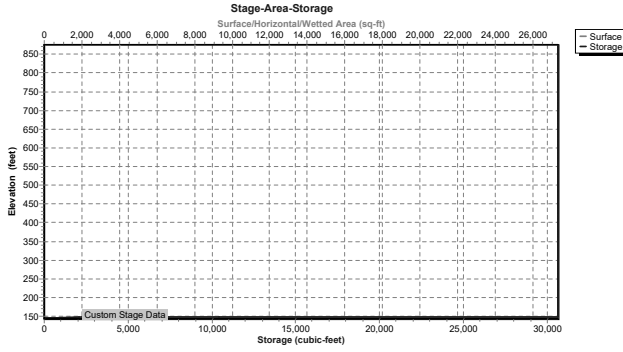


Pond 43P: P-200 Station 1450 Culvert

Stage-Discharge



Pond 43P: P-200 Station 1450 Culvert



Hydrograph for Pond 43P: P-200 Station 1450 Culvert

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	143.50	0.00	0.00	0.00
2.00	0.02	35	145.74	0.00	0.00	0.00
4.00	0.04	250	148.16	0.00	0.00	0.00
6.00	0.06	617	148.49	0.00	0.00	0.00
8.00	0.10	1,059	146.65	0.03	0.00	0.03
10.00	0.18	1,664	146.86	0.07	0.00	0.07
12.00	1.04	4,291	147.27	0.11	0.00	0.11
14.00	2.64	30,636	875.49	3.69	0.08	3.61
16.00	0.82	30,636	254.14	1.40	0.01	1.39
18.00	0.48	30,636	176.09	0.73	0.00	0.73
20.00	0.34	30,636	158.84	0.47	0.00	0.47
22.00	0.28	30,636	153.76	0.35	0.00	0.35
24.00	0.23	30,636	149.87	0.24	0.00	0.24
26.00	0.01	29,738	148.96	0.21	0.00	0.21
28.00	0.00	28,250	148.88	0.21	0.00	0.21
30.00	0.00	26,773	148.81	0.20	0.00	0.20
32.00	0.00	25,322	148.74	0.20	0.00	0.20
34.00	0.00	23,896	148.67	0.20	0.00	0.20
36.00	0.00	22,493	148.60	0.19	0.00	0.19
38.00	0.00	21,114	148.53	0.19	0.00	0.19
40.00	0.00	19,759	148.46	0.19	0.00	0.19
42.00	0.00	18,428	148.40	0.18	0.00	0.18
44.00	0.00	17,116	148.33	0.18	0.00	0.18
46.00	0.00	15,828	148.27	0.18	0.00	0.18
48.00	0.00	14,562	148.20	0.17	0.00	0.17
50.00	0.00	13,317	148.14	0.17	0.00	0.17
52.00	0.00	12,093	148.08	0.17	0.00	0.17
54.00	0.00	10,890	148.02	0.17	0.00	0.16
56.00	0.00	9,717	147.91	0.16	0.00	0.16
58.00	0.00	8,609	147.78	0.15	0.00	0.15
60.00	0.00	7,564	147.66	0.14	0.00	0.14
62.00	0.00	6,580	147.54	0.13	0.00	0.13
64.00	0.00	5,653	147.43	0.12	0.00	0.12
66.00	0.00	4,780	147.32	0.12	0.00	0.12
68.00	0.00	3,957	147.23	0.11	0.00	0.11
70.00	0.00	3,181	147.13	0.10	0.00	0.10
72.00	0.00	2,451	147.05	0.10	0.00	0.10
74.00	0.00	1,789	146.90	0.08	0.00	0.08
76.00	0.00	1,347	146.75	0.05	0.00	0.05
78.00	0.00	1,072	146.65	0.03	0.00	0.03
80.00	0.00	901	146.59	0.02	0.00	0.02
82.00	0.00	794	146.56	0.01	0.00	0.01
84.00	0.00	728	146.53	0.01	0.00	0.01
86.00	0.00	687	146.52	0.00	0.00	0.00
88.00	0.00	661	146.51	0.00	0.00	0.00
90.00	0.00	645	146.51	0.00	0.00	0.00
92.00	0.00	635	146.50	0.00	0.00	0.00
94.00	0.00	629	146.50	0.00	0.00	0.00
96.00	0.00	624	146.50	0.00	0.00	0.00
98.00	0.00	619	146.49	0.00	0.00	0.00
100.00	0.00	614	146.49	0.00	0.00	0.00

Stage-Discharge for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
143.50	0.00	0.00	0.00	518.35	2.62	0.04	2.58
150.85	0.28	0.00	0.28	525.70	2.64	0.04	2.60
158.20	0.46	0.00	0.46	533.05	2.67	0.04	2.63
165.55	0.59	0.00	0.58	540.40	2.70	0.04	2.65
172.90	0.69	0.00	0.69	547.75	2.72	0.04	2.68
180.25	0.78	0.00	0.78	555.10	2.75	0.04	2.70
187.60	0.86	0.00	0.86	562.45	2.77	0.04	2.73
194.95	0.94	0.01	0.93	569.80	2.80	0.04	2.75
202.30	1.01	0.01	1.00	577.15	2.82	0.05	2.78
209.65	1.07	0.01	1.06	584.50	2.85	0.05	2.80
217.00	1.13	0.01	1.12	591.85	2.87	0.05	2.82
224.35	1.19	0.01	1.18	599.20	2.89	0.05	2.85
231.70	1.24	0.01	1.23	606.55	2.92	0.05	2.87
239.05	1.30	0.01	1.29	613.90	2.94	0.05	2.89
246.40	1.35	0.01	1.34	621.25	2.96	0.05	2.91
253.75	1.40	0.01	1.39	628.60	2.99	0.05	2.94
261.10	1.44	0.01	1.43	635.95	3.01	0.05	2.96
268.45	1.49	0.01	1.48	643.30	3.03	0.05	2.98
275.80	1.53	0.01	1.52	650.65	3.06	0.05	3.00
283.15	1.58	0.01	1.56	658.00	3.08	0.05	3.02
290.50	1.62	0.02	1.60	665.35	3.10	0.05	3.05
297.85	1.66	0.02	1.65	672.70	3.12	0.06	3.07
305.20	1.70	0.02	1.68	680.05	3.15	0.06	3.09
312.55	1.74	0.02	1.72	687.40	3.17	0.06	3.11
319.90	1.78	0.02	1.76	694.75	3.19	0.06	3.13
327.25	1.82	0.02	1.80	702.10	3.21	0.06	3.15
334.60	1.85	0.02	1.83	709.45	3.23	0.06	3.17
341.95	1.89	0.02	1.87	716.80	3.25	0.06	3.19
349.30	1.93	0.02	1.90	724.15	3.28	0.06	3.21
356.65	1.96	0.02	1.94	731.50	3.30	0.06	3.23
364.00	2.00	0.02	1.97	738.85	3.32	0.06	3.26
371.35	2.03	0.02	2.01	746.20	3.34	0.06	3.28
378.70	2.06	0.02	2.04	753.55	3.36	0.06	3.30
386.05	2.10	0.03	2.07	760.90	3.38	0.06	3.32
393.40	2.13	0.03	2.10	768.25	3.40	0.07	3.34
400.75	2.16	0.03	2.13	775.60	3.42	0.07	3.35
408.10	2.19	0.03	2.16	782.95	3.44	0.07	3.37
415.45	2.22	0.03	2.19	790.30	3.46	0.07	3.39
422.80	2.25	0.03	2.22	797.65	3.48	0.07	3.41
430.15	2.28	0.03	2.25	805.00	3.50	0.07	3.43
437.50	2.31	0.03	2.28	812.35	3.52	0.07	3.45
444.85	2.34	0.03	2.31	819.70	3.54	0.07	3.47
452.20	2.37	0.03	2.34	827.05	3.56	0.07	3.49
459.55	2.40	0.03	2.37	834.40	3.58	0.07	3.51
466.90	2.43	0.03	2.39	841.75	3.60	0.07	3.53
474.25	2.46	0.03	2.42	849.10	3.62	0.07	3.55
481.60	2.48	0.04	2.45	856.45	3.64	0.07	3.56
488.95	2.51	0.04	2.48	863.80	3.66	0.08	3.58
496.30	2.54	0.04	2.50	871.15	3.68	0.08	3.60
503.65	2.57	0.04	2.53				
511.00	2.59	0.04	2.55				

Stage-Area-Storage for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
143.50	4	0	518.35	27,350	30,636
150.85	27,350	30,636	525.70	27,350	30,636
158.20	27,350	30,636	533.05	27,350	30,636
165.55	27,350	30,636	540.40	27,350	30,636
172.90	27,350	30,636	547.75	27,350	30,636
180.25	27,350	30,636	555.10	27,350	30,636
187.60	27,350	30,636	562.45	27,350	30,636
194.95	27,350	30,636	569.80	27,350	30,636
202.30	27,350	30,636	577.15	27,350	30,636
209.65	27,350	30,636	584.50	27,350	30,636
217.00	27,350	30,636	591.85	27,350	30,636
224.35	27,350	30,636	599.20	27,350	30,636
231.70	27,350	30,636	606.55	27,350	30,636
239.05	27,350	30,636	613.90	27,350	30,636
246.40	27,350	30,636	621.25	27,350	30,636
253.75	27,350	30,636	628.60	27,350	30,636
261.10	27,350	30,636	635.95	27,350	30,636
268.45	27,350	30,636	643.30	27,350	30,636
275.80	27,350	30,636	650.65	27,350	30,636
283.15	27,350	30,636	658.00	27,350	30,636
290.50	27,350	30,636	665.35	27,350	30,636
297.85	27,350	30,636	672.70	27,350	30,636
305.20	27,350	30,636	680.05	27,350	30,636
312.55	27,350	30,636	687.40	27,350	30,636
319.90	27,350	30,636	694.75	27,350	30,636
327.25	27,350	30,636	702.10	27,350	30,636
334.60	27,350	30,636	709.45	27,350	30,636
341.95	27,350	30,636	716.80	27,350	30,636
349.30	27,350	30,636	724.15	27,350	30,636
356.65	27,350	30,636	731.50	27,350	30,636
364.00	27,350	30,636	738.85	27,350	30,636
371.35	27,350	30,636	746.20	27,350	30,636
378.70	27,350	30,636	753.55	27,350	30,636
386.05	27,350	30,636	760.90	27,350	30,636
393.40	27,350	30,636	768.25	27,350	30,636
400.75	27,350	30,636	775.60	27,350	30,636
408.10	27,350	30,636	782.95	27,350	30,636
415.45	27,350	30,636	790.30	27,350	30,636
422.80	27,350	30,636	797.65	27,350	30,636
430.15	27,350	30,636	805.00	27,350	30,636
437.50	27,350	30,636	812.35	27,350	30,636
444.85	27,350	30,636	819.70	27,350	30,636
452.20	27,350	30,636	827.05	27,350	30,636
459.55	27,350	30,636	834.40	27,350	

Summary for Pond 44P: P-300 Rainwater Garden

Inflow Area = 1,590 ac, 2.52% Impervious, Inflow Depth = 2.27" for 100-Year event
 Inflow = 1.15 cfs @ 12.72 hrs, Volume= 0.301 af
 Outflow = 1.14 cfs @ 12.80 hrs, Volume= 0.301 af, Atten= 1%, Lag= 5.0 min
 Discarded = 0.09 cfs @ 12.80 hrs, Volume= 0.112 af
 Primary = 1.05 cfs @ 12.80 hrs, Volume= 0.189 af

Routing by Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 147.29' @ 12.80 hrs Surf.Area= 3,750 sf Storage= 1,044 cf

Plug-Flow detention time= 45.1 min calculated for 0.30 af (100% of inflow)
 Center-of-Mass det. time= 45.1 min (966.8 - 921.7)

Volume	Invert	Avail.Storage	Storage Description
#1	147.00'	8,800 cf	Custom Stage Data (Prismatic), Listed below (Recalc)

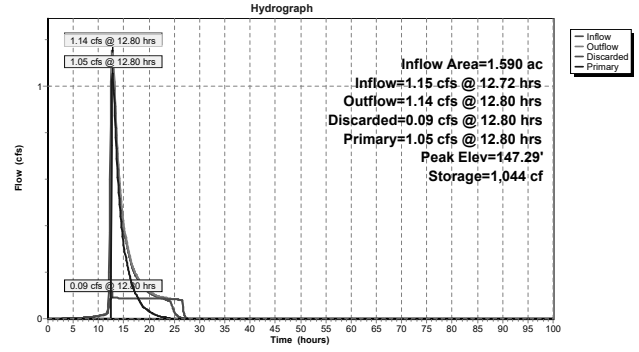
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.00	3,400	0	0
148.00	4,600	4,000	4,000
149.00	5,000	4,800	8,800

Device	Routing	Invert	Outlet Devices
#1	Discarded	147.00'	1,000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 140.00'
#2	Primary	147.16'	Asymmetrical Weir, C= 3.27 Offset (feet) 1,100.00 1,150.00 1,200.00 1,255.00 Elev. (feet) 148.00 147.16 147.91 148.00

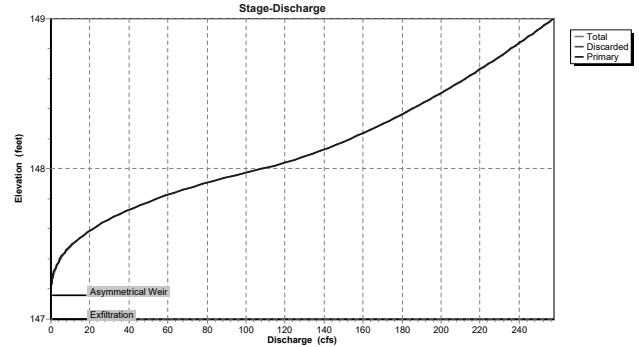
Discarded OutFlow Max=0.09 cfs @ 12.80 hrs HW=147.29' (Free Discharge)
 1=Exfiltration (Controls 0.09 cfs)

Primary OutFlow Max=1.04 cfs @ 12.80 hrs HW=147.29' (Free Discharge)
 2=Asymmetrical Weir (Weir Controls 1.04 cfs @ 0.48 fps)

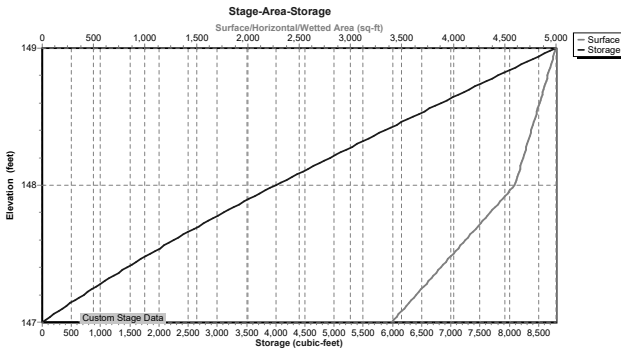
Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Hydrograph for Pond 44P: P-300 Rainwater Garden

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	147.00	0.00	0.00	0.00
2.00	0.00	1	147.00	0.00	0.00	0.00
4.00	0.00	2	147.00	0.00	0.00	0.00
6.00	0.00	4	147.00	0.00	0.00	0.00
8.00	0.01	6	147.00	0.01	0.01	0.00
10.00	0.01	10	147.00	0.01	0.01	0.00
12.00	0.11	45	147.01	0.05	0.05	0.00
14.00	0.61	930	147.26	0.63	0.09	0.54
16.00	0.28	804	147.23	0.29	0.09	0.20
18.00	0.16	725	147.21	0.17	0.09	0.08
20.00	0.11	670	147.19	0.12	0.09	0.03
22.00	0.09	633	147.18	0.10	0.09	0.01
24.00	0.08	576	147.16	0.09	0.09	0.00
26.00	0.01	229	147.07	0.08	0.08	0.00
28.00	0.00	0	147.00	0.00	0.00	0.00
30.00	0.00	0	147.00	0.00	0.00	0.00
32.00	0.00	0	147.00	0.00	0.00	0.00
34.00	0.00	0	147.00	0.00	0.00	0.00
36.00	0.00	0	147.00	0.00	0.00	0.00
38.00	0.00	0	147.00	0.00	0.00	0.00
40.00	0.00	0	147.00	0.00	0.00	0.00
42.00	0.00	0	147.00	0.00	0.00	0.00
44.00	0.00	0	147.00	0.00	0.00	0.00
46.00	0.00	0	147.00	0.00	0.00	0.00
48.00	0.00	0	147.00	0.00	0.00	0.00
50.00	0.00	0	147.00	0.00	0.00	0.00
52.00	0.00	0	147.00	0.00	0.00	0.00
54.00	0.00	0	147.00	0.00	0.00	0.00
56.00	0.00	0	147.00	0.00	0.00	0.00
58.00	0.00	0	147.00	0.00	0.00	0.00
60.00	0.00	0	147.00	0.00	0.00	0.00
62.00	0.00	0	147.00	0.00	0.00	0.00
64.00	0.00	0	147.00	0.00	0.00	0.00
66.00	0.00	0	147.00	0.00	0.00	0.00
68.00	0.00	0	147.00	0.00	0.00	0.00
70.00	0.00	0	147.00	0.00	0.00	0.00
72.00	0.00	0	147.00	0.00	0.00	0.00
74.00	0.00	0	147.00	0.00	0.00	0.00
76.00	0.00	0	147.00	0.00	0.00	0.00
78.00	0.00	0	147.00	0.00	0.00	0.00
80.00	0.00	0	147.00	0.00	0.00	0.00
82.00	0.00	0	147.00	0.00	0.00	0.00
84.00	0.00	0	147.00	0.00	0.00	0.00
86.00	0.00	0	147.00	0.00	0.00	0.00
88.00	0.00	0	147.00	0.00	0.00	0.00
90.00	0.00	0	147.00	0.00	0.00	0.00
92.00	0.00	0	147.00	0.00	0.00	0.00
94.00	0.00	0	147.00	0.00	0.00	0.00
96.00	0.00	0	147.00	0.00	0.00	0.00
98.00	0.00	0	147.00	0.00	0.00	0.00
100.00	0.00	0	147.00	0.00	0.00	0.00

Stage-Discharge for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
147.00	0.00	0.00	0.00	148.02	114.70	0.12	114.58
147.02	0.08	0.08	0.00	148.04	120.03	0.12	119.91
147.04	0.08	0.08	0.00	148.06	124.94	0.12	124.82
147.06	0.08	0.08	0.00	148.08	129.55	0.12	129.43
147.08	0.08	0.08	0.00	148.10	133.93	0.12	133.81
147.10	0.08	0.08	0.00	148.12	138.11	0.12	137.99
147.12	0.08	0.08	0.00	148.14	142.13	0.12	142.01
147.14	0.08	0.08	0.00	148.16	146.01	0.12	145.89
147.16	0.08	0.08	0.00	148.18	149.77	0.12	149.64
147.18	0.10	0.09	0.01	148.20	153.41	0.12	153.29
147.20	0.14	0.09	0.05	148.22	156.95	0.12	156.83
147.22	0.23	0.09	0.15	148.24	160.40	0.13	160.28
147.24	0.39	0.09	0.30	148.26	163.77	0.13	163.65
147.26	0.61	0.09	0.52	148.28	167.06	0.13	166.93
147.28	0.91	0.09	0.82	148.30	170.28	0.13	170.15
147.30	1.30	0.09	1.21	148.32	173.43	0.13	173.30
147.32	1.78	0.09	1.69	148.34	176.51	0.13	176.39
147.34	2.36	0.09	2.27	148.36	179.54	0.13	179.41
147.36	3.05	0.09	2.95	148.38	182.52	0.13	182.39
147.38	3.84	0.09	3.75	148.40	185.44	0.13	185.31
147.40	4.75	0.09	4.66	148.42	188.31	0.13	188.18
147.42	5.78	0.10	5.69	148.44	191.14	0.13	191.01
147.44	6.94	0.10	6.85	148.46	193.92	0.13	193.79
147.46	8.23	0.10	8.14	148.48	196.66	0.13	196.53
147.48	9.66	0.10	9.56	148.50	199.36	0.13	199.23
147.50	11.22	0.10	11.13	148.52	202.02	0.13	201.89
147.52	12.93	0.10	12.83	148.54	204.64	0.13	204.51
147.54	14.79	0.10	14.69	148.56	207.23	0.13	207.10
147.56	16.80	0.10	16.70	148.58	209.79	0.13	209.65
147.58	18.97	0.10	18.87	148.60	212.31	0.13	212.18
147.60	21.30	0.10	21.20	148.62	214.80	0.13	214.67
147.62	23.79	0.10	23.69	148.64	217.27	0.14	217.13
147.64	26.45	0.10	26.35	148.66	219.70	0.14	219.56
147.66	29.28	0.11	29.18	148.68	222.10	0.14	221.97
147.68	32.29	0.11	32.18	148.70	224.48	0.14	224.35
147.70	35.48	0.11	35.37	148.72	226.84	0.14	226.70
147.72	38.84	0.11	38.74	148.74	229.16	0.14	229.03
147.74	42.40	0.11	42.29	148.76	231.47	0.14	231.33
147.76	46.14	0.11	46.03	148.78	233.75	0.14	233.61
147.78	50.07	0.11	49.96	148.80	236.00	0.14	235.86
147.80	54.20	0.11	54.09	148.82	238.24	0.14	238.10
147.82	58.52	0.11	58.41	148.84	240.45	0.14	240.31
147.84	63.05	0.11	62.94	148.86	242.65	0.14	242.51
147.86	67.78	0.11	67.67	148.88	244.82	0.14	244.68
147.88	72.72	0.11	72.60	148.90	246.97	0.14	246.83
147.90	77.87	0.12	77.75	148.92	249.11	0.14	248.96
147.92	83.24	0.12	83.12	148.94	251.22	0.14	251.08
147.94	88.92	0.12	88.80	148.96	253.32	0.14	253.17
147.96	95.00	0.12	94.88	148.98	255.40	0.14	255.25
147.98	101.54	0.12	101.42	149.00	257.46	0.14	257.32
148.00	108.59	0.12	108.47				

Stage-Area-Storage for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.00	3,400	0	148.02	4,608	4,092
147.02	3,424	88	148.04	4,616	4,184
147.04	3,448	137	148.06	4,624	4,277
147.06	3,472	206	148.08	4,632	4,369
147.08	3,496	276	148.10	4,640	4,462
147.10	3,520	346	148.12	4,648	4,555
147.12	3,544	417	148.14	4,656	4,648
147.14	3,568	488	148.16	4,664	4,741
147.16	3,592	559	148.18	4,672	4,834
147.18	3,616	631	148.20	4,680	4,928
147.20	3,640	704	148.22	4,688	5,022
147.22	3,664	777	148.24	4,696	5,116
147.24	3,688	851	148.26	4,704	5,210
147.26	3,712	925	148.28	4,712	5,304
147.28	3,736	999	148.30	4,720	5,398
147.30	3,760	1,074	148.32	4,728	5,492
147.32	3,784	1,149	148.34	4,736	5,587
147.34	3,808	1,225	148.36	4,744	5,682
147.36	3,832	1,302	148.38	4,752	5,777
147.38	3,856	1,379	148.40	4,760	5,872
147.40	3,880	1,456	148.42	4,768	5,967
147.42	3,904	1,534	148.44	4,776	6,063
147.44	3,928	1,612	148.46	4,784	6,158
147.46	3,952	1,691	148.48	4,792	6,254
147.48	3,976	1,770	148.50	4,800	6,350
147.50	4,000	1,850	148.52	4,808	6,446
147.52	4,024	1,930	148.54	4,816	6,542
147.54	4,048	2,011	148.56	4,824	6,639
147.56	4,072	2,092	148.58	4,832	6,735
147.58	4,096	2,174	148.60	4,840	6,832
147.60	4,120	2,256	148.62	4,848	6,929
147.62	4,144	2,339	148.64	4,856	7,026
147.64	4,168	2,422	148.66	4,864	7,123
147.66	4,192	2,505	148.68	4,872	7,220
147.68	4,216	2,589	148.70	4,880	7,318
147.70	4,240	2,674	148.72	4,888	7,416
147.72	4,264	2,759	148.74	4,896	7,514
147.74	4,288	2,845	148.76	4,904	7,612
147.76	4,312	2,931	148.78	4,912	7,710
147.78	4,336	3,017	148.80	4,920	7,808
147.80	4,360	3,104	148.82	4,928	7,906
147.82	4,384	3,191	148.84	4,936	8,005
147.84	4,408	3,279	148.86	4,944	8,104
147.86	4,432	3,368	148.88	4,952	8,203
147.88	4,456	3,457	148.90	4,960	8,302
147.90	4,480	3,546	148.92	4,968	8,401
147.92	4,504	3,636	148.94	4,976	8,501
147.94	4,528	3,726	148.96	4,984	8,600
147.96	4,552	3,817	148.98	4,992	8,700
147.98	4,576	3,908	149.00	5,000	8,800
148.00	4,600	4,000			

Time span=0.00-100.00 hrs, dt=0.10 hrs, 1001 points
 Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: E-100 PERV	Runoff Area=2.270 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=610' Tc=16.5 min CN=60 Runoff=0.00 cfs 0.000 af
Subcatchment2S: E-200 PERV	Runoff Area=3.720 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=373' Tc=31.5 min CN=57 Runoff=0.00 cfs 0.000 af
Subcatchment3S: E-300 PERV	Runoff Area=1.590 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=300' Slope=0.0100 1/1 Tc=40.2 min CN=46 Runoff=0.00 cfs 0.000 af
Subcatchment4S: E-400 PERV	Runoff Area=3.460 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=150' Slope=0.0250 1/1 Tc=15.9 min CN=36 Runoff=0.00 cfs 0.000 af
Subcatchment45S: P-100 PERV	Runoff Area=1.760 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=610' Tc=16.5 min CN=61 Runoff=0.00 cfs 0.000 af
Subcatchment46S: P-200 PERV	Runoff Area=3.190 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=373' Tc=31.5 min CN=57 Runoff=0.00 cfs 0.000 af
Subcatchment47S: P-300 PERV	Runoff Area=1.550 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=300' Slope=0.0100 1/1 Tc=40.2 min CN=46 Runoff=0.00 cfs 0.000 af
Subcatchment48S: P-400 PERV	Runoff Area=3.400 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=150' Slope=0.0250 1/1 Tc=15.9 min CN=36 Runoff=0.00 cfs 0.000 af
Subcatchment49S: P-100 IMP	Runoff Area=0.510 ac 100.00% Impervious Runoff Depth=1.03" Flow Length=610' Tc=16.5 min CN=98 Runoff=0.70 cfs 0.044 af
Subcatchment50S: P-200 IMP	Runoff Area=0.530 ac 100.00% Impervious Runoff Depth=1.03" Flow Length=373' Tc=31.5 min CN=98 Runoff=0.47 cfs 0.046 af
Subcatchment51S: P-300 IMP	Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=1.03" Flow Length=300' Slope=0.0100 1/1 Tc=40.2 min CN=98 Runoff=0.03 cfs 0.003 af
Subcatchment52S: P-400 IMP	Runoff Area=0.060 ac 100.00% Impervious Runoff Depth=1.03" Flow Length=150' Slope=0.0250 1/1 Tc=15.9 min CN=98 Runoff=0.08 cfs 0.005 af

Reach 6R: E-100	Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Reach 7R: E-200	Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Reach 8R: E-300	Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Reach 22R: E-400	Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Reach 23R: E-POA "A"	Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Reach 25R: E-POA "B"	Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Reach 26R: E-POA	Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Reach 38R: P-400	Inflow=0.08 cfs 0.005 af Outflow=0.08 cfs 0.005 af
Reach 39R: P-POA "A"	Inflow=0.70 cfs 0.075 af Outflow=0.70 cfs 0.075 af
Reach 40R: P-POA "B"	Inflow=0.08 cfs 0.005 af Outflow=0.08 cfs 0.005 af
Reach 41R: P-POA	Inflow=0.78 cfs 0.080 af Outflow=0.78 cfs 0.080 af
Reach 46R: P-100	Inflow=0.70 cfs 0.044 af Outflow=0.70 cfs 0.044 af
Pond 43P: P-200 Station 1450 Culvert	Peak Elev=146.84' Storage=1,524 cf Inflow=0.47 cfs 0.046 af Discarded=0.00 cfs 0.006 af Primary=0.08 cfs 0.031 af Outflow=0.08 cfs 0.036 af
Pond 44P: P-300 Rainwater Garden	Peak Elev=147.01' Storage=22 cf Inflow=0.03 cfs 0.003 af Discarded=0.03 cfs 0.003 af Primary=0.00 cfs 0.000 af Outflow=0.03 cfs 0.003 af
Total Runoff Area = 22.800 ac Runoff Volume = 0.098 af Average Runoff Depth = 0.05" 94.84% Pervious = 20.940 ac 5.16% Impervious = 1.140 ac	

Summary for Subcatchment 1S: E-100 PERV

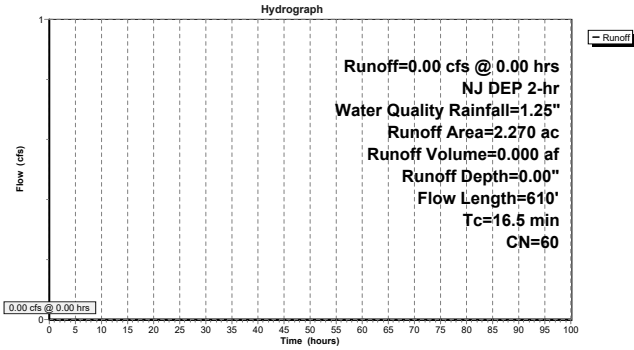
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
0.420	55	Woods, Good, HSG B
1.850	61	>75% Grass cover, Good, HSG B
2.270	60	Weighted Average
2.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 1S: E-100 PERV



Hydrograph for Subcatchment 1S: E-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	0.00	0.00
1.00	0.63	0.00	0.00	52.00	1.25	0.00	0.00
2.00	1.25	0.00	0.00	53.00	1.25	0.00	0.00
3.00	1.25	0.00	0.00	54.00	1.25	0.00	0.00
4.00	1.25	0.00	0.00	55.00	1.25	0.00	0.00
5.00	1.25	0.00	0.00	56.00	1.25	0.00	0.00
6.00	1.25	0.00	0.00	57.00	1.25	0.00	0.00
7.00	1.25	0.00	0.00	58.00	1.25	0.00	0.00
8.00	1.25	0.00	0.00	59.00	1.25	0.00	0.00
9.00	1.25	0.00	0.00	60.00	1.25	0.00	0.00
10.00	1.25	0.00	0.00	61.00	1.25	0.00	0.00
11.00	1.25	0.00	0.00	62.00	1.25	0.00	0.00
12.00	1.25	0.00	0.00	63.00	1.25	0.00	0.00
13.00	1.25	0.00	0.00	64.00	1.25	0.00	0.00
14.00	1.25	0.00	0.00	65.00	1.25	0.00	0.00
15.00	1.25	0.00	0.00	66.00	1.25	0.00	0.00
16.00	1.25	0.00	0.00	67.00	1.25	0.00	0.00
17.00	1.25	0.00	0.00	68.00	1.25	0.00	0.00
18.00	1.25	0.00	0.00	69.00	1.25	0.00	0.00
19.00	1.25	0.00	0.00	70.00	1.25	0.00	0.00
20.00	1.25	0.00	0.00	71.00	1.25	0.00	0.00
21.00	1.25	0.00	0.00	72.00	1.25	0.00	0.00
22.00	1.25	0.00	0.00	73.00	1.25	0.00	0.00
23.00	1.25	0.00	0.00	74.00	1.25	0.00	0.00
24.00	1.25	0.00	0.00	75.00	1.25	0.00	0.00
25.00	1.25	0.00	0.00	76.00	1.25	0.00	0.00
26.00	1.25	0.00	0.00	77.00	1.25	0.00	0.00
27.00	1.25	0.00	0.00	78.00	1.25	0.00	0.00
28.00	1.25	0.00	0.00	79.00	1.25	0.00	0.00
29.00	1.25	0.00	0.00	80.00	1.25	0.00	0.00
30.00	1.25	0.00	0.00	81.00	1.25	0.00	0.00
31.00	1.25	0.00	0.00	82.00	1.25	0.00	0.00
32.00	1.25	0.00	0.00	83.00	1.25	0.00	0.00
33.00	1.25	0.00	0.00	84.00	1.25	0.00	0.00
34.00	1.25	0.00	0.00	85.00	1.25	0.00	0.00
35.00	1.25	0.00	0.00	86.00	1.25	0.00	0.00
36.00	1.25	0.00	0.00	87.00	1.25	0.00	0.00
37.00	1.25	0.00	0.00	88.00	1.25	0.00	0.00
38.00	1.25	0.00	0.00	89.00	1.25	0.00	0.00
39.00	1.25	0.00	0.00	90.00	1.25	0.00	0.00
40.00	1.25	0.00	0.00	91.00	1.25	0.00	0.00
41.00	1.25	0.00	0.00	92.00	1.25	0.00	0.00
42.00	1.25	0.00	0.00	93.00	1.25	0.00	0.00
43.00	1.25	0.00	0.00	94.00	1.25	0.00	0.00
44.00	1.25	0.00	0.00	95.00	1.25	0.00	0.00
45.00	1.25	0.00	0.00	96.00	1.25	0.00	0.00
46.00	1.25	0.00	0.00	97.00	1.25	0.00	0.00
47.00	1.25	0.00	0.00	98.00	1.25	0.00	0.00
48.00	1.25	0.00	0.00	99.00	1.25	0.00	0.00
49.00	1.25	0.00	0.00	100.00	1.25	0.00	0.00
50.00	1.25	0.00	0.00				

Summary for Subcatchment 2S: E-200 PERV

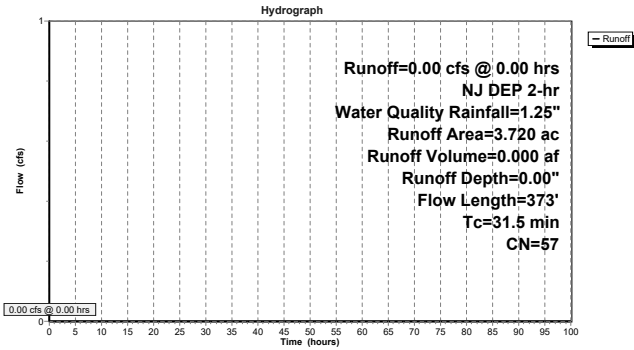
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
2.400	55	Woods, Good, HSG B
0.010	30	Woods, Good, HSG A
1.310	61	>75% Grass cover, Good, HSG B
3.720	57	Weighted Average
3.720		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 2S: E-200 PERV



Hydrograph for Subcatchment 2S: E-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	0.00	0.00
1.00	0.63	0.00	0.00	52.00	1.25	0.00	0.00
2.00	1.25	0.00	0.00	53.00	1.25	0.00	0.00
3.00	1.25	0.00	0.00	54.00	1.25	0.00	0.00
4.00	1.25	0.00	0.00	55.00	1.25	0.00	0.00
5.00	1.25	0.00	0.00	56.00	1.25	0.00	0.00
6.00	1.25	0.00	0.00	57.00	1.25	0.00	0.00
7.00	1.25	0.00	0.00	58.00	1.25	0.00	0.00
8.00	1.25	0.00	0.00	59.00	1.25	0.00	0.00
9.00	1.25	0.00	0.00	60.00	1.25	0.00	0.00
10.00	1.25	0.00	0.00	61.00	1.25	0.00	0.00
11.00	1.25	0.00	0.00	62.00	1.25	0.00	0.00
12.00	1.25	0.00	0.00	63.00	1.25	0.00	0.00
13.00	1.25	0.00	0.00	64.00	1.25	0.00	0.00
14.00	1.25	0.00	0.00	65.00	1.25	0.00	0.00
15.00	1.25	0.00	0.00	66.00	1.25	0.00	0.00
16.00	1.25	0.00	0.00	67.00	1.25	0.00	0.00
17.00	1.25	0.00	0.00	68.00	1.25	0.00	0.00
18.00	1.25	0.00	0.00	69.00	1.25	0.00	0.00
19.00	1.25	0.00	0.00	70.00	1.25	0.00	0.00
20.00	1.25	0.00	0.00	71.00	1.25	0.00	0.00
21.00	1.25	0.00	0.00	72.00	1.25	0.00	0.00
22.00	1.25	0.00	0.00	73.00	1.25	0.00	0.00
23.00	1.25	0.00	0.00	74.00	1.25	0.00	0.00
24.00	1.25	0.00	0.00	75.00	1.25	0.00	0.00
25.00	1.25	0.00	0.00	76.00	1.25	0.00	0.00
26.00	1.25	0.00	0.00	77.00	1.25	0.00	0.00
27.00	1.25	0.00	0.00	78.00	1.25	0.00	0.00
28.00	1.25	0.00	0.00	79.00	1.25	0.00	0.00
29.00	1.25	0.00	0.00	80.00	1.25	0.00	0.00
30.00	1.25	0.00	0.00	81.00	1.25	0.00	0.00
31.00	1.25	0.00	0.00	82.00	1.25	0.00	0.00
32.00	1.25	0.00	0.00	83.00	1.25	0.00	0.00
33.00	1.25	0.00	0.00	84.00	1.25	0.00	0.00
34.00	1.25	0.00	0.00	85.00	1.25	0.00	0.00
35.00	1.25	0.00	0.00	86.00	1.25	0.00	0.00
36.00	1.25	0.00	0.00	87.00	1.25	0.00	0.00
37.00	1.25	0.00	0.00	88.00	1.25	0.00	0.00
38.00	1.25	0.00	0.00	89.00	1.25	0.00	0.00
39.00	1.25	0.00	0.00	90.00	1.25	0.00	0.00
40.00	1.25	0.00	0.00	91.00	1.25	0.00	0.00
41.00	1.25	0.00	0.00	92.00	1.25	0.00	0.00
42.00	1.25	0.00	0.00	93.00	1.25	0.00	0.00
43.00	1.25	0.00	0.00	94.00	1.25	0.00	0.00
44.00	1.25	0.00	0.00	95.00	1.25	0.00	0.00
45.00	1.25	0.00	0.00	96.00	1.25	0.00	0.00
46.00	1.25	0.00	0.00	97.00	1.25	0.00	0.00
47.00	1.25	0.00	0.00	98.00	1.25	0.00	0.00
48.00	1.25	0.00	0.00	99.00	1.25	0.00	0.00
49.00	1.25	0.00	0.00	100.00	1.25	0.00	0.00
50.00	1.25	0.00	0.00				

Summary for Subcatchment 3S: E-300 PERV

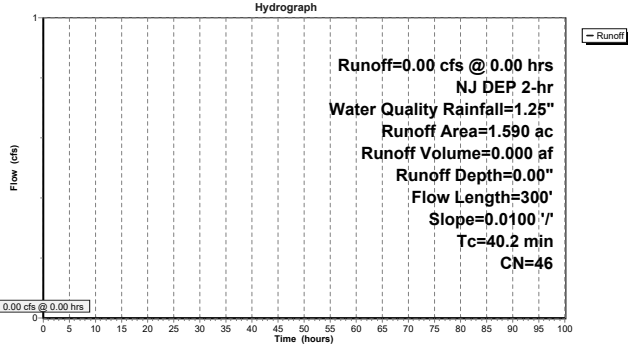
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	Pasture/grassland/range, Good, HSG B
0.940	39	Pasture/grassland/range, Good, HSG A
1.590	46	Weighted Average
1.590		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 3S: E-300 PERV



Hydrograph for Subcatchment 3S: E-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	0.00	0.00
1.00	0.63	0.00	0.00	52.00	1.25	0.00	0.00
2.00	1.25	0.00	0.00	53.00	1.25	0.00	0.00
3.00	1.25	0.00	0.00	54.00	1.25	0.00	0.00
4.00	1.25	0.00	0.00	55.00	1.25	0.00	0.00
5.00	1.25	0.00	0.00	56.00	1.25	0.00	0.00
6.00	1.25	0.00	0.00	57.00	1.25	0.00	0.00
7.00	1.25	0.00	0.00	58.00	1.25	0.00	0.00
8.00	1.25	0.00	0.00	59.00	1.25	0.00	0.00
9.00	1.25	0.00	0.00	60.00	1.25	0.00	0.00
10.00	1.25	0.00	0.00	61.00	1.25	0.00	0.00
11.00	1.25	0.00	0.00	62.00	1.25	0.00	0.00
12.00	1.25	0.00	0.00	63.00	1.25	0.00	0.00
13.00	1.25	0.00	0.00	64.00	1.25	0.00	0.00
14.00	1.25	0.00	0.00	65.00	1.25	0.00	0.00
15.00	1.25	0.00	0.00	66.00	1.25	0.00	0.00
16.00	1.25	0.00	0.00	67.00	1.25	0.00	0.00
17.00	1.25	0.00	0.00	68.00	1.25	0.00	0.00
18.00	1.25	0.00	0.00	69.00	1.25	0.00	0.00
19.00	1.25	0.00	0.00	70.00	1.25	0.00	0.00
20.00	1.25	0.00	0.00	71.00	1.25	0.00	0.00
21.00	1.25	0.00	0.00	72.00	1.25	0.00	0.00
22.00	1.25	0.00	0.00	73.00	1.25	0.00	0.00
23.00	1.25	0.00	0.00	74.00	1.25	0.00	0.00
24.00	1.25	0.00	0.00	75.00	1.25	0.00	0.00
25.00	1.25	0.00	0.00	76.00	1.25	0.00	0.00
26.00	1.25	0.00	0.00	77.00	1.25	0.00	0.00
27.00	1.25	0.00	0.00	78.00	1.25	0.00	0.00
28.00	1.25	0.00	0.00	79.00	1.25	0.00	0.00
29.00	1.25	0.00	0.00	80.00	1.25	0.00	0.00
30.00	1.25	0.00	0.00	81.00	1.25	0.00	0.00
31.00	1.25	0.00	0.00	82.00	1.25	0.00	0.00
32.00	1.25	0.00	0.00	83.00	1.25	0.00	0.00
33.00	1.25	0.00	0.00	84.00	1.25	0.00	0.00
34.00	1.25	0.00	0.00	85.00	1.25	0.00	0.00
35.00	1.25	0.00	0.00	86.00	1.25	0.00	0.00
36.00	1.25	0.00	0.00	87.00	1.25	0.00	0.00
37.00	1.25	0.00	0.00	88.00	1.25	0.00	0.00
38.00	1.25	0.00	0.00	89.00	1.25	0.00	0.00
39.00	1.25	0.00	0.00	90.00	1.25	0.00	0.00
40.00	1.25	0.00	0.00	91.00	1.25	0.00	0.00
41.00	1.25	0.00	0.00	92.00	1.25	0.00	0.00
42.00	1.25	0.00	0.00	93.00	1.25	0.00	0.00
43.00	1.25	0.00	0.00	94.00	1.25	0.00	0.00
44.00	1.25	0.00	0.00	95.00	1.25	0.00	0.00
45.00	1.25	0.00	0.00	96.00	1.25	0.00	0.00
46.00	1.25	0.00	0.00	97.00	1.25	0.00	0.00
47.00	1.25	0.00	0.00	98.00	1.25	0.00	0.00
48.00	1.25	0.00	0.00	99.00	1.25	0.00	0.00
49.00	1.25	0.00	0.00	100.00	1.25	0.00	0.00
50.00	1.25	0.00	0.00				

Summary for Subcatchment 4S: E-400 PERV

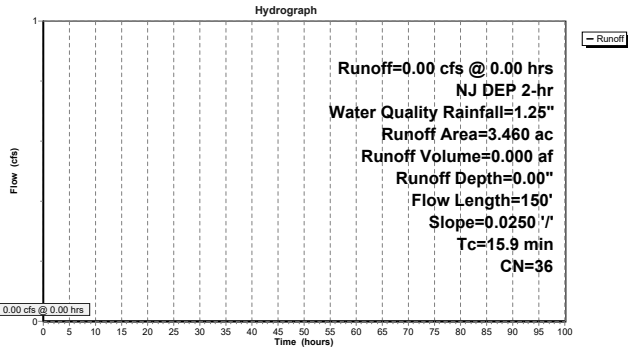
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.980	39	Pasture/grassland/range, Good, HSG A
3.460	36	Weighted Average
3.460		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 4S: E-400 PERV



Hydrograph for Subcatchment 4S: E-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	0.00	0.00
1.00	0.63	0.00	0.00	52.00	1.25	0.00	0.00
2.00	1.25	0.00	0.00	53.00	1.25	0.00	0.00
3.00	1.25	0.00	0.00	54.00	1.25	0.00	0.00
4.00	1.25	0.00	0.00	55.00	1.25	0.00	0.00
5.00	1.25	0.00	0.00	56.00	1.25	0.00	0.00
6.00	1.25	0.00	0.00	57.00	1.25	0.00	0.00
7.00	1.25	0.00	0.00	58.00	1.25	0.00	0.00
8.00	1.25	0.00	0.00	59.00	1.25	0.00	0.00
9.00	1.25	0.00	0.00	60.00	1.25	0.00	0.00
10.00	1.25	0.00	0.00	61.00	1.25	0.00	0.00
11.00	1.25	0.00	0.00	62.00	1.25	0.00	0.00
12.00	1.25	0.00	0.00	63.00	1.25	0.00	0.00
13.00	1.25	0.00	0.00	64.00	1.25	0.00	0.00
14.00	1.25	0.00	0.00	65.00	1.25	0.00	0.00
15.00	1.25	0.00	0.00	66.00	1.25	0.00	0.00
16.00	1.25	0.00	0.00	67.00	1.25	0.00	0.00
17.00	1.25	0.00	0.00	68.00	1.25	0.00	0.00
18.00	1.25	0.00	0.00	69.00	1.25	0.00	0.00
19.00	1.25	0.00	0.00	70.00	1.25	0.00	0.00
20.00	1.25	0.00	0.00	71.00	1.25	0.00	0.00
21.00	1.25	0.00	0.00	72.00	1.25	0.00	0.00
22.00	1.25	0.00	0.00	73.00	1.25	0.00	0.00
23.00	1.25	0.00	0.00	74.00	1.25	0.00	0.00
24.00	1.25	0.00	0.00	75.00	1.25	0.00	0.00
25.00	1.25	0.00	0.00	76.00	1.25	0.00	0.00
26.00	1.25	0.00	0.00	77.00	1.25	0.00	0.00
27.00	1.25	0.00	0.00	78.00	1.25	0.00	0.00
28.00	1.25	0.00	0.00	79.00	1.25	0.00	0.00
29.00	1.25	0.00	0.00	80.00	1.25	0.00	0.00
30.00	1.25	0.00	0.00	81.00	1.25	0.00	0.00
31.00	1.25	0.00	0.00	82.00	1.25	0.00	0.00
32.00	1.25	0.00	0.00	83.00	1.25	0.00	0.00
33.00	1.25	0.00	0.00	84.00	1.25	0.00	0.00
34.00	1.25	0.00	0.00	85.00	1.25	0.00	0.00
35.00	1.25	0.00	0.00	86.00	1.25	0.00	0.00
36.00	1.25	0.00	0.00	87.00	1.25	0.00	0.00
37.00	1.25	0.00	0.00	88.00	1.25	0.00	0.00
38.00	1.25	0.00	0.00	89.00	1.25	0.00	0.00
39.00	1.25	0.00	0.00	90.00	1.25	0.00	0.00
40.00	1.25	0.00	0.00	91.00	1.25	0.00	0.00
41.00	1.25	0.00	0.00	92.00	1.25	0.00	0.00
42.00	1.25	0.00	0.00	93.00	1.25	0.00	0.00
43.00	1.25	0.00	0.00	94.00	1.25	0.00	0.00
44.00	1.25	0.00	0.00	95.00	1.25	0.00	0.00
45.00	1.25	0.00	0.00	96.00	1.25	0.00	0.00
46.00	1.25	0.00	0.00	97.00	1.25	0.00	0.00
47.00	1.25	0.00	0.00	98.00	1.25	0.00	0.00
48.00	1.25	0.00	0.00	99.00	1.25	0.00	0.00
49.00	1.25	0.00	0.00	100.00	1.25	0.00	0.00
50.00	1.25	0.00	0.00				

Summary for Subcatchment 45S: P-100 PERV

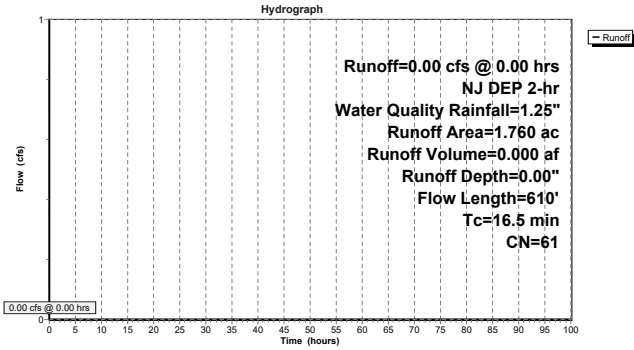
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
0.130	55	Woods, Good, HSG B
1.630	61	>75% Grass cover, Good, HSG B
1.760	61	Weighted Average
1.760		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 45S: P-100 PERV



Hydrograph for Subcatchment 45S: P-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	0.00	0.00
1.00	0.63	0.00	0.00	52.00	1.25	0.00	0.00
2.00	1.25	0.00	0.00	53.00	1.25	0.00	0.00
3.00	1.25	0.00	0.00	54.00	1.25	0.00	0.00
4.00	1.25	0.00	0.00	55.00	1.25	0.00	0.00
5.00	1.25	0.00	0.00	56.00	1.25	0.00	0.00
6.00	1.25	0.00	0.00	57.00	1.25	0.00	0.00
7.00	1.25	0.00	0.00	58.00	1.25	0.00	0.00
8.00	1.25	0.00	0.00	59.00	1.25	0.00	0.00
9.00	1.25	0.00	0.00	60.00	1.25	0.00	0.00
10.00	1.25	0.00	0.00	61.00	1.25	0.00	0.00
11.00	1.25	0.00	0.00	62.00	1.25	0.00	0.00
12.00	1.25	0.00	0.00	63.00	1.25	0.00	0.00
13.00	1.25	0.00	0.00	64.00	1.25	0.00	0.00
14.00	1.25	0.00	0.00	65.00	1.25	0.00	0.00
15.00	1.25	0.00	0.00	66.00	1.25	0.00	0.00
16.00	1.25	0.00	0.00	67.00	1.25	0.00	0.00
17.00	1.25	0.00	0.00	68.00	1.25	0.00	0.00
18.00	1.25	0.00	0.00	69.00	1.25	0.00	0.00
19.00	1.25	0.00	0.00	70.00	1.25	0.00	0.00
20.00	1.25	0.00	0.00	71.00	1.25	0.00	0.00
21.00	1.25	0.00	0.00	72.00	1.25	0.00	0.00
22.00	1.25	0.00	0.00	73.00	1.25	0.00	0.00
23.00	1.25	0.00	0.00	74.00	1.25	0.00	0.00
24.00	1.25	0.00	0.00	75.00	1.25	0.00	0.00
25.00	1.25	0.00	0.00	76.00	1.25	0.00	0.00
26.00	1.25	0.00	0.00	77.00	1.25	0.00	0.00
27.00	1.25	0.00	0.00	78.00	1.25	0.00	0.00
28.00	1.25	0.00	0.00	79.00	1.25	0.00	0.00
29.00	1.25	0.00	0.00	80.00	1.25	0.00	0.00
30.00	1.25	0.00	0.00	81.00	1.25	0.00	0.00
31.00	1.25	0.00	0.00	82.00	1.25	0.00	0.00
32.00	1.25	0.00	0.00	83.00	1.25	0.00	0.00
33.00	1.25	0.00	0.00	84.00	1.25	0.00	0.00
34.00	1.25	0.00	0.00	85.00	1.25	0.00	0.00
35.00	1.25	0.00	0.00	86.00	1.25	0.00	0.00
36.00	1.25	0.00	0.00	87.00	1.25	0.00	0.00
37.00	1.25	0.00	0.00	88.00	1.25	0.00	0.00
38.00	1.25	0.00	0.00	89.00	1.25	0.00	0.00
39.00	1.25	0.00	0.00	90.00	1.25	0.00	0.00
40.00	1.25	0.00	0.00	91.00	1.25	0.00	0.00
41.00	1.25	0.00	0.00	92.00	1.25	0.00	0.00
42.00	1.25	0.00	0.00	93.00	1.25	0.00	0.00
43.00	1.25	0.00	0.00	94.00	1.25	0.00	0.00
44.00	1.25	0.00	0.00	95.00	1.25	0.00	0.00
45.00	1.25	0.00	0.00	96.00	1.25	0.00	0.00
46.00	1.25	0.00	0.00	97.00	1.25	0.00	0.00
47.00	1.25	0.00	0.00	98.00	1.25	0.00	0.00
48.00	1.25	0.00	0.00	99.00	1.25	0.00	0.00
49.00	1.25	0.00	0.00	100.00	1.25	0.00	0.00
50.00	1.25	0.00	0.00				

Summary for Subcatchment 46S: P-200 PERV

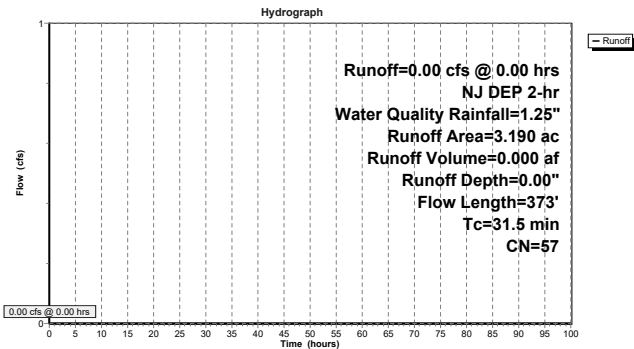
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
2.070	55	Woods, Good, HSG B
0.000	30	Woods, Good, HSG A
1.110	61	>75% Grass cover, Good, HSG B
0.010	39	>75% Grass cover, Good, HSG A
3.190	57	Weighted Average
3.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 46S: P-200 PERV



Hydrograph for Subcatchment 46S: P-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	0.00	0.00
1.00	0.63	0.00	0.00	52.00	1.25	0.00	0.00
2.00	1.25	0.00	0.00	53.00	1.25	0.00	0.00
3.00	1.25	0.00	0.00	54.00	1.25	0.00	0.00
4.00	1.25	0.00	0.00	55.00	1.25	0.00	0.00
5.00	1.25	0.00	0.00	56.00	1.25	0.00	0.00
6.00	1.25	0.00	0.00	57.00	1.25	0.00	0.00
7.00	1.25	0.00	0.00	58.00	1.25	0.00	0.00
8.00	1.25	0.00	0.00	59.00	1.25	0.00	0.00
9.00	1.25	0.00	0.00	60.00	1.25	0.00	0.00
10.00	1.25	0.00	0.00	61.00	1.25	0.00	0.00
11.00	1.25	0.00	0.00	62.00	1.25	0.00	0.00
12.00	1.25	0.00	0.00	63.00	1.25	0.00	0.00
13.00	1.25	0.00	0.00	64.00	1.25	0.00	0.00
14.00	1.25	0.00	0.00	65.00	1.25	0.00	0.00
15.00	1.25	0.00	0.00	66.00	1.25	0.00	0.00
16.00	1.25	0.00	0.00	67.00	1.25	0.00	0.00
17.00	1.25	0.00	0.00	68.00	1.25	0.00	0.00
18.00	1.25	0.00	0.00	69.00	1.25	0.00	0.00
19.00	1.25	0.00	0.00	70.00	1.25	0.00	0.00
20.00	1.25	0.00	0.00	71.00	1.25	0.00	0.00
21.00	1.25	0.00	0.00	72.00	1.25	0.00	0.00
22.00	1.25	0.00	0.00	73.00	1.25	0.00	0.00
23.00	1.25	0.00	0.00	74.00	1.25	0.00	0.00
24.00	1.25	0.00	0.00	75.00	1.25	0.00	0.00
25.00	1.25	0.00	0.00	76.00	1.25	0.00	0.00
26.00	1.25	0.00	0.00	77.00	1.25	0.00	0.00
27.00	1.25	0.00	0.00	78.00	1.25	0.00	0.00
28.00	1.25	0.00	0.00	79.00	1.25	0.00	0.00
29.00	1.25	0.00	0.00	80.00	1.25	0.00	0.00
30.00	1.25	0.00	0.00	81.00	1.25	0.00	0.00
31.00	1.25	0.00	0.00	82.00	1.25	0.00	0.00
32.00	1.25	0.00	0.00	83.00	1.25	0.00	0.00
33.00	1.25	0.00	0.00	84.00	1.25	0.00	0.00
34.00	1.25	0.00	0.00	85.00	1.25	0.00	0.00
35.00	1.25	0.00	0.00	86.00	1.25	0.00	0.00
36.00	1.25	0.00	0.00	87.00	1.25	0.00	0.00
37.00	1.25	0.00	0.00	88.00	1.25	0.00	0.00
38.00	1.25	0.00	0.00	89.00	1.25	0.00	0.00
39.00	1.25	0.00	0.00	90.00	1.25	0.00	0.00
40.00	1.25	0.00	0.00	91.00	1.25	0.00	0.00
41.00	1.25	0.00	0.00	92.00	1.25	0.00	0.00
42.00	1.25	0.00	0.00	93.00	1.25	0.00	0.00
43.00	1.25	0.00	0.00	94.00	1.25	0.00	0.00
44.00	1.25	0.00	0.00	95.00	1.25	0.00	0.00
45.00	1.25	0.00	0.00	96.00	1.25	0.00	0.00
46.00	1.25	0.00	0.00	97.00	1.25	0.00	0.00
47.00	1.25	0.00	0.00	98.00	1.25	0.00	0.00
48.00	1.25	0.00	0.00	99.00	1.25	0.00	0.00
49.00	1.25	0.00	0.00	100.00	1.25	0.00	0.00
50.00	1.25	0.00	0.00				

Summary for Subcatchment 47S: P-300 PERV

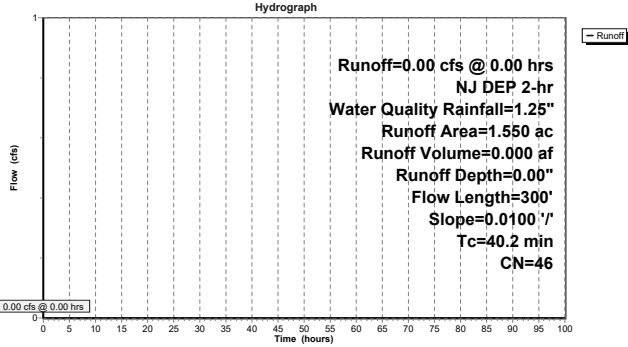
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	>75% Grass cover, Good, HSG B
0.900	39	>75% Grass cover, Good, HSG A
1.550	46	Weighted Average
1.550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 47S: P-300 PERV



Hydrograph for Subcatchment 47S: P-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	0.00	0.00
1.00	0.63	0.00	0.00	52.00	1.25	0.00	0.00
2.00	1.25	0.00	0.00	53.00	1.25	0.00	0.00
3.00	1.25	0.00	0.00	54.00	1.25	0.00	0.00
4.00	1.25	0.00	0.00	55.00	1.25	0.00	0.00
5.00	1.25	0.00	0.00	56.00	1.25	0.00	0.00
6.00	1.25	0.00	0.00	57.00	1.25	0.00	0.00
7.00	1.25	0.00	0.00	58.00	1.25	0.00	0.00
8.00	1.25	0.00	0.00	59.00	1.25	0.00	0.00
9.00	1.25	0.00	0.00	60.00	1.25	0.00	0.00
10.00	1.25	0.00	0.00	61.00	1.25	0.00	0.00
11.00	1.25	0.00	0.00	62.00	1.25	0.00	0.00
12.00	1.25	0.00	0.00	63.00	1.25	0.00	0.00
13.00	1.25	0.00	0.00	64.00	1.25	0.00	0.00
14.00	1.25	0.00	0.00	65.00	1.25	0.00	0.00
15.00	1.25	0.00	0.00	66.00	1.25	0.00	0.00
16.00	1.25	0.00	0.00	67.00	1.25	0.00	0.00
17.00	1.25	0.00	0.00	68.00	1.25	0.00	0.00
18.00	1.25	0.00	0.00	69.00	1.25	0.00	0.00
19.00	1.25	0.00	0.00	70.00	1.25	0.00	0.00
20.00	1.25	0.00	0.00	71.00	1.25	0.00	0.00
21.00	1.25	0.00	0.00	72.00	1.25	0.00	0.00
22.00	1.25	0.00	0.00	73.00	1.25	0.00	0.00
23.00	1.25	0.00	0.00	74.00	1.25	0.00	0.00
24.00	1.25	0.00	0.00	75.00	1.25	0.00	0.00
25.00	1.25	0.00	0.00	76.00	1.25	0.00	0.00
26.00	1.25	0.00	0.00	77.00	1.25	0.00	0.00
27.00	1.25	0.00	0.00	78.00	1.25	0.00	0.00
28.00	1.25	0.00	0.00	79.00	1.25	0.00	0.00
29.00	1.25	0.00	0.00	80.00	1.25	0.00	0.00
30.00	1.25	0.00	0.00	81.00	1.25	0.00	0.00
31.00	1.25	0.00	0.00	82.00	1.25	0.00	0.00
32.00	1.25	0.00	0.00	83.00	1.25	0.00	0.00
33.00	1.25	0.00	0.00	84.00	1.25	0.00	0.00
34.00	1.25	0.00	0.00	85.00	1.25	0.00	0.00
35.00	1.25	0.00	0.00	86.00	1.25	0.00	0.00
36.00	1.25	0.00	0.00	87.00	1.25	0.00	0.00
37.00	1.25	0.00	0.00	88.00	1.25	0.00	0.00
38.00	1.25	0.00	0.00	89.00	1.25	0.00	0.00
39.00	1.25	0.00	0.00	90.00	1.25	0.00	0.00
40.00	1.25	0.00	0.00	91.00	1.25	0.00	0.00
41.00	1.25	0.00	0.00	92.00	1.25	0.00	0.00
42.00	1.25	0.00	0.00	93.00	1.25	0.00	0.00
43.00	1.25	0.00	0.00	94.00	1.25	0.00	0.00
44.00	1.25	0.00	0.00	95.00	1.25	0.00	0.00
45.00	1.25	0.00	0.00	96.00	1.25	0.00	0.00
46.00	1.25	0.00	0.00	97.00	1.25	0.00	0.00
47.00	1.25	0.00	0.00	98.00	1.25	0.00	0.00
48.00	1.25	0.00	0.00	99.00	1.25	0.00	0.00
49.00	1.25	0.00	0.00	100.00	1.25	0.00	0.00
50.00	1.25	0.00	0.00				

Summary for Subcatchment 48S: P-400 PERV

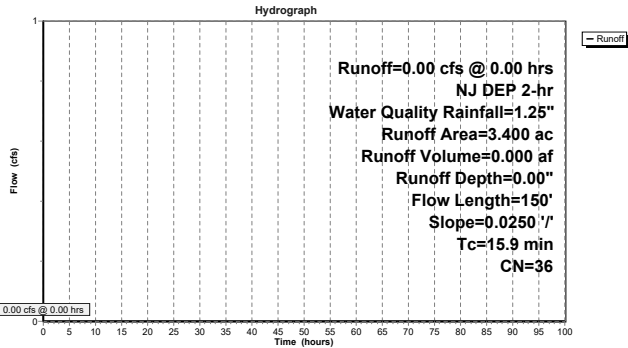
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.920	39	>75% Grass cover, Good, HSG A
3.400	36	Weighted Average
3.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 48S: P-400 PERV



Hydrograph for Subcatchment 48S: P-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	0.00	0.00
1.00	0.63	0.00	0.00	52.00	1.25	0.00	0.00
2.00	1.25	0.00	0.00	53.00	1.25	0.00	0.00
3.00	1.25	0.00	0.00	54.00	1.25	0.00	0.00
4.00	1.25	0.00	0.00	55.00	1.25	0.00	0.00
5.00	1.25	0.00	0.00	56.00	1.25	0.00	0.00
6.00	1.25	0.00	0.00	57.00	1.25	0.00	0.00
7.00	1.25	0.00	0.00	58.00	1.25	0.00	0.00
8.00	1.25	0.00	0.00	59.00	1.25	0.00	0.00
9.00	1.25	0.00	0.00	60.00	1.25	0.00	0.00
10.00	1.25	0.00	0.00	61.00	1.25	0.00	0.00
11.00	1.25	0.00	0.00	62.00	1.25	0.00	0.00
12.00	1.25	0.00	0.00	63.00	1.25	0.00	0.00
13.00	1.25	0.00	0.00	64.00	1.25	0.00	0.00
14.00	1.25	0.00	0.00	65.00	1.25	0.00	0.00
15.00	1.25	0.00	0.00	66.00	1.25	0.00	0.00
16.00	1.25	0.00	0.00	67.00	1.25	0.00	0.00
17.00	1.25	0.00	0.00	68.00	1.25	0.00	0.00
18.00	1.25	0.00	0.00	69.00	1.25	0.00	0.00
19.00	1.25	0.00	0.00	70.00	1.25	0.00	0.00
20.00	1.25	0.00	0.00	71.00	1.25	0.00	0.00
21.00	1.25	0.00	0.00	72.00	1.25	0.00	0.00
22.00	1.25	0.00	0.00	73.00	1.25	0.00	0.00
23.00	1.25	0.00	0.00	74.00	1.25	0.00	0.00
24.00	1.25	0.00	0.00	75.00	1.25	0.00	0.00
25.00	1.25	0.00	0.00	76.00	1.25	0.00	0.00
26.00	1.25	0.00	0.00	77.00	1.25	0.00	0.00
27.00	1.25	0.00	0.00	78.00	1.25	0.00	0.00
28.00	1.25	0.00	0.00	79.00	1.25	0.00	0.00
29.00	1.25	0.00	0.00	80.00	1.25	0.00	0.00
30.00	1.25	0.00	0.00	81.00	1.25	0.00	0.00
31.00	1.25	0.00	0.00	82.00	1.25	0.00	0.00
32.00	1.25	0.00	0.00	83.00	1.25	0.00	0.00
33.00	1.25	0.00	0.00	84.00	1.25	0.00	0.00
34.00	1.25	0.00	0.00	85.00	1.25	0.00	0.00
35.00	1.25	0.00	0.00	86.00	1.25	0.00	0.00
36.00	1.25	0.00	0.00	87.00	1.25	0.00	0.00
37.00	1.25	0.00	0.00	88.00	1.25	0.00	0.00
38.00	1.25	0.00	0.00	89.00	1.25	0.00	0.00
39.00	1.25	0.00	0.00	90.00	1.25	0.00	0.00
40.00	1.25	0.00	0.00	91.00	1.25	0.00	0.00
41.00	1.25	0.00	0.00	92.00	1.25	0.00	0.00
42.00	1.25	0.00	0.00	93.00	1.25	0.00	0.00
43.00	1.25	0.00	0.00	94.00	1.25	0.00	0.00
44.00	1.25	0.00	0.00	95.00	1.25	0.00	0.00
45.00	1.25	0.00	0.00	96.00	1.25	0.00	0.00
46.00	1.25	0.00	0.00	97.00	1.25	0.00	0.00
47.00	1.25	0.00	0.00	98.00	1.25	0.00	0.00
48.00	1.25	0.00	0.00	99.00	1.25	0.00	0.00
49.00	1.25	0.00	0.00	100.00	1.25	0.00	0.00
50.00	1.25	0.00	0.00				

Summary for Subcatchment 49S: P-100 IMP

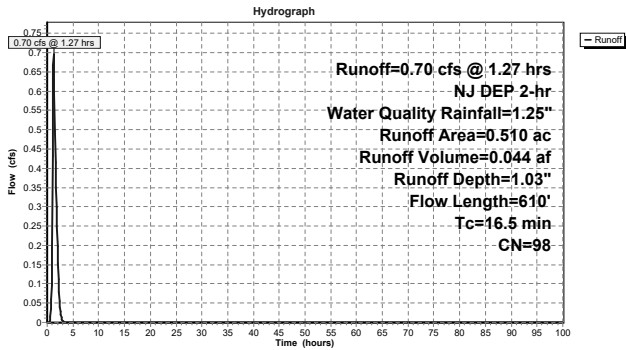
Runoff = 0.70 cfs @ 1.27 hrs, Volume= 0.044 af, Depth= 1.03"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
* 0.510	98	Unconnected pavement
0.510		100.00% Impervious Area
0.510		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 49S: P-100 IMP



Hydrograph for Subcatchment 49S: P-100 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	1.03	0.00
1.00	0.63	0.43	0.19	52.00	1.25	1.03	0.00
2.00	1.25	1.03	0.20	53.00	1.25	1.03	0.00
3.00	1.25	1.03	0.00	54.00	1.25	1.03	0.00
4.00	1.25	1.03	0.00	55.00	1.25	1.03	0.00
5.00	1.25	1.03	0.00	56.00	1.25	1.03	0.00
6.00	1.25	1.03	0.00	57.00	1.25	1.03	0.00
7.00	1.25	1.03	0.00	58.00	1.25	1.03	0.00
8.00	1.25	1.03	0.00	59.00	1.25	1.03	0.00
9.00	1.25	1.03	0.00	60.00	1.25	1.03	0.00
10.00	1.25	1.03	0.00	61.00	1.25	1.03	0.00
11.00	1.25	1.03	0.00	62.00	1.25	1.03	0.00
12.00	1.25	1.03	0.00	63.00	1.25	1.03	0.00
13.00	1.25	1.03	0.00	64.00	1.25	1.03	0.00
14.00	1.25	1.03	0.00	65.00	1.25	1.03	0.00
15.00	1.25	1.03	0.00	66.00	1.25	1.03	0.00
16.00	1.25	1.03	0.00	67.00	1.25	1.03	0.00
17.00	1.25	1.03	0.00	68.00	1.25	1.03	0.00
18.00	1.25	1.03	0.00	69.00	1.25	1.03	0.00
19.00	1.25	1.03	0.00	70.00	1.25	1.03	0.00
20.00	1.25	1.03	0.00	71.00	1.25	1.03	0.00
21.00	1.25	1.03	0.00	72.00	1.25	1.03	0.00
22.00	1.25	1.03	0.00	73.00	1.25	1.03	0.00
23.00	1.25	1.03	0.00	74.00	1.25	1.03	0.00
24.00	1.25	1.03	0.00	75.00	1.25	1.03	0.00
25.00	1.25	1.03	0.00	76.00	1.25	1.03	0.00
26.00	1.25	1.03	0.00	77.00	1.25	1.03	0.00
27.00	1.25	1.03	0.00	78.00	1.25	1.03	0.00
28.00	1.25	1.03	0.00	79.00	1.25	1.03	0.00
29.00	1.25	1.03	0.00	80.00	1.25	1.03	0.00
30.00	1.25	1.03	0.00	81.00	1.25	1.03	0.00
31.00	1.25	1.03	0.00	82.00	1.25	1.03	0.00
32.00	1.25	1.03	0.00	83.00	1.25	1.03	0.00
33.00	1.25	1.03	0.00	84.00	1.25	1.03	0.00
34.00	1.25	1.03	0.00	85.00	1.25	1.03	0.00
35.00	1.25	1.03	0.00	86.00	1.25	1.03	0.00
36.00	1.25	1.03	0.00	87.00	1.25	1.03	0.00
37.00	1.25	1.03	0.00	88.00	1.25	1.03	0.00
38.00	1.25	1.03	0.00	89.00	1.25	1.03	0.00
39.00	1.25	1.03	0.00	90.00	1.25	1.03	0.00
40.00	1.25	1.03	0.00	91.00	1.25	1.03	0.00
41.00	1.25	1.03	0.00	92.00	1.25	1.03	0.00
42.00	1.25	1.03	0.00	93.00	1.25	1.03	0.00
43.00	1.25	1.03	0.00	94.00	1.25	1.03	0.00
44.00	1.25	1.03	0.00	95.00	1.25	1.03	0.00
45.00	1.25	1.03	0.00	96.00	1.25	1.03	0.00
46.00	1.25	1.03	0.00	97.00	1.25	1.03	0.00
47.00	1.25	1.03	0.00	98.00	1.25	1.03	0.00
48.00	1.25	1.03	0.00	99.00	1.25	1.03	0.00
49.00	1.25	1.03	0.00	100.00	1.25	1.03	0.00
50.00	1.25	1.03	0.00				

Summary for Subcatchment 50S: P-200 IMP

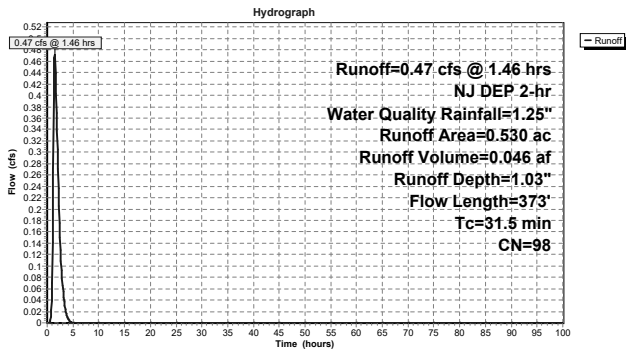
Runoff = 0.47 cfs @ 1.46 hrs, Volume= 0.046 af, Depth= 1.03"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
* 0.530	98	Unconnected pavement
0.530		100.00% Impervious Area
0.530		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 50S: P-200 IMP



Hydrograph for Subcatchment 50S: P-200 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	1.03	0.00
1.00	0.63	0.43	0.07	52.00	1.25	1.03	0.00
2.00	1.25	1.03	0.30	53.00	1.25	1.03	0.00
3.00	1.25	1.03	0.07	54.00	1.25	1.03	0.00
4.00	1.25	1.03	0.01	55.00	1.25	1.03	0.00
5.00	1.25	1.03	0.00	56.00	1.25	1.03	0.00
6.00	1.25	1.03	0.00	57.00	1.25	1.03	0.00
7.00	1.25	1.03	0.00	58.00	1.25	1.03	0.00
8.00	1.25	1.03	0.00	59.00	1.25	1.03	0.00
9.00	1.25	1.03	0.00	60.00	1.25	1.03	0.00
10.00	1.25	1.03	0.00	61.00	1.25	1.03	0.00
11.00	1.25	1.03	0.00	62.00	1.25	1.03	0.00
12.00	1.25	1.03	0.00	63.00	1.25	1.03	0.00
13.00	1.25	1.03	0.00	64.00	1.25	1.03	0.00
14.00	1.25	1.03	0.00	65.00	1.25	1.03	0.00
15.00	1.25	1.03	0.00	66.00	1.25	1.03	0.00
16.00	1.25	1.03	0.00	67.00	1.25	1.03	0.00
17.00	1.25	1.03	0.00	68.00	1.25	1.03	0.00
18.00	1.25	1.03	0.00	69.00	1.25	1.03	0.00
19.00	1.25	1.03	0.00	70.00	1.25	1.03	0.00
20.00	1.25	1.03	0.00	71.00	1.25	1.03	0.00
21.00	1.25	1.03	0.00	72.00	1.25	1.03	0.00
22.00	1.25	1.03	0.00	73.00	1.25	1.03	0.00
23.00	1.25	1.03	0.00	74.00	1.25	1.03	0.00
24.00	1.25	1.03	0.00	75.00	1.25	1.03	0.00
25.00	1.25	1.03	0.00	76.00	1.25	1.03	0.00
26.00	1.25	1.03	0.00	77.00	1.25	1.03	0.00
27.00	1.25	1.03	0.00	78.00	1.25	1.03	0.00
28.00	1.25	1.03	0.00	79.00	1.25	1.03	0.00
29.00	1.25	1.03	0.00	80.00	1.25	1.03	0.00
30.00	1.25	1.03	0.00	81.00	1.25	1.03	0.00
31.00	1.25	1.03	0.00	82.00	1.25	1.03	0.00
32.00	1.25	1.03	0.00	83.00	1.25	1.03	0.00
33.00	1.25	1.03	0.00	84.00	1.25	1.03	0.00
34.00	1.25	1.03	0.00	85.00	1.25	1.03	0.00
35.00	1.25	1.03	0.00	86.00	1.25	1.03	0.00
36.00	1.25	1.03	0.00	87.00	1.25	1.03	0.00
37.00	1.25	1.03	0.00	88.00	1.25	1.03	0.00
38.00	1.25	1.03	0.00	89.00	1.25	1.03	0.00
39.00	1.25	1.03	0.00	90.00	1.25	1.03	0.00
40.00	1.25	1.03	0.00	91.00	1.25	1.03	0.00
41.00	1.25	1.03	0.00	92.00	1.25	1.03	0.00
42.00	1.25	1.03	0.00	93.00	1.25	1.03	0.00
43.00	1.25	1.03	0.00	94.00	1.25	1.03	0.00
44.00	1.25	1.03	0.00	95.00	1.25	1.03	0.00
45.00	1.25	1.03	0.00	96.00	1.25	1.03	0.00
46.00	1.25	1.03	0.00	97.00	1.25	1.03	0.00
47.00	1.25	1.03	0.00	98.00	1.25	1.03	0.00
48.00	1.25	1.03	0.00	99.00	1.25	1.03	0.00
49.00	1.25	1.03	0.00	100.00	1.25	1.03	0.00
50.00	1.25	1.03	0.00				

Summary for Subcatchment 51S: P-300 IMP

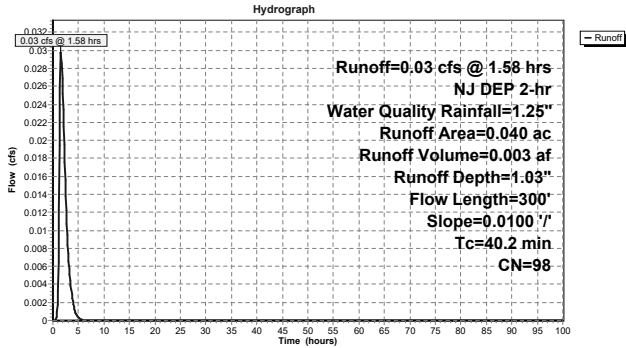
Runoff = 0.03 cfs @ 1.58 hrs, Volume= 0.003 af, Depth= 1.03"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
0.040	98	Unconnected pavement
0.040		100.00% Impervious Area
0.040		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 51S: P-300 IMP



Hydrograph for Subcatchment 51S: P-300 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	1.03	0.00
1.00	0.63	0.43	0.00	52.00	1.25	1.03	0.00
2.00	1.25	1.03	0.02	53.00	1.25	1.03	0.00
3.00	1.25	1.03	0.01	54.00	1.25	1.03	0.00
4.00	1.25	1.03	0.00	55.00	1.25	1.03	0.00
5.00	1.25	1.03	0.00	56.00	1.25	1.03	0.00
6.00	1.25	1.03	0.00	57.00	1.25	1.03	0.00
7.00	1.25	1.03	0.00	58.00	1.25	1.03	0.00
8.00	1.25	1.03	0.00	59.00	1.25	1.03	0.00
9.00	1.25	1.03	0.00	60.00	1.25	1.03	0.00
10.00	1.25	1.03	0.00	61.00	1.25	1.03	0.00
11.00	1.25	1.03	0.00	62.00	1.25	1.03	0.00
12.00	1.25	1.03	0.00	63.00	1.25	1.03	0.00
13.00	1.25	1.03	0.00	64.00	1.25	1.03	0.00
14.00	1.25	1.03	0.00	65.00	1.25	1.03	0.00
15.00	1.25	1.03	0.00	66.00	1.25	1.03	0.00
16.00	1.25	1.03	0.00	67.00	1.25	1.03	0.00
17.00	1.25	1.03	0.00	68.00	1.25	1.03	0.00
18.00	1.25	1.03	0.00	69.00	1.25	1.03	0.00
19.00	1.25	1.03	0.00	70.00	1.25	1.03	0.00
20.00	1.25	1.03	0.00	71.00	1.25	1.03	0.00
21.00	1.25	1.03	0.00	72.00	1.25	1.03	0.00
22.00	1.25	1.03	0.00	73.00	1.25	1.03	0.00
23.00	1.25	1.03	0.00	74.00	1.25	1.03	0.00
24.00	1.25	1.03	0.00	75.00	1.25	1.03	0.00
25.00	1.25	1.03	0.00	76.00	1.25	1.03	0.00
26.00	1.25	1.03	0.00	77.00	1.25	1.03	0.00
27.00	1.25	1.03	0.00	78.00	1.25	1.03	0.00
28.00	1.25	1.03	0.00	79.00	1.25	1.03	0.00
29.00	1.25	1.03	0.00	80.00	1.25	1.03	0.00
30.00	1.25	1.03	0.00	81.00	1.25	1.03	0.00
31.00	1.25	1.03	0.00	82.00	1.25	1.03	0.00
32.00	1.25	1.03	0.00	83.00	1.25	1.03	0.00
33.00	1.25	1.03	0.00	84.00	1.25	1.03	0.00
34.00	1.25	1.03	0.00	85.00	1.25	1.03	0.00
35.00	1.25	1.03	0.00	86.00	1.25	1.03	0.00
36.00	1.25	1.03	0.00	87.00	1.25	1.03	0.00
37.00	1.25	1.03	0.00	88.00	1.25	1.03	0.00
38.00	1.25	1.03	0.00	89.00	1.25	1.03	0.00
39.00	1.25	1.03	0.00	90.00	1.25	1.03	0.00
40.00	1.25	1.03	0.00	91.00	1.25	1.03	0.00
41.00	1.25	1.03	0.00	92.00	1.25	1.03	0.00
42.00	1.25	1.03	0.00	93.00	1.25	1.03	0.00
43.00	1.25	1.03	0.00	94.00	1.25	1.03	0.00
44.00	1.25	1.03	0.00	95.00	1.25	1.03	0.00
45.00	1.25	1.03	0.00	96.00	1.25	1.03	0.00
46.00	1.25	1.03	0.00	97.00	1.25	1.03	0.00
47.00	1.25	1.03	0.00	98.00	1.25	1.03	0.00
48.00	1.25	1.03	0.00	99.00	1.25	1.03	0.00
49.00	1.25	1.03	0.00	100.00	1.25	1.03	0.00
50.00	1.25	1.03	0.00				

Summary for Subcatchment 52S: P-400 IMP

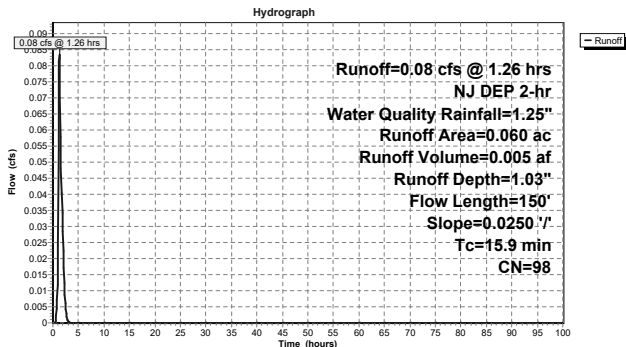
Runoff = 0.08 cfs @ 1.26 hrs, Volume= 0.005 af, Depth= 1.03"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
0.060	98	Unconnected pavement
0.060		100.00% Impervious Area
0.060		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 52S: P-400 IMP



Hydrograph for Subcatchment 52S: P-400 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	1.03	0.00
1.00	0.63	0.43	0.02	52.00	1.25	1.03	0.00
2.00	1.25	1.03	0.02	53.00	1.25	1.03	0.00
3.00	1.25	1.03	0.00	54.00	1.25	1.03	0.00
4.00	1.25	1.03	0.00	55.00	1.25	1.03	0.00
5.00	1.25	1.03	0.00	56.00	1.25	1.03	0.00
6.00	1.25	1.03	0.00	57.00	1.25	1.03	0.00
7.00	1.25	1.03	0.00	58.00	1.25	1.03	0.00
8.00	1.25	1.03	0.00	59.00	1.25	1.03	0.00
9.00	1.25	1.03	0.00	60.00	1.25	1.03	0.00
10.00	1.25	1.03	0.00	61.00	1.25	1.03	0.00
11.00	1.25	1.03	0.00	62.00	1.25	1.03	0.00
12.00	1.25	1.03	0.00	63.00	1.25	1.03	0.00
13.00	1.25	1.03	0.00	64.00	1.25	1.03	0.00
14.00	1.25	1.03	0.00	65.00	1.25	1.03	0.00
15.00	1.25	1.03	0.00	66.00	1.25	1.03	0.00
16.00	1.25	1.03	0.00	67.00	1.25	1.03	0.00
17.00	1.25	1.03	0.00	68.00	1.25	1.03	0.00
18.00	1.25	1.03	0.00	69.00	1.25	1.03	0.00
19.00	1.25	1.03	0.00	70.00	1.25	1.03	0.00
20.00	1.25	1.03	0.00	71.00	1.25	1.03	0.00
21.00	1.25	1.03	0.00	72.00	1.25	1.03	0.00
22.00	1.25	1.03	0.00	73.00	1.25	1.03	0.00
23.00	1.25	1.03	0.00	74.00	1.25	1.03	0.00
24.00	1.25	1.03	0.00	75.00	1.25	1.03	0.00
25.00	1.25	1.03	0.00	76.00	1.25	1.03	0.00
26.00	1.25	1.03	0.00	77.00	1.25	1.03	0.00
27.00	1.25	1.03	0.00	78.00	1.25	1.03	0.00
28.00	1.25	1.03	0.00	79.00	1.25	1.03	0.00
29.00	1.25	1.03	0.00	80.00	1.25	1.03	0.00
30.00	1.25	1.03	0.00	81.00	1.25	1.03	0.00
31.00	1.25	1.03	0.00	82.00	1.25	1.03	0.00
32.00	1.25	1.03	0.00	83.00	1.25	1.03	0.00
33.00	1.25	1.03	0.00	84.00	1.25	1.03	0.00
34.00	1.25	1.03	0.00	85.00	1.25	1.03	0.00
35.00	1.25	1.03	0.00	86.00	1.25	1.03	0.00
36.00	1.25	1.03	0.00	87.00	1.25	1.03	0.00
37.00	1.25	1.03	0.00	88.00	1.25	1.03	0.00
38.00	1.25	1.03	0.00	89.00	1.25	1.03	0.00
39.00	1.25	1.03	0.00	90.00	1.25	1.03	0.00
40.00	1.25	1.03	0.00	91.00	1.25	1.03	0.00
41.00	1.25	1.03	0.00	92.00	1.25	1.03	0.00
42.00	1.25	1.03	0.00	93.00	1.25	1.03	0.00
43.00	1.25	1.03	0.00	94.00	1.25	1.03	0.00
44.00	1.25	1.03	0.00	95.00	1.25	1.03	0.00
45.00	1.25	1.03	0.00	96.00	1.25	1.03	0.00
46.00	1.25	1.03	0.00	97.00	1.25	1.03	0.00
47.00	1.25	1.03	0.00	98.00	1.25	1.03	0.00
48.00	1.25	1.03	0.00	99.00	1.25	1.03	0.00
49.00	1.25	1.03	0.00	100.00	1.25	1.03	0.00
50.00	1.25	1.03	0.00				

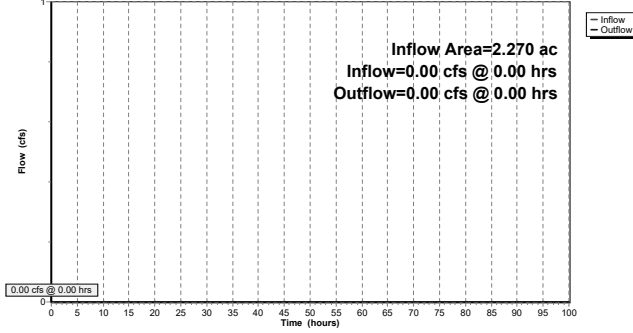
Summary for Reach 6R: E-100

Inflow Area = 2.270 ac, 0.00% Impervious, Inflow Depth = 0.00" for Water Quality event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 6R: E-100

Hydrograph



Hydrograph for Reach 6R: E-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

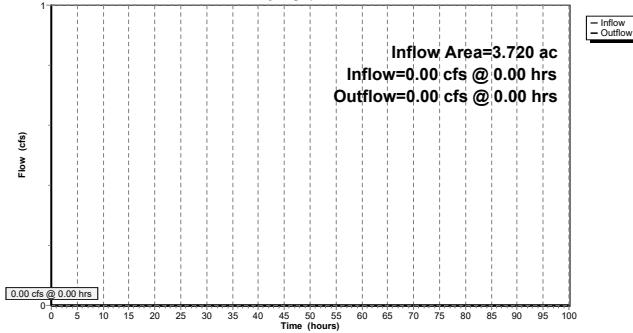
Summary for Reach 7R: E-200

Inflow Area = 3.720 ac, 0.00% Impervious, Inflow Depth = 0.00" for Water Quality event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 7R: E-200

Hydrograph



Hydrograph for Reach 7R: E-200

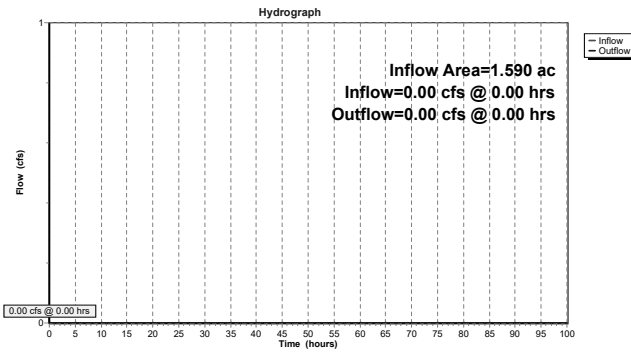
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 8R: E-300

Inflow Area = 1.590 ac, 0.00% Impervious, Inflow Depth = 0.00" for Water Quality event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 8R: E-300



Hydrograph for Reach 8R: E-300

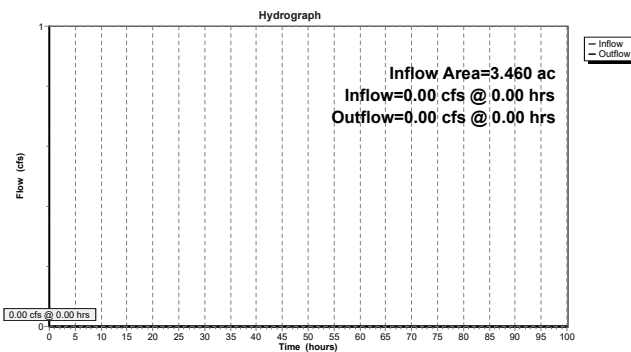
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 22R: E-400

Inflow Area = 3.460 ac, 0.00% Impervious, Inflow Depth = 0.00" for Water Quality event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 22R: E-400



Hydrograph for Reach 22R: E-400

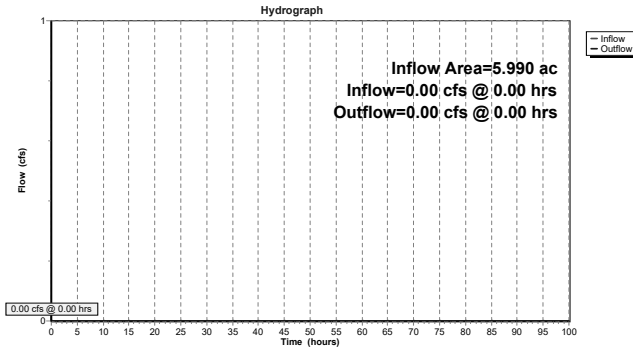
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 23R: E-POA "A"

Inflow Area = 5.990 ac, 0.00% Impervious, Inflow Depth = 0.00" for Water Quality event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 23R: E-POA "A"



Hydrograph for Reach 23R: E-POA "A"

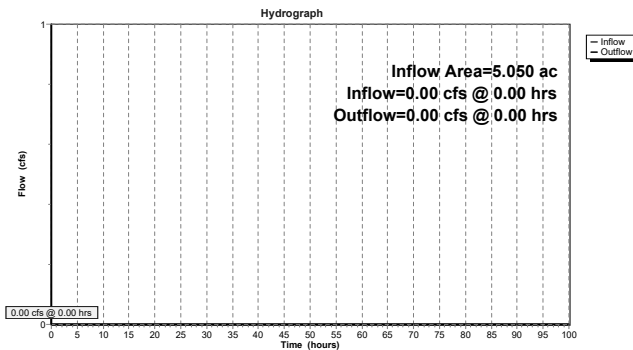
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 25R: E-POA "B"

Inflow Area = 5.050 ac, 0.00% Impervious, Inflow Depth = 0.00" for Water Quality event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 25R: E-POA "B"



Hydrograph for Reach 25R: E-POA "B"

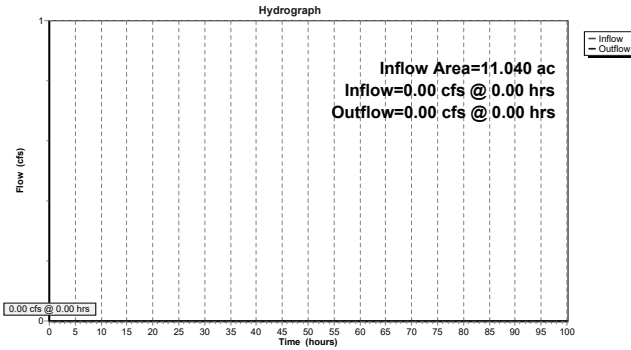
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 26R: E-POA

Inflow Area = 11.040 ac, 0.00% Impervious, Inflow Depth = 0.00" for Water Quality event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 26R: E-POA



Hydrograph for Reach 26R: E-POA

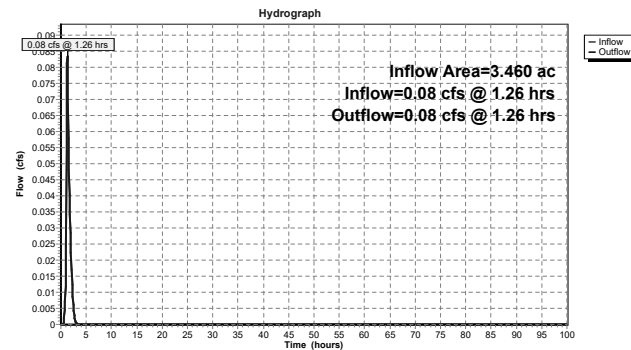
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 38R: P-400

Inflow Area = 3.460 ac, 1.73% Impervious, Inflow Depth = 0.02" for Water Quality event
 Inflow = 0.08 cfs @ 1.26 hrs, Volume= 0.005 af
 Outflow = 0.08 cfs @ 1.26 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 38R: P-400



Hydrograph for Reach 38R: P-400

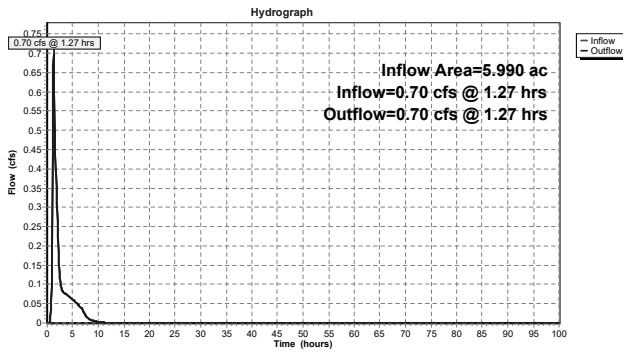
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.02		0.02	52.00	0.00		0.00
2.00	0.02		0.02	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 39R: P-POA "A"

Inflow Area = 5.990 ac, 17.36% Impervious, Inflow Depth = 0.15" for Water Quality event
 Inflow = 0.70 cfs @ 1.27 hrs, Volume= 0.075 af
 Outflow = 0.70 cfs @ 1.27 hrs, Volume= 0.075 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 39R: P-POA "A"



Hydrograph for Reach 39R: P-POA "A"

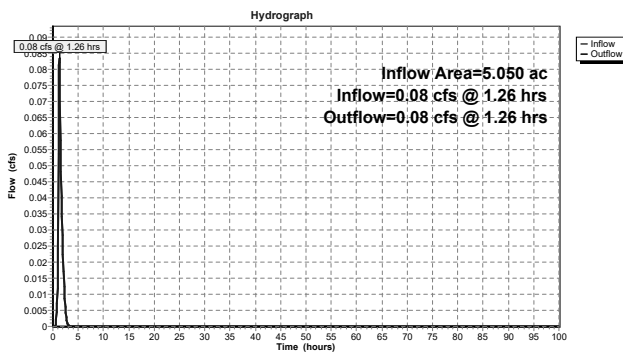
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.19		0.19	52.00	0.00		0.00
2.00	0.26		0.26	53.00	0.00		0.00
3.00	0.08		0.08	54.00	0.00		0.00
4.00	0.07		0.07	55.00	0.00		0.00
5.00	0.06		0.06	56.00	0.00		0.00
6.00	0.05		0.05	57.00	0.00		0.00
7.00	0.03		0.03	58.00	0.00		0.00
8.00	0.01		0.01	59.00	0.00		0.00
9.00	0.01		0.01	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 40R: P-POA "B"

Inflow Area = 5.050 ac, 1.98% Impervious, Inflow Depth = 0.01" for Water Quality event
 Inflow = 0.08 cfs @ 1.26 hrs, Volume= 0.005 af
 Outflow = 0.08 cfs @ 1.26 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 40R: P-POA "B"



Hydrograph for Reach 40R: P-POA "B"

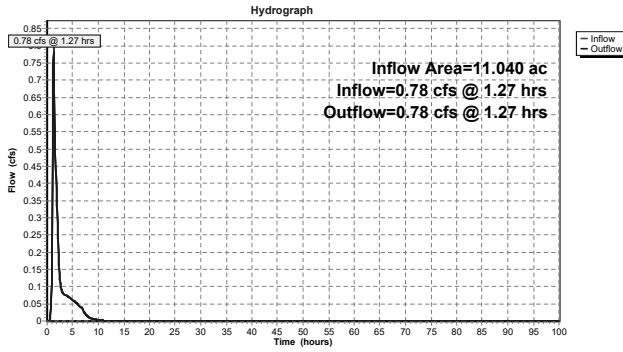
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.02		0.02	52.00	0.00		0.00
2.00	0.02		0.02	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 41R: P-POA

Inflow Area = 11.040 ac, 10.33% Impervious, Inflow Depth = 0.09" for Water Quality event
 Inflow = 0.78 cfs @ 1.27 hrs, Volume= 0.080 af
 Outflow = 0.78 cfs @ 1.27 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 41R: P-POA



Hydrograph for Reach 41R: P-POA

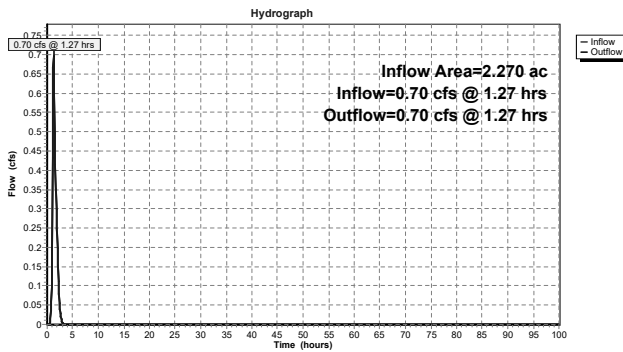
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.22		0.22	52.00	0.00		0.00
2.00	0.29		0.29	53.00	0.00		0.00
3.00	0.08		0.08	54.00	0.00		0.00
4.00	0.07		0.07	55.00	0.00		0.00
5.00	0.06		0.06	56.00	0.00		0.00
6.00	0.05		0.05	57.00	0.00		0.00
7.00	0.03		0.03	58.00	0.00		0.00
8.00	0.01		0.01	59.00	0.00		0.00
9.00	0.01		0.01	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 46R: P-100

Inflow Area = 2.270 ac, 22.47% Impervious, Inflow Depth = 0.23" for Water Quality event
 Inflow = 0.70 cfs @ 1.27 hrs, Volume= 0.044 af
 Outflow = 0.70 cfs @ 1.27 hrs, Volume= 0.044 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 46R: P-100



Hydrograph for Reach 46R: P-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.19		0.19	52.00	0.00		0.00
2.00	0.20		0.20	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Pond 43P: P-200 Station 1450 Culvert

Inflow Area = 3.720 ac, 14.25% Impervious, Inflow Depth = 0.15" for Water Quality event
 Inflow = 0.47 cfs @ 1.46 hrs, Volume= 0.046 af
 Outflow = 0.08 cfs @ 2.90 hrs, Volume= 0.036 af, Atten= 83%, Lag= 86.2 min
 Discarded = 0.00 cfs @ 2.90 hrs, Volume= 0.006 af
 Primary = 0.08 cfs @ 2.90 hrs, Volume= 0.031 af

Routing by Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 146.84' @ 2.90 hrs Surf.Area= 3,204 sf Storage= 1,524 cf

Plug-Flow detention time= 586.6 min calculated for 0.036 af (79% of inflow)
 Center-of-Mass det. time= 571.7 min (684.9 - 113.2)

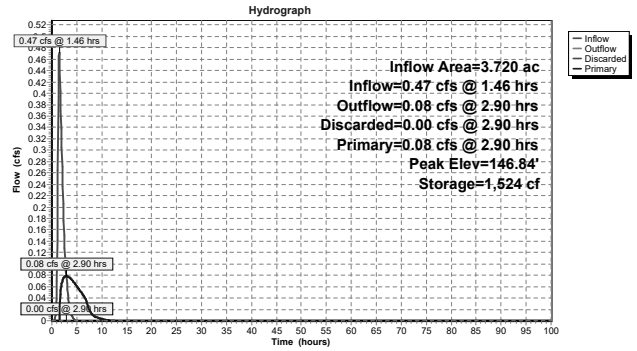
Volume	Invert	Avail.Storage	Storage Description
#1	143.50'	30,636 cf	Custom Stage Data (Prismatic), Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.50	4	0	0
145.58	10	15	15
146.00	245	54	68
147.00	3,750	1,998	2,066
148.00	13,020	8,385	10,451
149.00	27,350	20,185	30,636

Device	Routing	Invert	Outlet Devices
#1	Discarded	143.50'	1,000 in/hr Exfiltration over Surface area below 145.60' Conductivity to Groundwater Elevation = 140.00'
#2	Primary	146.50'	2.0" x 2.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 2	145.58'	12.0" Round Culvert L= 60.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 145.58' / 145.00' S= 0.0097' / Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

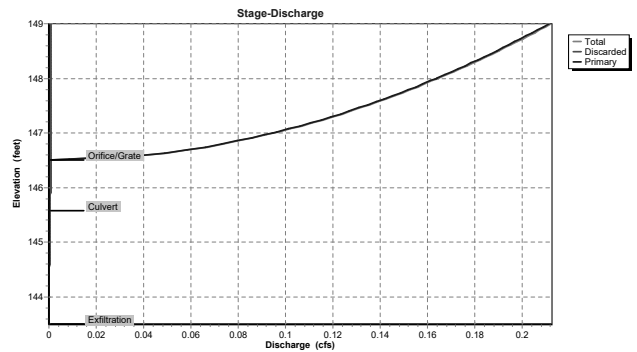
Discarded OutFlow Max=0.00 cfs @ 2.90 hrs HW=146.84' (Free Discharge)
 1=Exfiltration (Controls 0.00 cfs)

Primary OutFlow Max=0.08 cfs @ 2.90 hrs HW=146.84' (Free Discharge)
 2=Orifice/Grate (Orifice Controls 0.08 cfs @ 2.82 fps)
 3=Culvert (Passes 0.08 cfs of 2.07 cfs potential flow)

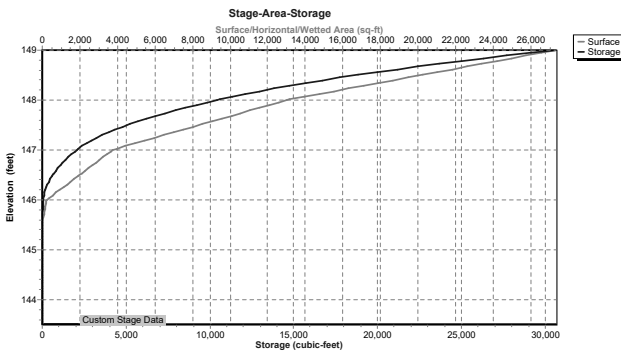
Pond 43P: P-200 Station 1450 Culvert



Pond 43P: P-200 Station 1450 Culvert



Pond 43P: P-200 Station 1450 Culvert



Hydrograph for Pond 43P: P-200 Station 1450 Culvert

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	143.50	0.00	0.00	0.00
2.00	0.30	1,208	146.74	0.07	0.00	0.07
4.00	0.01	1,350	146.79	0.07	0.00	0.07
6.00	0.00	920	146.63	0.05	0.00	0.05
8.00	0.00	695	146.53	0.01	0.00	0.01
10.00	0.00	645	146.51	0.00	0.00	0.00
12.00	0.00	631	146.50	0.00	0.00	0.00
14.00	0.00	626	146.50	0.00	0.00	0.00
16.00	0.00	621	146.50	0.00	0.00	0.00
18.00	0.00	616	146.49	0.00	0.00	0.00
20.00	0.00	611	146.49	0.00	0.00	0.00
22.00	0.00	606	146.49	0.00	0.00	0.00
24.00	0.00	601	146.49	0.00	0.00	0.00
26.00	0.00	596	146.48	0.00	0.00	0.00
28.00	0.00	592	146.48	0.00	0.00	0.00
30.00	0.00	587	146.48	0.00	0.00	0.00
32.00	0.00	582	146.48	0.00	0.00	0.00
34.00	0.00	577	146.47	0.00	0.00	0.00
36.00	0.00	572	146.47	0.00	0.00	0.00
38.00	0.00	567	146.47	0.00	0.00	0.00
40.00	0.00	563	146.47	0.00	0.00	0.00
42.00	0.00	558	146.46	0.00	0.00	0.00
44.00	0.00	553	146.46	0.00	0.00	0.00
46.00	0.00	548	146.46	0.00	0.00	0.00
48.00	0.00	543	146.45	0.00	0.00	0.00
50.00	0.00	538	146.45	0.00	0.00	0.00
52.00	0.00	534	146.45	0.00	0.00	0.00
54.00	0.00	529	146.45	0.00	0.00	0.00
56.00	0.00	524	146.44	0.00	0.00	0.00
58.00	0.00	519	146.44	0.00	0.00	0.00
60.00	0.00	514	146.44	0.00	0.00	0.00
62.00	0.00	510	146.44	0.00	0.00	0.00
64.00	0.00	505	146.43	0.00	0.00	0.00
66.00	0.00	500	146.43	0.00	0.00	0.00
68.00	0.00	495	146.43	0.00	0.00	0.00
70.00	0.00	490	146.43	0.00	0.00	0.00
72.00	0.00	486	146.42	0.00	0.00	0.00
74.00	0.00	481	146.42	0.00	0.00	0.00
76.00	0.00	476	146.42	0.00	0.00	0.00
78.00	0.00	471	146.41	0.00	0.00	0.00
80.00	0.00	466	146.41	0.00	0.00	0.00
82.00	0.00	462	146.41	0.00	0.00	0.00
84.00	0.00	457	146.41	0.00	0.00	0.00
86.00	0.00	452	146.40	0.00	0.00	0.00
88.00	0.00	447	146.40	0.00	0.00	0.00
90.00	0.00	442	146.40	0.00	0.00	0.00
92.00	0.00	438	146.39	0.00	0.00	0.00
94.00	0.00	433	146.39	0.00	0.00	0.00
96.00	0.00	428	146.39	0.00	0.00	0.00
98.00	0.00	423	146.38	0.00	0.00	0.00
100.00	0.00	419	146.38	0.00	0.00	0.00

Stage-Discharge for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
143.50	0.00	0.00	0.00	148.60	0.19	0.00	0.19
143.60	0.00	0.00	0.00	148.70	0.20	0.00	0.20
143.70	0.00	0.00	0.00	148.80	0.20	0.00	0.20
143.80	0.00	0.00	0.00	148.90	0.21	0.00	0.21
143.90	0.00	0.00	0.00	149.00	0.21	0.00	0.21
144.00	0.00	0.00	0.00				
144.10	0.00	0.00	0.00				
144.20	0.00	0.00	0.00				
144.30	0.00	0.00	0.00				
144.40	0.00	0.00	0.00				
144.50	0.00	0.00	0.00				
144.60	0.00	0.00	0.00				
144.70	0.00	0.00	0.00				
144.80	0.00	0.00	0.00				
144.90	0.00	0.00	0.00				
145.00	0.00	0.00	0.00				
145.10	0.00	0.00	0.00				
145.20	0.00	0.00	0.00				
145.30	0.00	0.00	0.00				
145.40	0.00	0.00	0.00				
145.50	0.00	0.00	0.00				
145.60	0.00	0.00	0.00				
145.70	0.00	0.00	0.00				
145.80	0.00	0.00	0.00				
145.90	0.00	0.00	0.00				
146.00	0.00	0.00	0.00				
146.10	0.00	0.00	0.00				
146.20	0.00	0.00	0.00				
146.30	0.00	0.00	0.00				
146.40	0.00	0.00	0.00				
146.50	0.00	0.00	0.00				
146.60	0.04	0.00	0.04				
146.70	0.06	0.00	0.06				
146.80	0.07	0.00	0.07				
146.90	0.09	0.00	0.08				
147.00	0.10	0.00	0.09				
147.10	0.10	0.00	0.10				
147.20	0.11	0.00	0.11				
147.30	0.12	0.00	0.12				
147.40	0.13	0.00	0.13				
147.50	0.13	0.00	0.13				
147.60	0.14	0.00	0.14				
147.70	0.15	0.00	0.15				
147.80	0.15	0.00	0.15				
147.90	0.16	0.00	0.16				
148.00	0.16	0.00	0.16				
148.10	0.17	0.00	0.17				
148.20	0.18	0.00	0.17				
148.30	0.18	0.00	0.18				
148.40	0.19	0.00	0.18				
148.50	0.19	0.00	0.19				

Stage-Area-Storage for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
143.50	4	0	148.60	21,618	20,842
143.60	4	0	148.70	23,051	23,075
143.70	5	1	148.80	24,484	25,452
143.80	5	1	148.90	25,917	27,972
143.90	5	2	149.00	27,350	30,636
144.00	5	2			
144.10	6	3			
144.20	6	4			
144.30	6	4			
144.40	7	5			
144.50	7	5			
144.60	7	6			
144.70	7	7			
144.80	8	8			
144.90	8	8			
145.00	8	9			
145.10	9	10			
145.20	9	11			
145.30	9	12			
145.40	9	13			
145.50	10	14			
145.60	21	15			
145.70	77	20			
145.80	133	30			
145.90	189	46			
146.00	245	68			
146.10	595	110			
146.20	946	187			
146.30	1,297	299			
146.40	1,647	447			
146.50	1,998	629			
146.60	2,348	846			
146.70	2,698	1,098			
146.80	3,049	1,386			
146.90	3,400	1,708			
147.00	3,750	2,066			
147.10	4,677	2,487			
147.20	5,604	3,001			
147.30	6,531	3,608			
147.40	7,458	4,307			
147.50	8,385	5,099			
147.60	9,312	5,984			
147.70	10,239	6,962			
147.80	11,166	8,032			
147.90	12,093	9,195			
148.00	13,020	10,451			
148.10	14,453	11,824			
148.20	15,886	13,341			
148.30	17,319	15,001			
148.40	18,752	16,805			
148.50	20,185	18,752			

Summary for Pond 44P: P-300 Rainwater Garden

Inflow Area = 1.590 ac, 2.52% Impervious, Inflow Depth = 0.03" for Water Quality event
 Inflow = 0.03 cfs @ 1.58 hrs, Volume= 0.003 af
 Outflow = 0.03 cfs @ 1.87 hrs, Volume= 0.003 af, Atten= 13%, Lag= 17.5 min
 Discarded = 0.03 cfs @ 1.87 hrs, Volume= 0.003 af
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 147.01' @ 1.87 hrs Surf.Area= 3,408 sf Storage= 22 cf

Plug-Flow detention time= 14.3 min calculated for 0.003 af (100% of inflow)
 Center-of-Mass det. time= 14.3 min (140.7 - 126.4)

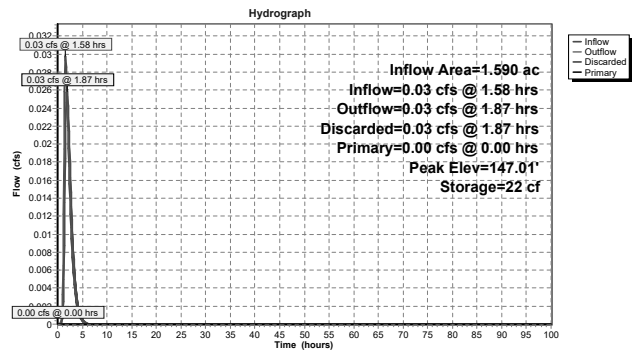
Volume	Invert	Avail.Storage	Storage Description
#1	147.00'	8,800 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.00	3,400	0	0
148.00	4,600	4,000	4,000
149.00	5,000	4,800	8,800

Device	Routing	Invert	Outlet Devices
#1	Discarded	147.00'	1,000 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 140.00'
#2	Primary	147.16'	Asymmetrical Weir, C= 3.27 Offset (feet) 1,100.00 1,150.00 1,200.00 1,255.00 Elev. (feet) 148.00 147.16 147.91 148.00

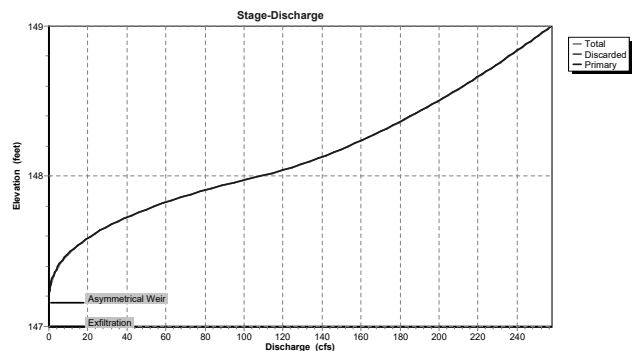
Discarded OutFlow Max=0.08 cfs @ 1.87 hrs HW=147.01' (Free Discharge)
 1=Exfiltration (Controls 0.08 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=147.00' (Free Discharge)
 2=Asymmetrical Weir (Controls 0.00 cfs)

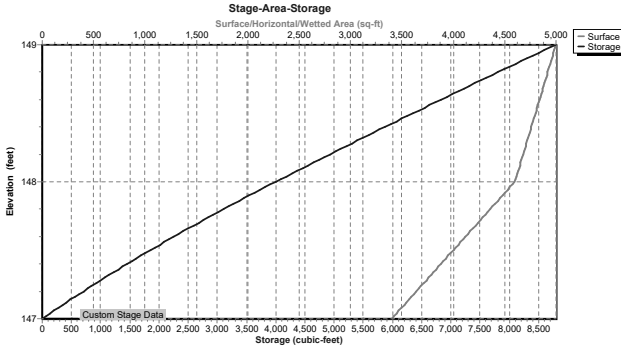
Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Hydrograph for Pond 44P: P-300 Rainwater Garden

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	147.00	0.00	0.00	0.00
2.00	0.02	22	147.01	0.03	0.03	0.00
4.00	0.00	2	147.00	0.00	0.00	0.00
6.00	0.00	0	147.00	0.00	0.00	0.00
8.00	0.00	0	147.00	0.00	0.00	0.00
10.00	0.00	0	147.00	0.00	0.00	0.00
12.00	0.00	0	147.00	0.00	0.00	0.00
14.00	0.00	0	147.00	0.00	0.00	0.00
16.00	0.00	0	147.00	0.00	0.00	0.00
18.00	0.00	0	147.00	0.00	0.00	0.00
20.00	0.00	0	147.00	0.00	0.00	0.00
22.00	0.00	0	147.00	0.00	0.00	0.00
24.00	0.00	0	147.00	0.00	0.00	0.00
26.00	0.00	0	147.00	0.00	0.00	0.00
28.00	0.00	0	147.00	0.00	0.00	0.00
30.00	0.00	0	147.00	0.00	0.00	0.00
32.00	0.00	0	147.00	0.00	0.00	0.00
34.00	0.00	0	147.00	0.00	0.00	0.00
36.00	0.00	0	147.00	0.00	0.00	0.00
38.00	0.00	0	147.00	0.00	0.00	0.00
40.00	0.00	0	147.00	0.00	0.00	0.00
42.00	0.00	0	147.00	0.00	0.00	0.00
44.00	0.00	0	147.00	0.00	0.00	0.00
46.00	0.00	0	147.00	0.00	0.00	0.00
48.00	0.00	0	147.00	0.00	0.00	0.00
50.00	0.00	0	147.00	0.00	0.00	0.00
52.00	0.00	0	147.00	0.00	0.00	0.00
54.00	0.00	0	147.00	0.00	0.00	0.00
56.00	0.00	0	147.00	0.00	0.00	0.00
58.00	0.00	0	147.00	0.00	0.00	0.00
60.00	0.00	0	147.00	0.00	0.00	0.00
62.00	0.00	0	147.00	0.00	0.00	0.00
64.00	0.00	0	147.00	0.00	0.00	0.00
66.00	0.00	0	147.00	0.00	0.00	0.00
68.00	0.00	0	147.00	0.00	0.00	0.00
70.00	0.00	0	147.00	0.00	0.00	0.00
72.00	0.00	0	147.00	0.00	0.00	0.00
74.00	0.00	0	147.00	0.00	0.00	0.00
76.00	0.00	0	147.00	0.00	0.00	0.00
78.00	0.00	0	147.00	0.00	0.00	0.00
80.00	0.00	0	147.00	0.00	0.00	0.00
82.00	0.00	0	147.00	0.00	0.00	0.00
84.00	0.00	0	147.00	0.00	0.00	0.00
86.00	0.00	0	147.00	0.00	0.00	0.00
88.00	0.00	0	147.00	0.00	0.00	0.00
90.00	0.00	0	147.00	0.00	0.00	0.00
92.00	0.00	0	147.00	0.00	0.00	0.00
94.00	0.00	0	147.00	0.00	0.00	0.00
96.00	0.00	0	147.00	0.00	0.00	0.00
98.00	0.00	0	147.00	0.00	0.00	0.00
100.00	0.00	0	147.00	0.00	0.00	0.00

Stage-Discharge for Pond 44P: P-300 Rainwater Garden

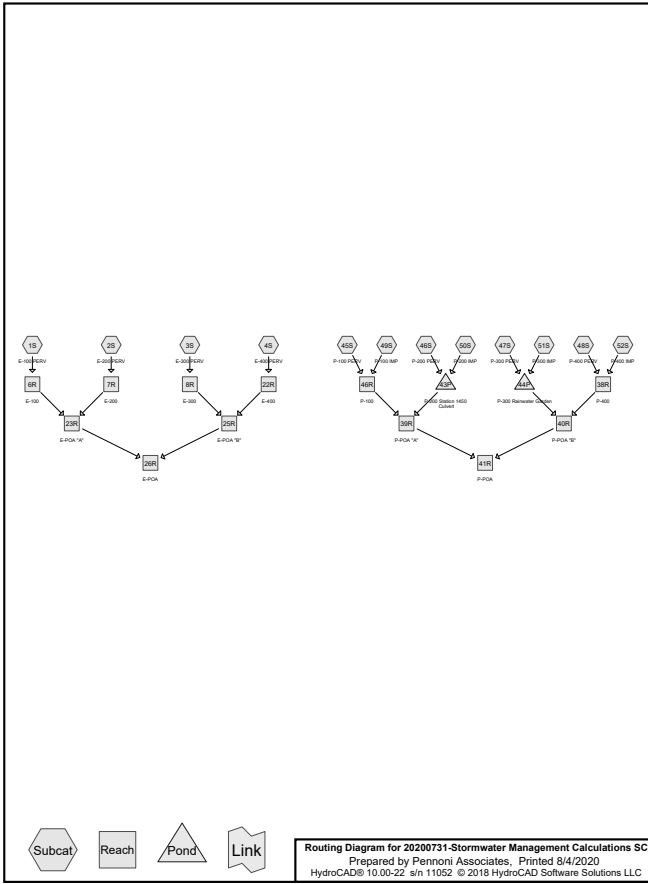
Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
147.00	0.00	0.00	0.00	148.02	114.70	0.12	114.58
147.02	0.08	0.08	0.00	148.04	120.03	0.12	119.91
147.04	0.08	0.08	0.00	148.06	124.94	0.12	124.82
147.06	0.08	0.08	0.00	148.08	129.55	0.12	129.43
147.08	0.08	0.08	0.00	148.10	133.93	0.12	133.81
147.10	0.08	0.08	0.00	148.12	138.11	0.12	137.99
147.12	0.08	0.08	0.00	148.14	142.13	0.12	142.01
147.14	0.08	0.08	0.00	148.16	146.01	0.12	145.89
147.16	0.08	0.08	0.00	148.18	149.77	0.12	149.64
147.18	0.10	0.09	0.01	148.20	153.41	0.12	153.29
147.20	0.14	0.09	0.05	148.22	156.95	0.12	156.83
147.22	0.23	0.09	0.15	148.24	160.40	0.13	160.28
147.24	0.39	0.09	0.30	148.26	163.77	0.13	163.65
147.26	0.61	0.09	0.52	148.28	167.06	0.13	166.93
147.28	0.91	0.09	0.82	148.30	170.28	0.13	170.15
147.30	1.30	0.09	1.21	148.32	173.43	0.13	173.30
147.32	1.78	0.09	1.69	148.34	176.51	0.13	176.39
147.34	2.36	0.09	2.27	148.36	179.54	0.13	179.41
147.36	3.05	0.09	2.95	148.38	182.52	0.13	182.39
147.38	3.84	0.09	3.75	148.40	185.44	0.13	185.31
147.40	4.75	0.09	4.66	148.42	188.31	0.13	188.18
147.42	5.78	0.10	5.69	148.44	191.14	0.13	191.01
147.44	6.94	0.10	6.85	148.46	193.92	0.13	193.79
147.46	8.23	0.10	8.14	148.48	196.66	0.13	196.53
147.48	9.66	0.10	9.56	148.50	199.36	0.13	199.23
147.50	11.22	0.10	11.13	148.52	202.02	0.13	201.89
147.52	12.93	0.10	12.83	148.54	204.64	0.13	204.51
147.54	14.79	0.10	14.69	148.56	207.23	0.13	207.10
147.56	16.80	0.10	16.70	148.58	209.79	0.13	209.65
147.58	18.97	0.10	18.87	148.60	212.31	0.13	212.18
147.60	21.30	0.10	21.20	148.62	214.80	0.13	214.67
147.62	23.79	0.10	23.69	148.64	217.27	0.14	217.13
147.64	26.45	0.10	26.35	148.66	219.70	0.14	219.56
147.66	29.28	0.11	29.18	148.68	222.10	0.14	221.97
147.68	32.29	0.11	32.18	148.70	224.48	0.14	224.35
147.70	35.48	0.11	35.37	148.72	226.84	0.14	226.70
147.72	38.84	0.11	38.74	148.74	229.16	0.14	229.03
147.74	42.40	0.11	42.29	148.76	231.47	0.14	231.33
147.76	46.14	0.11	46.03	148.78	233.75	0.14	233.61
147.78	50.07	0.11	49.96	148.80	236.00	0.14	235.86
147.80	54.20	0.11	54.09	148.82	238.24	0.14	238.10
147.82	58.52	0.11	58.41	148.84	240.45	0.14	240.31
147.84	63.05	0.11	62.94	148.86	242.65	0.14	242.51
147.86	67.78	0.11	67.67	148.88	244.82	0.14	244.68
147.88	72.72	0.11	72.60	148.90	246.97	0.14	246.83
147.90	77.87	0.12	77.75	148.92	249.11	0.14	248.96
147.92	83.24	0.12	83.12	148.94	251.22	0.14	251.08
147.94	88.92	0.12	88.80	148.96	253.32	0.14	253.17
147.96	95.00	0.12	94.88	148.98	255.40	0.14	255.25
147.98	101.54	0.12	101.42	149.00	257.46	0.14	257.32
148.00	108.59	0.12	108.47				

Stage-Area-Storage for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.00	3,400	0	148.02	4,608	4,092
147.02	3,424	68	148.04	4,616	4,184
147.04	3,448	137	148.06	4,624	4,277
147.06	3,472	206	148.08	4,632	4,369
147.08	3,496	276	148.10	4,640	4,462
147.10	3,520	346	148.12	4,648	4,555
147.12	3,544	417	148.14	4,656	4,648
147.14	3,568	488	148.16	4,664	4,741
147.16	3,592	559	148.18	4,672	4,834
147.18	3,616	631	148.20	4,680	4,928
147.20	3,640	704	148.22	4,688	5,022
147.22	3,664	777	148.24	4,696	5,116
147.24	3,688	851	148.26	4,704	5,210
147.26	3,712	925	148.28	4,712	5,304
147.28	3,736	999	148.30	4,720	5,398
147.30	3,760	1,074	148.32	4,728	5,492
147.32	3,784	1,149	148.34	4,736	5,587
147.34	3,808	1,225	148.36	4,744	5,682
147.36	3,832	1,302	148.38	4,752	5,777
147.38	3,856	1,379	148.40	4,760	

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
1.830	39	>75% Grass cover, Good, HSG A (46S, 47S, 48S)
6.090	61	>75% Grass cover, Good, HSG B (1S, 2S, 45S, 46S, 47S)
1.920	39	Pasture/grassland/range, Good, HSG A (3S, 4S)
0.190	61	Pasture/grassland/range, Good, HSG B (3S)
1.140	98	Unconnected pavement (49S, 50S, 51S, 52S)
3.910	30	Woods, Good, HSG A (2S, 3S, 4S, 47S, 48S)
7.000	55	Woods, Good, HSG B (1S, 2S, 3S, 4S, 45S, 46S, 47S, 48S)
22.080	52	TOTAL AREA



Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
7.660	HSG A	2S, 3S, 4S, 46S, 47S, 48S
13.280	HSG B	1S, 2S, 3S, 4S, 45S, 46S, 47S, 48S
0.000	HSG C	
0.000	HSG D	
1.140	Other	49S, 50S, 51S, 52S
22.080		TOTAL AREA

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
1.830	6.090	0.000	0.000	0.000	7.920	>75% Grass cover, Good	1S , 2S , 45 , 46 , 47 , 48 , 49 , 50 , 51 , 52 , S
1.920	0.190	0.000	0.000	0.000	2.110	Pasture/grassland/range, Good	3S , 4S
0.000	0.000	0.000	0.000	1.140	1.140	Unconnected pavement	49 , 50 , 51 , 52 , S
3.910	7.000	0.000	0.000	0.000	10.910	Woods, Good	1S , 2S , 3S , 4S , 45 , 46 , 47 , 48 , S
7.660	13.280	0.000	0.000	1.140	22.080	TOTAL AREA	

Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Diam/Width (inches)	Height (inches)	Inside-Fill (inches)
1	43P	145.58	145.00	60.0	0.0097	0.013	12.0	0.0	0.0

Notes Listing (all nodes)

Line#	Node Number	Notes
1	Project	Predevelopment and Post Development Drainage Analysis
2		MTSPX20052 Owens Dog Park

Time span=0.00-100.00 hrs, dt=0.10 hrs, 1001 points
 Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: E-100 PERV	Runoff Area=2.270 ac 0.00% Impervious Runoff Depth=0.45" Flow Length=610' Tc=16.5 min CN=60 Runoff=0.40 cfs 0.085 af
Subcatchment2S: E-200 PERV	Runoff Area=3.720 ac 0.00% Impervious Runoff Depth=0.34" Flow Length=373' Tc=31.5 min CN=57 Runoff=0.30 cfs 0.107 af
Subcatchment3S: E-300 PERV	Runoff Area=1.590 ac 0.00% Impervious Runoff Depth=0.07" Flow Length=300' Slope=0.0100 '/' Tc=40.2 min CN=46 Runoff=0.01 cfs 0.009 af
Subcatchment4S: E-400 PERV	Runoff Area=3.460 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=150' Slope=0.0250 '/' Tc=15.9 min CN=36 Runoff=0.00 cfs 0.000 af
Subcatchment45S: P-100 PERV	Runoff Area=1.760 ac 0.00% Impervious Runoff Depth=0.49" Flow Length=610' Tc=16.5 min CN=61 Runoff=0.35 cfs 0.071 af
Subcatchment46S: P-200 PERV	Runoff Area=3.190 ac 0.00% Impervious Runoff Depth=0.34" Flow Length=373' Tc=31.5 min CN=57 Runoff=0.26 cfs 0.091 af
Subcatchment47S: P-300 PERV	Runoff Area=1.550 ac 0.00% Impervious Runoff Depth=0.07" Flow Length=300' Slope=0.0100 '/' Tc=40.2 min CN=46 Runoff=0.01 cfs 0.009 af
Subcatchment48S: P-400 PERV	Runoff Area=3.400 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=150' Slope=0.0250 '/' Tc=15.9 min CN=36 Runoff=0.00 cfs 0.000 af
Subcatchment49S: P-100 IMP	Runoff Area=0.510 ac 100.00% Impervious Runoff Depth=3.07" Flow Length=610' Tc=16.5 min CN=98 Runoff=0.86 cfs 0.130 af
Subcatchment50S: P-200 IMP	Runoff Area=0.530 ac 100.00% Impervious Runoff Depth=3.07" Flow Length=373' Tc=31.5 min CN=98 Runoff=0.65 cfs 0.135 af
Subcatchment51S: P-300 IMP	Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=3.07" Flow Length=300' Slope=0.0100 '/' Tc=40.2 min CN=98 Runoff=0.04 cfs 0.010 af
Subcatchment52S: P-400 IMP	Runoff Area=0.060 ac 100.00% Impervious Runoff Depth=3.07" Flow Length=150' Slope=0.0250 '/' Tc=15.9 min CN=98 Runoff=0.10 cfs 0.015 af

Reach 6R: E-100	Inflow=0.40 cfs 0.085 af Outflow=0.40 cfs 0.085 af
Reach 7R: E-200	Inflow=0.30 cfs 0.107 af Outflow=0.30 cfs 0.107 af
Reach 8R: E-300	Inflow=0.01 cfs 0.009 af Outflow=0.01 cfs 0.009 af
Reach 22R: E-400	Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Reach 23R: E-POA "A"	Inflow=0.66 cfs 0.191 af Outflow=0.66 cfs 0.191 af
Reach 25R: E-POA "B"	Inflow=0.01 cfs 0.009 af Outflow=0.01 cfs 0.009 af
Reach 26R: E-POA	Inflow=0.66 cfs 0.201 af Outflow=0.66 cfs 0.201 af
Reach 38R: P-400	Inflow=0.10 cfs 0.015 af Outflow=0.10 cfs 0.015 af
Reach 39R: P-POA "A"	Inflow=1.24 cfs 0.414 af Outflow=1.24 cfs 0.414 af
Reach 40R: P-POA "B"	Inflow=0.10 cfs 0.022 af Outflow=0.10 cfs 0.022 af
Reach 41R: P-POA	Inflow=1.34 cfs 0.436 af Outflow=1.34 cfs 0.436 af
Reach 46R: P-100	Inflow=1.17 cfs 0.202 af Outflow=1.17 cfs 0.202 af
Pond 43P: P-200 Station 1450 Culvert	Peak Elev=147.43' Storage=4,549 cf Inflow=0.87 cfs 0.227 af Discarded=0.00 cfs 0.000 af Primary=0.12 cfs 0.212 af Outflow=0.12 cfs 0.212 af
Pond 44P: P-300 Rainwater Garden	Peak Elev=147.16' Storage=560 cf Inflow=0.04 cfs 0.019 af Discarded=0.00 cfs 0.000 af Primary=0.02 cfs 0.007 af Outflow=0.02 cfs 0.007 af
Total Runoff Area = 22.080 ac Runoff Volume = 0.664 af Average Runoff Depth = 0.36"	
94.84% Pervious = 20.940 ac 5.16% Impervious = 1.140 ac	

Summary for Subcatchment 1S: E-100 PERV

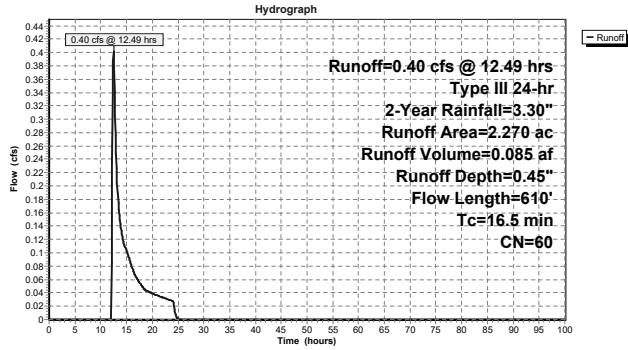
Runoff = 0.40 cfs @ 12.49 hrs, Volume= 0.085 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
0.420	55	Woods, Good, HSG B
1.850	61	>75% Grass cover, Good, HSG B
2.270	60	Weighted Average
2.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 1S: E-100 PERV



Hydrograph for Subcatchment 1S: E-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	0.45	0.00
1.00	0.03	0.00	0.00	52.00	3.30	0.45	0.00
2.00	0.07	0.00	0.00	53.00	3.30	0.45	0.00
3.00	0.10	0.00	0.00	54.00	3.30	0.45	0.00
4.00	0.14	0.00	0.00	55.00	3.30	0.45	0.00
5.00	0.19	0.00	0.00	56.00	3.30	0.45	0.00
6.00	0.24	0.00	0.00	57.00	3.30	0.45	0.00
7.00	0.30	0.00	0.00	58.00	3.30	0.45	0.00
8.00	0.38	0.00	0.00	59.00	3.30	0.45	0.00
9.00	0.48	0.00	0.00	60.00	3.30	0.45	0.00
10.00	0.62	0.00	0.00	61.00	3.30	0.45	0.00
11.00	0.83	0.00	0.00	62.00	3.30	0.45	0.00
12.00	1.65	0.01	0.01	63.00	3.30	0.45	0.00
13.00	2.47	0.17	0.25	64.00	3.30	0.45	0.00
14.00	2.68	0.23	0.13	65.00	3.30	0.45	0.00
15.00	2.82	0.27	0.10	66.00	3.30	0.45	0.00
16.00	2.92	0.31	0.08	67.00	3.30	0.45	0.00
17.00	3.00	0.33	0.06	68.00	3.30	0.45	0.00
18.00	3.06	0.36	0.05	69.00	3.30	0.45	0.00
19.00	3.11	0.37	0.04	70.00	3.30	0.45	0.00
20.00	3.16	0.39	0.04	71.00	3.30	0.45	0.00
21.00	3.20	0.41	0.04	72.00	3.30	0.45	0.00
22.00	3.24	0.42	0.03	73.00	3.30	0.45	0.00
23.00	3.27	0.44	0.03	74.00	3.30	0.45	0.00
24.00	3.30	0.45	0.03	75.00	3.30	0.45	0.00
25.00	3.30	0.45	0.00	76.00	3.30	0.45	0.00
26.00	3.30	0.45	0.00	77.00	3.30	0.45	0.00
27.00	3.30	0.45	0.00	78.00	3.30	0.45	0.00
28.00	3.30	0.45	0.00	79.00	3.30	0.45	0.00
29.00	3.30	0.45	0.00	80.00	3.30	0.45	0.00
30.00	3.30	0.45	0.00	81.00	3.30	0.45	0.00
31.00	3.30	0.45	0.00	82.00	3.30	0.45	0.00
32.00	3.30	0.45	0.00	83.00	3.30	0.45	0.00
33.00	3.30	0.45	0.00	84.00	3.30	0.45	0.00
34.00	3.30	0.45	0.00	85.00	3.30	0.45	0.00
35.00	3.30	0.45	0.00	86.00	3.30	0.45	0.00
36.00	3.30	0.45	0.00	87.00	3.30	0.45	0.00
37.00	3.30	0.45	0.00	88.00	3.30	0.45	0.00
38.00	3.30	0.45	0.00	89.00	3.30	0.45	0.00
39.00	3.30	0.45	0.00	90.00	3.30	0.45	0.00
40.00	3.30	0.45	0.00	91.00	3.30	0.45	0.00
41.00	3.30	0.45	0.00	92.00	3.30	0.45	0.00
42.00	3.30	0.45	0.00	93.00	3.30	0.45	0.00
43.00	3.30	0.45	0.00	94.00	3.30	0.45	0.00
44.00	3.30	0.45	0.00	95.00	3.30	0.45	0.00
45.00	3.30	0.45	0.00	96.00	3.30	0.45	0.00
46.00	3.30	0.45	0.00	97.00	3.30	0.45	0.00
47.00	3.30	0.45	0.00	98.00	3.30	0.45	0.00
48.00	3.30	0.45	0.00	99.00	3.30	0.45	0.00
49.00	3.30	0.45	0.00	100.00	3.30	0.45	0.00
50.00	3.30	0.45	0.00				

Summary for Subcatchment 2S: E-200 PERV

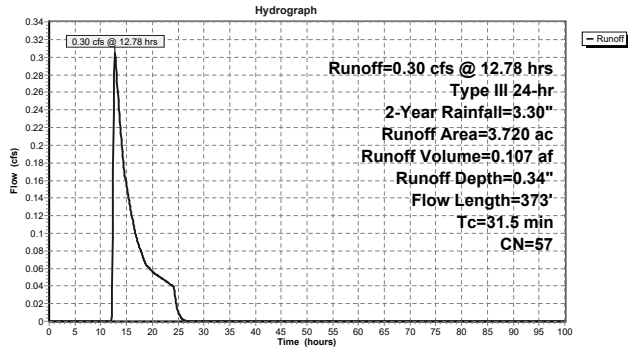
Runoff = 0.30 cfs @ 12.78 hrs, Volume= 0.107 af, Depth= 0.34"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
2.400	55	Woods, Good, HSG B
0.010	30	Woods, Good, HSG A
1.310	61	>75% Grass cover, Good, HSG B
3.720	57	Weighted Average
3.720		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 2S: E-200 PERV



Hydrograph for Subcatchment 2S: E-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	0.34	0.00
1.00	0.03	0.00	0.00	52.00	3.30	0.34	0.00
2.00	0.07	0.00	0.00	53.00	3.30	0.34	0.00
3.00	0.10	0.00	0.00	54.00	3.30	0.34	0.00
4.00	0.14	0.00	0.00	55.00	3.30	0.34	0.00
5.00	0.19	0.00	0.00	56.00	3.30	0.34	0.00
6.00	0.24	0.00	0.00	57.00	3.30	0.34	0.00
7.00	0.30	0.00	0.00	58.00	3.30	0.34	0.00
8.00	0.38	0.00	0.00	59.00	3.30	0.34	0.00
9.00	0.48	0.00	0.00	60.00	3.30	0.34	0.00
10.00	0.62	0.00	0.00	61.00	3.30	0.34	0.00
11.00	0.83	0.00	0.00	62.00	3.30	0.34	0.00
12.00	1.65	0.00	0.00	63.00	3.30	0.34	0.00
13.00	2.47	0.11	0.29	64.00	3.30	0.34	0.00
14.00	2.68	0.16	0.21	65.00	3.30	0.34	0.00
15.00	2.82	0.19	0.15	66.00	3.30	0.34	0.00
16.00	2.92	0.22	0.12	67.00	3.30	0.34	0.00
17.00	3.00	0.25	0.09	68.00	3.30	0.34	0.00
18.00	3.06	0.27	0.08	69.00	3.30	0.34	0.00
19.00	3.11	0.28	0.06	70.00	3.30	0.34	0.00
20.00	3.16	0.30	0.06	71.00	3.30	0.34	0.00
21.00	3.20	0.31	0.05	72.00	3.30	0.34	0.00
22.00	3.24	0.32	0.05	73.00	3.30	0.34	0.00
23.00	3.27	0.33	0.04	74.00	3.30	0.34	0.00
24.00	3.30	0.34	0.04	75.00	3.30	0.34	0.00
25.00	3.30	0.34	0.01	76.00	3.30	0.34	0.00
26.00	3.30	0.34	0.00	77.00	3.30	0.34	0.00
27.00	3.30	0.34	0.00	78.00	3.30	0.34	0.00
28.00	3.30	0.34	0.00	79.00	3.30	0.34	0.00
29.00	3.30	0.34	0.00	80.00	3.30	0.34	0.00
30.00	3.30	0.34	0.00	81.00	3.30	0.34	0.00
31.00	3.30	0.34	0.00	82.00	3.30	0.34	0.00
32.00	3.30	0.34	0.00	83.00	3.30	0.34	0.00
33.00	3.30	0.34	0.00	84.00	3.30	0.34	0.00
34.00	3.30	0.34	0.00	85.00	3.30	0.34	0.00
35.00	3.30	0.34	0.00	86.00	3.30	0.34	0.00
36.00	3.30	0.34	0.00	87.00	3.30	0.34	0.00
37.00	3.30	0.34	0.00	88.00	3.30	0.34	0.00
38.00	3.30	0.34	0.00	89.00	3.30	0.34	0.00
39.00	3.30	0.34	0.00	90.00	3.30	0.34	0.00
40.00	3.30	0.34	0.00	91.00	3.30	0.34	0.00
41.00	3.30	0.34	0.00	92.00	3.30	0.34	0.00
42.00	3.30	0.34	0.00	93.00	3.30	0.34	0.00
43.00	3.30	0.34	0.00	94.00	3.30	0.34	0.00
44.00	3.30	0.34	0.00	95.00	3.30	0.34	0.00
45.00	3.30	0.34	0.00	96.00	3.30	0.34	0.00
46.00	3.30	0.34	0.00	97.00	3.30	0.34	0.00
47.00	3.30	0.34	0.00	98.00	3.30	0.34	0.00
48.00	3.30	0.34	0.00	99.00	3.30	0.34	0.00
49.00	3.30	0.34	0.00	100.00	3.30	0.34	0.00
50.00	3.30	0.34	0.00				

Summary for Subcatchment 3S: E-300 PERV

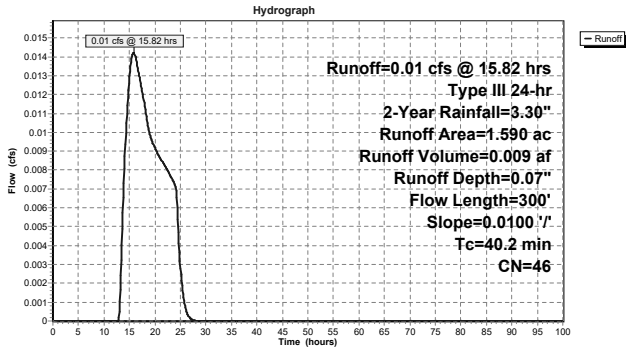
Runoff = 0.01 cfs @ 15.82 hrs, Volume= 0.009 af, Depth= 0.07"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	Pasture/grassland/range, Good, HSG B
0.940	39	Pasture/grassland/range, Good, HSG A
1.590	46	Weighted Average
1.590		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 3S: E-300 PERV



Hydrograph for Subcatchment 3S: E-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	0.07	0.00
1.00	0.03	0.00	0.00	52.00	3.30	0.07	0.00
2.00	0.07	0.00	0.00	53.00	3.30	0.07	0.00
3.00	0.10	0.00	0.00	54.00	3.30	0.07	0.00
4.00	0.14	0.00	0.00	55.00	3.30	0.07	0.00
5.00	0.19	0.00	0.00	56.00	3.30	0.07	0.00
6.00	0.24	0.00	0.00	57.00	3.30	0.07	0.00
7.00	0.30	0.00	0.00	58.00	3.30	0.07	0.00
8.00	0.38	0.00	0.00	59.00	3.30	0.07	0.00
9.00	0.48	0.00	0.00	60.00	3.30	0.07	0.00
10.00	0.62	0.00	0.00	61.00	3.30	0.07	0.00
11.00	0.83	0.00	0.00	62.00	3.30	0.07	0.00
12.00	1.65	0.00	0.00	63.00	3.30	0.07	0.00
13.00	2.47	0.00	0.00	64.00	3.30	0.07	0.00
14.00	2.68	0.01	0.01	65.00	3.30	0.07	0.00
15.00	2.82	0.02	0.01	66.00	3.30	0.07	0.00
16.00	2.92	0.03	0.01	67.00	3.30	0.07	0.00
17.00	3.00	0.03	0.01	68.00	3.30	0.07	0.00
18.00	3.06	0.04	0.01	69.00	3.30	0.07	0.00
19.00	3.11	0.05	0.01	70.00	3.30	0.07	0.00
20.00	3.16	0.05	0.01	71.00	3.30	0.07	0.00
21.00	3.20	0.06	0.01	72.00	3.30	0.07	0.00
22.00	3.24	0.06	0.01	73.00	3.30	0.07	0.00
23.00	3.27	0.07	0.01	74.00	3.30	0.07	0.00
24.00	3.30	0.07	0.01	75.00	3.30	0.07	0.00
25.00	3.30	0.07	0.00	76.00	3.30	0.07	0.00
26.00	3.30	0.07	0.00	77.00	3.30	0.07	0.00
27.00	3.30	0.07	0.00	78.00	3.30	0.07	0.00
28.00	3.30	0.07	0.00	79.00	3.30	0.07	0.00
29.00	3.30	0.07	0.00	80.00	3.30	0.07	0.00
30.00	3.30	0.07	0.00	81.00	3.30	0.07	0.00
31.00	3.30	0.07	0.00	82.00	3.30	0.07	0.00
32.00	3.30	0.07	0.00	83.00	3.30	0.07	0.00
33.00	3.30	0.07	0.00	84.00	3.30	0.07	0.00
34.00	3.30	0.07	0.00	85.00	3.30	0.07	0.00
35.00	3.30	0.07	0.00	86.00	3.30	0.07	0.00
36.00	3.30	0.07	0.00	87.00	3.30	0.07	0.00
37.00	3.30	0.07	0.00	88.00	3.30	0.07	0.00
38.00	3.30	0.07	0.00	89.00	3.30	0.07	0.00
39.00	3.30	0.07	0.00	90.00	3.30	0.07	0.00
40.00	3.30	0.07	0.00	91.00	3.30	0.07	0.00
41.00	3.30	0.07	0.00	92.00	3.30	0.07	0.00
42.00	3.30	0.07	0.00	93.00	3.30	0.07	0.00
43.00	3.30	0.07	0.00	94.00	3.30	0.07	0.00
44.00	3.30	0.07	0.00	95.00	3.30	0.07	0.00
45.00	3.30	0.07	0.00	96.00	3.30	0.07	0.00
46.00	3.30	0.07	0.00	97.00	3.30	0.07	0.00
47.00	3.30	0.07	0.00	98.00	3.30	0.07	0.00
48.00	3.30	0.07	0.00	99.00	3.30	0.07	0.00
49.00	3.30	0.07	0.00	100.00	3.30	0.07	0.00
50.00	3.30	0.07	0.00				

Summary for Subcatchment 4S: E-400 PERV

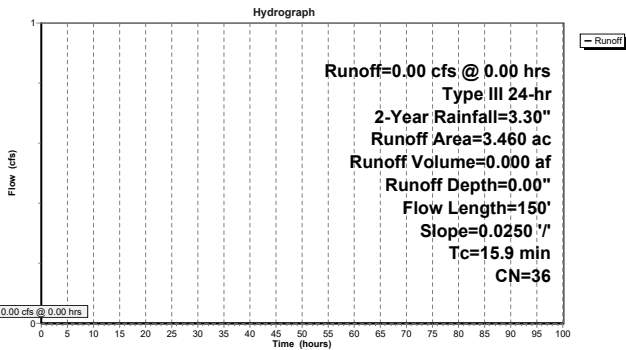
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.980	39	Pasture/grassland/range, Good, HSG A
3.460	36	Weighted Average
3.460		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 4S: E-400 PERV



Hydrograph for Subcatchment 4S: E-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	0.00	0.00
1.00	0.03	0.00	0.00	52.00	3.30	0.00	0.00
2.00	0.07	0.00	0.00	53.00	3.30	0.00	0.00
3.00	0.10	0.00	0.00	54.00	3.30	0.00	0.00
4.00	0.14	0.00	0.00	55.00	3.30	0.00	0.00
5.00	0.19	0.00	0.00	56.00	3.30	0.00	0.00
6.00	0.24	0.00	0.00	57.00	3.30	0.00	0.00
7.00	0.30	0.00	0.00	58.00	3.30	0.00	0.00
8.00	0.38	0.00	0.00	59.00	3.30	0.00	0.00
9.00	0.48	0.00	0.00	60.00	3.30	0.00	0.00
10.00	0.62	0.00	0.00	61.00	3.30	0.00	0.00
11.00	0.83	0.00	0.00	62.00	3.30	0.00	0.00
12.00	1.65	0.00	0.00	63.00	3.30	0.00	0.00
13.00	2.47	0.00	0.00	64.00	3.30	0.00	0.00
14.00	2.68	0.00	0.00	65.00	3.30	0.00	0.00
15.00	2.82	0.00	0.00	66.00	3.30	0.00	0.00
16.00	2.92	0.00	0.00	67.00	3.30	0.00	0.00
17.00	3.00	0.00	0.00	68.00	3.30	0.00	0.00
18.00	3.06	0.00	0.00	69.00	3.30	0.00	0.00
19.00	3.11	0.00	0.00	70.00	3.30	0.00	0.00
20.00	3.16	0.00	0.00	71.00	3.30	0.00	0.00
21.00	3.20	0.00	0.00	72.00	3.30	0.00	0.00
22.00	3.24	0.00	0.00	73.00	3.30	0.00	0.00
23.00	3.27	0.00	0.00	74.00	3.30	0.00	0.00
24.00	3.30	0.00	0.00	75.00	3.30	0.00	0.00
25.00	3.30	0.00	0.00	76.00	3.30	0.00	0.00
26.00	3.30	0.00	0.00	77.00	3.30	0.00	0.00
27.00	3.30	0.00	0.00	78.00	3.30	0.00	0.00
28.00	3.30	0.00	0.00	79.00	3.30	0.00	0.00
29.00	3.30	0.00	0.00	80.00	3.30	0.00	0.00
30.00	3.30	0.00	0.00	81.00	3.30	0.00	0.00
31.00	3.30	0.00	0.00	82.00	3.30	0.00	0.00
32.00	3.30	0.00	0.00	83.00	3.30	0.00	0.00
33.00	3.30	0.00	0.00	84.00	3.30	0.00	0.00
34.00	3.30	0.00	0.00	85.00	3.30	0.00	0.00
35.00	3.30	0.00	0.00	86.00	3.30	0.00	0.00
36.00	3.30	0.00	0.00	87.00	3.30	0.00	0.00
37.00	3.30	0.00	0.00	88.00	3.30	0.00	0.00
38.00	3.30	0.00	0.00	89.00	3.30	0.00	0.00
39.00	3.30	0.00	0.00	90.00	3.30	0.00	0.00
40.00	3.30	0.00	0.00	91.00	3.30	0.00	0.00
41.00	3.30	0.00	0.00	92.00	3.30	0.00	0.00
42.00	3.30	0.00	0.00	93.00	3.30	0.00	0.00
43.00	3.30	0.00	0.00	94.00	3.30	0.00	0.00
44.00	3.30	0.00	0.00	95.00	3.30	0.00	0.00
45.00	3.30	0.00	0.00	96.00	3.30	0.00	0.00
46.00	3.30	0.00	0.00	97.00	3.30	0.00	0.00
47.00	3.30	0.00	0.00	98.00	3.30	0.00	0.00
48.00	3.30	0.00	0.00	99.00	3.30	0.00	0.00
49.00	3.30	0.00	0.00	100.00	3.30	0.00	0.00
50.00	3.30	0.00	0.00				

Summary for Subcatchment 45S: P-100 PERV

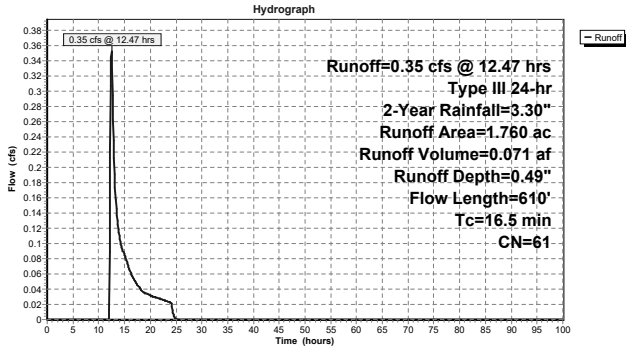
Runoff = 0.35 cfs @ 12.47 hrs, Volume= 0.071 af, Depth= 0.49"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
0.130	55	Woods, Good, HSG B
1.630	61	>75% Grass cover, Good, HSG B
1.760	61	Weighted Average
1.760		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 45S: P-100 PERV



Hydrograph for Subcatchment 45S: P-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	0.49	0.00
1.00	0.03	0.00	0.00	52.00	3.30	0.49	0.00
2.00	0.07	0.00	0.00	53.00	3.30	0.49	0.00
3.00	0.10	0.00	0.00	54.00	3.30	0.49	0.00
4.00	0.14	0.00	0.00	55.00	3.30	0.49	0.00
5.00	0.19	0.00	0.00	56.00	3.30	0.49	0.00
6.00	0.24	0.00	0.00	57.00	3.30	0.49	0.00
7.00	0.30	0.00	0.00	58.00	3.30	0.49	0.00
8.00	0.38	0.00	0.00	59.00	3.30	0.49	0.00
9.00	0.48	0.00	0.00	60.00	3.30	0.49	0.00
10.00	0.62	0.00	0.00	61.00	3.30	0.49	0.00
11.00	0.83	0.00	0.00	62.00	3.30	0.49	0.00
12.00	1.65	0.02	0.01	63.00	3.30	0.49	0.00
13.00	2.47	0.19	0.21	64.00	3.30	0.49	0.00
14.00	2.68	0.25	0.11	65.00	3.30	0.49	0.00
15.00	2.82	0.30	0.08	66.00	3.30	0.49	0.00
16.00	2.92	0.34	0.07	67.00	3.30	0.49	0.00
17.00	3.00	0.37	0.05	68.00	3.30	0.49	0.00
18.00	3.06	0.39	0.04	69.00	3.30	0.49	0.00
19.00	3.11	0.41	0.03	70.00	3.30	0.49	0.00
20.00	3.16	0.43	0.03	71.00	3.30	0.49	0.00
21.00	3.20	0.44	0.03	72.00	3.30	0.49	0.00
22.00	3.24	0.46	0.03	73.00	3.30	0.49	0.00
23.00	3.27	0.47	0.02	74.00	3.30	0.49	0.00
24.00	3.30	0.49	0.02	75.00	3.30	0.49	0.00
25.00	3.30	0.49	0.00	76.00	3.30	0.49	0.00
26.00	3.30	0.49	0.00	77.00	3.30	0.49	0.00
27.00	3.30	0.49	0.00	78.00	3.30	0.49	0.00
28.00	3.30	0.49	0.00	79.00	3.30	0.49	0.00
29.00	3.30	0.49	0.00	80.00	3.30	0.49	0.00
30.00	3.30	0.49	0.00	81.00	3.30	0.49	0.00
31.00	3.30	0.49	0.00	82.00	3.30	0.49	0.00
32.00	3.30	0.49	0.00	83.00	3.30	0.49	0.00
33.00	3.30	0.49	0.00	84.00	3.30	0.49	0.00
34.00	3.30	0.49	0.00	85.00	3.30	0.49	0.00
35.00	3.30	0.49	0.00	86.00	3.30	0.49	0.00
36.00	3.30	0.49	0.00	87.00	3.30	0.49	0.00
37.00	3.30	0.49	0.00	88.00	3.30	0.49	0.00
38.00	3.30	0.49	0.00	89.00	3.30	0.49	0.00
39.00	3.30	0.49	0.00	90.00	3.30	0.49	0.00
40.00	3.30	0.49	0.00	91.00	3.30	0.49	0.00
41.00	3.30	0.49	0.00	92.00	3.30	0.49	0.00
42.00	3.30	0.49	0.00	93.00	3.30	0.49	0.00
43.00	3.30	0.49	0.00	94.00	3.30	0.49	0.00
44.00	3.30	0.49	0.00	95.00	3.30	0.49	0.00
45.00	3.30	0.49	0.00	96.00	3.30	0.49	0.00
46.00	3.30	0.49	0.00	97.00	3.30	0.49	0.00
47.00	3.30	0.49	0.00	98.00	3.30	0.49	0.00
48.00	3.30	0.49	0.00	99.00	3.30	0.49	0.00
49.00	3.30	0.49	0.00	100.00	3.30	0.49	0.00
50.00	3.30	0.49	0.00				

Summary for Subcatchment 46S: P-200 PERV

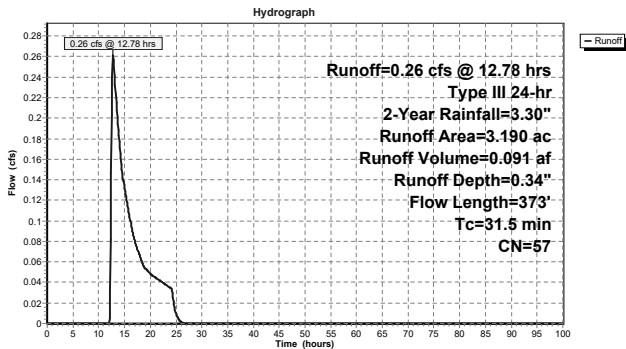
Runoff = 0.26 cfs @ 12.78 hrs, Volume= 0.091 af, Depth= 0.34"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
2.070	55	Woods, Good, HSG B
0.000	30	Woods, Good, HSG A
1.110	61	>75% Grass cover, Good, HSG B
0.010	39	>75% Grass cover, Good, HSG A
3.190	57	Weighted Average
3.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 46S: P-200 PERV



Hydrograph for Subcatchment 46S: P-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	0.34	0.00
1.00	0.03	0.00	0.00	52.00	3.30	0.34	0.00
2.00	0.07	0.00	0.00	53.00	3.30	0.34	0.00
3.00	0.10	0.00	0.00	54.00	3.30	0.34	0.00
4.00	0.14	0.00	0.00	55.00	3.30	0.34	0.00
5.00	0.19	0.00	0.00	56.00	3.30	0.34	0.00
6.00	0.24	0.00	0.00	57.00	3.30	0.34	0.00
7.00	0.30	0.00	0.00	58.00	3.30	0.34	0.00
8.00	0.38	0.00	0.00	59.00	3.30	0.34	0.00
9.00	0.48	0.00	0.00	60.00	3.30	0.34	0.00
10.00	0.62	0.00	0.00	61.00	3.30	0.34	0.00
11.00	0.83	0.00	0.00	62.00	3.30	0.34	0.00
12.00	1.65	0.00	0.00	63.00	3.30	0.34	0.00
13.00	2.47	0.11	0.25	64.00	3.30	0.34	0.00
14.00	2.68	0.16	0.18	65.00	3.30	0.34	0.00
15.00	2.82	0.19	0.13	66.00	3.30	0.34	0.00
16.00	2.92	0.22	0.10	67.00	3.30	0.34	0.00
17.00	3.00	0.25	0.08	68.00	3.30	0.34	0.00
18.00	3.06	0.27	0.06	69.00	3.30	0.34	0.00
19.00	3.11	0.28	0.05	70.00	3.30	0.34	0.00
20.00	3.16	0.30	0.05	71.00	3.30	0.34	0.00
21.00	3.20	0.31	0.04	72.00	3.30	0.34	0.00
22.00	3.24	0.32	0.04	73.00	3.30	0.34	0.00
23.00	3.27	0.33	0.04	74.00	3.30	0.34	0.00
24.00	3.30	0.34	0.03	75.00	3.30	0.34	0.00
25.00	3.30	0.34	0.01	76.00	3.30	0.34	0.00
26.00	3.30	0.34	0.00	77.00	3.30	0.34	0.00
27.00	3.30	0.34	0.00	78.00	3.30	0.34	0.00
28.00	3.30	0.34	0.00	79.00	3.30	0.34	0.00
29.00	3.30	0.34	0.00	80.00	3.30	0.34	0.00
30.00	3.30	0.34	0.00	81.00	3.30	0.34	0.00
31.00	3.30	0.34	0.00	82.00	3.30	0.34	0.00
32.00	3.30	0.34	0.00	83.00	3.30	0.34	0.00
33.00	3.30	0.34	0.00	84.00	3.30	0.34	0.00
34.00	3.30	0.34	0.00	85.00	3.30	0.34	0.00
35.00	3.30	0.34	0.00	86.00	3.30	0.34	0.00
36.00	3.30	0.34	0.00	87.00	3.30	0.34	0.00
37.00	3.30	0.34	0.00	88.00	3.30	0.34	0.00
38.00	3.30	0.34	0.00	89.00	3.30	0.34	0.00
39.00	3.30	0.34	0.00	90.00	3.30	0.34	0.00
40.00	3.30	0.34	0.00	91.00	3.30	0.34	0.00
41.00	3.30	0.34	0.00	92.00	3.30	0.34	0.00
42.00	3.30	0.34	0.00	93.00	3.30	0.34	0.00
43.00	3.30	0.34	0.00	94.00	3.30	0.34	0.00
44.00	3.30	0.34	0.00	95.00	3.30	0.34	0.00
45.00	3.30	0.34	0.00	96.00	3.30	0.34	0.00
46.00	3.30	0.34	0.00	97.00	3.30	0.34	0.00
47.00	3.30	0.34	0.00	98.00	3.30	0.34	0.00
48.00	3.30	0.34	0.00	99.00	3.30	0.34	0.00
49.00	3.30	0.34	0.00	100.00	3.30	0.34	0.00
50.00	3.30	0.34	0.00				

Summary for Subcatchment 47S: P-300 PERV

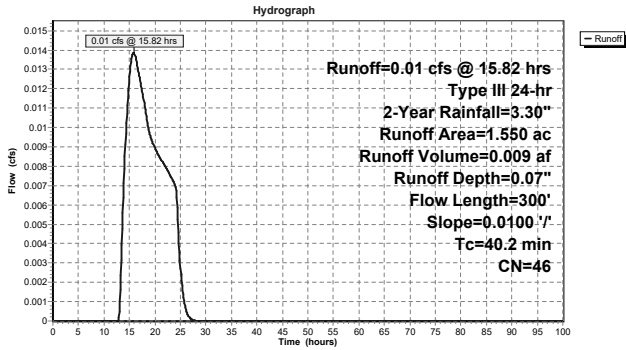
Runoff = 0.01 cfs @ 15.82 hrs, Volume= 0.009 af, Depth= 0.07"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	>75% Grass cover, Good, HSG B
0.900	39	>75% Grass cover, Good, HSG A
1.550	46	Weighted Average
1.550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 47S: P-300 PERV



Hydrograph for Subcatchment 47S: P-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	0.07	0.00
1.00	0.03	0.00	0.00	52.00	3.30	0.07	0.00
2.00	0.07	0.00	0.00	53.00	3.30	0.07	0.00
3.00	0.10	0.00	0.00	54.00	3.30	0.07	0.00
4.00	0.14	0.00	0.00	55.00	3.30	0.07	0.00
5.00	0.19	0.00	0.00	56.00	3.30	0.07	0.00
6.00	0.24	0.00	0.00	57.00	3.30	0.07	0.00
7.00	0.30	0.00	0.00	58.00	3.30	0.07	0.00
8.00	0.38	0.00	0.00	59.00	3.30	0.07	0.00
9.00	0.48	0.00	0.00	60.00	3.30	0.07	0.00
10.00	0.62	0.00	0.00	61.00	3.30	0.07	0.00
11.00	0.83	0.00	0.00	62.00	3.30	0.07	0.00
12.00	1.65	0.00	0.00	63.00	3.30	0.07	0.00
13.00	2.47	0.00	0.00	64.00	3.30	0.07	0.00
14.00	2.68	0.01	0.01	65.00	3.30	0.07	0.00
15.00	2.82	0.02	0.01	66.00	3.30	0.07	0.00
16.00	2.92	0.03	0.01	67.00	3.30	0.07	0.00
17.00	3.00	0.03	0.01	68.00	3.30	0.07	0.00
18.00	3.06	0.04	0.01	69.00	3.30	0.07	0.00
19.00	3.11	0.05	0.01	70.00	3.30	0.07	0.00
20.00	3.16	0.05	0.01	71.00	3.30	0.07	0.00
21.00	3.20	0.06	0.01	72.00	3.30	0.07	0.00
22.00	3.24	0.06	0.01	73.00	3.30	0.07	0.00
23.00	3.27	0.07	0.01	74.00	3.30	0.07	0.00
24.00	3.30	0.07	0.01	75.00	3.30	0.07	0.00
25.00	3.30	0.07	0.00	76.00	3.30	0.07	0.00
26.00	3.30	0.07	0.00	77.00	3.30	0.07	0.00
27.00	3.30	0.07	0.00	78.00	3.30	0.07	0.00
28.00	3.30	0.07	0.00	79.00	3.30	0.07	0.00
29.00	3.30	0.07	0.00	80.00	3.30	0.07	0.00
30.00	3.30	0.07	0.00	81.00	3.30	0.07	0.00
31.00	3.30	0.07	0.00	82.00	3.30	0.07	0.00
32.00	3.30	0.07	0.00	83.00	3.30	0.07	0.00
33.00	3.30	0.07	0.00	84.00	3.30	0.07	0.00
34.00	3.30	0.07	0.00	85.00	3.30	0.07	0.00
35.00	3.30	0.07	0.00	86.00	3.30	0.07	0.00
36.00	3.30	0.07	0.00	87.00	3.30	0.07	0.00
37.00	3.30	0.07	0.00	88.00	3.30	0.07	0.00
38.00	3.30	0.07	0.00	89.00	3.30	0.07	0.00
39.00	3.30	0.07	0.00	90.00	3.30	0.07	0.00
40.00	3.30	0.07	0.00	91.00	3.30	0.07	0.00
41.00	3.30	0.07	0.00	92.00	3.30	0.07	0.00
42.00	3.30	0.07	0.00	93.00	3.30	0.07	0.00
43.00	3.30	0.07	0.00	94.00	3.30	0.07	0.00
44.00	3.30	0.07	0.00	95.00	3.30	0.07	0.00
45.00	3.30	0.07	0.00	96.00	3.30	0.07	0.00
46.00	3.30	0.07	0.00	97.00	3.30	0.07	0.00
47.00	3.30	0.07	0.00	98.00	3.30	0.07	0.00
48.00	3.30	0.07	0.00	99.00	3.30	0.07	0.00
49.00	3.30	0.07	0.00	100.00	3.30	0.07	0.00
50.00	3.30	0.07	0.00				

Summary for Subcatchment 48S: P-400 PERV

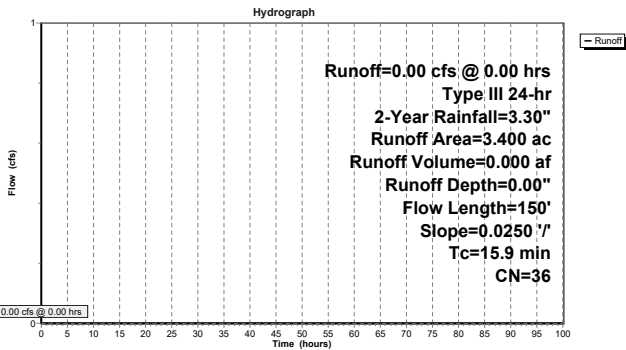
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.920	39	>75% Grass cover, Good, HSG A
3.400	36	Weighted Average
3.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 48S: P-400 PERV



Hydrograph for Subcatchment 48S: P-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	0.00	0.00
1.00	0.03	0.00	0.00	52.00	3.30	0.00	0.00
2.00	0.07	0.00	0.00	53.00	3.30	0.00	0.00
3.00	0.10	0.00	0.00	54.00	3.30	0.00	0.00
4.00	0.14	0.00	0.00	55.00	3.30	0.00	0.00
5.00	0.19	0.00	0.00	56.00	3.30	0.00	0.00
6.00	0.24	0.00	0.00	57.00	3.30	0.00	0.00
7.00	0.30	0.00	0.00	58.00	3.30	0.00	0.00
8.00	0.38	0.00	0.00	59.00	3.30	0.00	0.00
9.00	0.48	0.00	0.00	60.00	3.30	0.00	0.00
10.00	0.62	0.00	0.00	61.00	3.30	0.00	0.00
11.00	0.83	0.00	0.00	62.00	3.30	0.00	0.00
12.00	1.65	0.00	0.00	63.00	3.30	0.00	0.00
13.00	2.47	0.00	0.00	64.00	3.30	0.00	0.00
14.00	2.68	0.00	0.00	65.00	3.30	0.00	0.00
15.00	2.82	0.00	0.00	66.00	3.30	0.00	0.00
16.00	2.92	0.00	0.00	67.00	3.30	0.00	0.00
17.00	3.00	0.00	0.00	68.00	3.30	0.00	0.00
18.00	3.06	0.00	0.00	69.00	3.30	0.00	0.00
19.00	3.11	0.00	0.00	70.00	3.30	0.00	0.00
20.00	3.16	0.00	0.00	71.00	3.30	0.00	0.00
21.00	3.20	0.00	0.00	72.00	3.30	0.00	0.00
22.00	3.24	0.00	0.00	73.00	3.30	0.00	0.00
23.00	3.27	0.00	0.00	74.00	3.30	0.00	0.00
24.00	3.30	0.00	0.00	75.00	3.30	0.00	0.00
25.00	3.30	0.00	0.00	76.00	3.30	0.00	0.00
26.00	3.30	0.00	0.00	77.00	3.30	0.00	0.00
27.00	3.30	0.00	0.00	78.00	3.30	0.00	0.00
28.00	3.30	0.00	0.00	79.00	3.30	0.00	0.00
29.00	3.30	0.00	0.00	80.00	3.30	0.00	0.00
30.00	3.30	0.00	0.00	81.00	3.30	0.00	0.00
31.00	3.30	0.00	0.00	82.00	3.30	0.00	0.00
32.00	3.30	0.00	0.00	83.00	3.30	0.00	0.00
33.00	3.30	0.00	0.00	84.00	3.30	0.00	0.00
34.00	3.30	0.00	0.00	85.00	3.30	0.00	0.00
35.00	3.30	0.00	0.00	86.00	3.30	0.00	0.00
36.00	3.30	0.00	0.00	87.00	3.30	0.00	0.00
37.00	3.30	0.00	0.00	88.00	3.30	0.00	0.00
38.00	3.30	0.00	0.00	89.00	3.30	0.00	0.00
39.00	3.30	0.00	0.00	90.00	3.30	0.00	0.00
40.00	3.30	0.00	0.00	91.00	3.30	0.00	0.00
41.00	3.30	0.00	0.00	92.00	3.30	0.00	0.00
42.00	3.30	0.00	0.00	93.00	3.30	0.00	0.00
43.00	3.30	0.00	0.00	94.00	3.30	0.00	0.00
44.00	3.30	0.00	0.00	95.00	3.30	0.00	0.00
45.00	3.30	0.00	0.00	96.00	3.30	0.00	0.00
46.00	3.30	0.00	0.00	97.00	3.30	0.00	0.00
47.00	3.30	0.00	0.00	98.00	3.30	0.00	0.00
48.00	3.30	0.00	0.00	99.00	3.30	0.00	0.00
49.00	3.30	0.00	0.00	100.00	3.30	0.00	0.00
50.00	3.30	0.00	0.00				

Summary for Subcatchment 49S: P-100 IMP

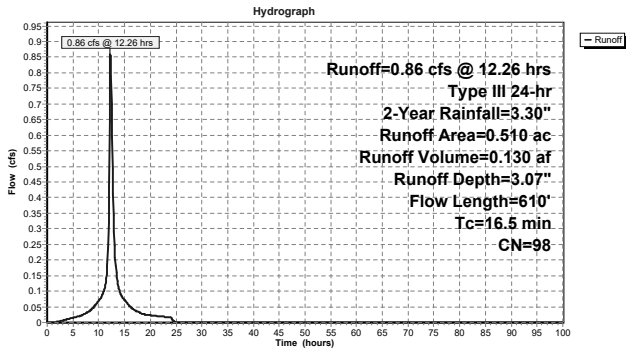
Runoff = 0.86 cfs @ 12.26 hrs, Volume= 0.130 af, Depth= 3.07"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
* 0.510	98	Unconnected pavement
0.510		100.00% Impervious Area
0.510		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 49S: P-100 IMP



Hydrograph for Subcatchment 49S: P-100 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	3.07	0.00
1.00	0.03	0.00	0.00	52.00	3.30	3.07	0.00
2.00	0.07	0.00	0.00	53.00	3.30	3.07	0.00
3.00	0.10	0.01	0.01	54.00	3.30	3.07	0.00
4.00	0.14	0.03	0.01	55.00	3.30	3.07	0.00
5.00	0.19	0.06	0.01	56.00	3.30	3.07	0.00
6.00	0.24	0.10	0.02	57.00	3.30	3.07	0.00
7.00	0.30	0.14	0.03	58.00	3.30	3.07	0.00
8.00	0.38	0.21	0.03	59.00	3.30	3.07	0.00
9.00	0.48	0.30	0.05	60.00	3.30	3.07	0.00
10.00	0.62	0.43	0.07	61.00	3.30	3.07	0.00
11.00	0.83	0.62	0.10	62.00	3.30	3.07	0.00
12.00	1.65	1.43	0.43	63.00	3.30	3.07	0.00
13.00	2.47	2.25	0.29	64.00	3.30	3.07	0.00
14.00	2.68	2.45	0.10	65.00	3.30	3.07	0.00
15.00	2.82	2.59	0.07	66.00	3.30	3.07	0.00
16.00	2.92	2.69	0.05	67.00	3.30	3.07	0.00
17.00	3.00	2.77	0.04	68.00	3.30	3.07	0.00
18.00	3.06	2.83	0.03	69.00	3.30	3.07	0.00
19.00	3.11	2.88	0.03	70.00	3.30	3.07	0.00
20.00	3.16	2.93	0.02	71.00	3.30	3.07	0.00
21.00	3.20	2.97	0.02	72.00	3.30	3.07	0.00
22.00	3.24	3.00	0.02	73.00	3.30	3.07	0.00
23.00	3.27	3.04	0.02	74.00	3.30	3.07	0.00
24.00	3.30	3.07	0.02	75.00	3.30	3.07	0.00
25.00	3.30	3.07	0.00	76.00	3.30	3.07	0.00
26.00	3.30	3.07	0.00	77.00	3.30	3.07	0.00
27.00	3.30	3.07	0.00	78.00	3.30	3.07	0.00
28.00	3.30	3.07	0.00	79.00	3.30	3.07	0.00
29.00	3.30	3.07	0.00	80.00	3.30	3.07	0.00
30.00	3.30	3.07	0.00	81.00	3.30	3.07	0.00
31.00	3.30	3.07	0.00	82.00	3.30	3.07	0.00
32.00	3.30	3.07	0.00	83.00	3.30	3.07	0.00
33.00	3.30	3.07	0.00	84.00	3.30	3.07	0.00
34.00	3.30	3.07	0.00	85.00	3.30	3.07	0.00
35.00	3.30	3.07	0.00	86.00	3.30	3.07	0.00
36.00	3.30	3.07	0.00	87.00	3.30	3.07	0.00
37.00	3.30	3.07	0.00	88.00	3.30	3.07	0.00
38.00	3.30	3.07	0.00	89.00	3.30	3.07	0.00
39.00	3.30	3.07	0.00	90.00	3.30	3.07	0.00
40.00	3.30	3.07	0.00	91.00	3.30	3.07	0.00
41.00	3.30	3.07	0.00	92.00	3.30	3.07	0.00
42.00	3.30	3.07	0.00	93.00	3.30	3.07	0.00
43.00	3.30	3.07	0.00	94.00	3.30	3.07	0.00
44.00	3.30	3.07	0.00	95.00	3.30	3.07	0.00
45.00	3.30	3.07	0.00	96.00	3.30	3.07	0.00
46.00	3.30	3.07	0.00	97.00	3.30	3.07	0.00
47.00	3.30	3.07	0.00	98.00	3.30	3.07	0.00
48.00	3.30	3.07	0.00	99.00	3.30	3.07	0.00
49.00	3.30	3.07	0.00	100.00	3.30	3.07	0.00
50.00	3.30	3.07	0.00				

Summary for Subcatchment 50S: P-200 IMP

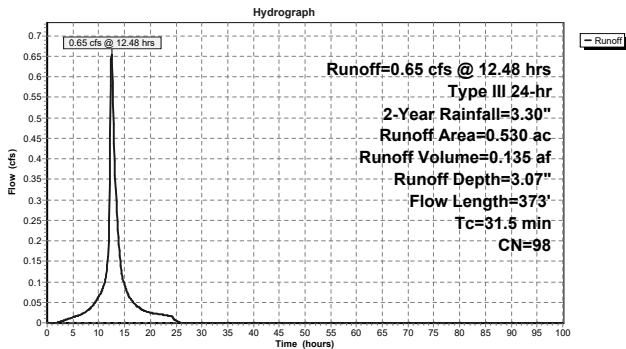
Runoff = 0.65 cfs @ 12.48 hrs, Volume= 0.135 af, Depth= 3.07"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
* 0.530	98	Unconnected pavement
0.530		100.00% Impervious Area
0.530		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 50S: P-200 IMP



Hydrograph for Subcatchment 50S: P-200 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	3.07	0.00
1.00	0.03	0.00	0.00	52.00	3.30	3.07	0.00
2.00	0.07	0.00	0.00	53.00	3.30	3.07	0.00
3.00	0.10	0.01	0.00	54.00	3.30	3.07	0.00
4.00	0.14	0.03	0.01	55.00	3.30	3.07	0.00
5.00	0.19	0.06	0.01	56.00	3.30	3.07	0.00
6.00	0.24	0.10	0.02	57.00	3.30	3.07	0.00
7.00	0.30	0.14	0.02	58.00	3.30	3.07	0.00
8.00	0.38	0.21	0.03	59.00	3.30	3.07	0.00
9.00	0.48	0.30	0.04	60.00	3.30	3.07	0.00
10.00	0.62	0.43	0.06	61.00	3.30	3.07	0.00
11.00	0.83	0.62	0.09	62.00	3.30	3.07	0.00
12.00	1.65	1.43	0.25	63.00	3.30	3.07	0.00
13.00	2.47	2.25	0.44	64.00	3.30	3.07	0.00
14.00	2.68	2.45	0.18	65.00	3.30	3.07	0.00
15.00	2.82	2.59	0.09	66.00	3.30	3.07	0.00
16.00	2.92	2.69	0.06	67.00	3.30	3.07	0.00
17.00	3.00	2.77	0.05	68.00	3.30	3.07	0.00
18.00	3.06	2.83	0.04	69.00	3.30	3.07	0.00
19.00	3.11	2.88	0.03	70.00	3.30	3.07	0.00
20.00	3.16	2.93	0.03	71.00	3.30	3.07	0.00
21.00	3.20	2.97	0.02	72.00	3.30	3.07	0.00
22.00	3.24	3.00	0.02	73.00	3.30	3.07	0.00
23.00	3.27	3.04	0.02	74.00	3.30	3.07	0.00
24.00	3.30	3.07	0.02	75.00	3.30	3.07	0.00
25.00	3.30	3.07	0.00	76.00	3.30	3.07	0.00
26.00	3.30	3.07	0.00	77.00	3.30	3.07	0.00
27.00	3.30	3.07	0.00	78.00	3.30	3.07	0.00
28.00	3.30	3.07	0.00	79.00	3.30	3.07	0.00
29.00	3.30	3.07	0.00	80.00	3.30	3.07	0.00
30.00	3.30	3.07	0.00	81.00	3.30	3.07	0.00
31.00	3.30	3.07	0.00	82.00	3.30	3.07	0.00
32.00	3.30	3.07	0.00	83.00	3.30	3.07	0.00
33.00	3.30	3.07	0.00	84.00	3.30	3.07	0.00
34.00	3.30	3.07	0.00	85.00	3.30	3.07	0.00
35.00	3.30	3.07	0.00	86.00	3.30	3.07	0.00
36.00	3.30	3.07	0.00	87.00	3.30	3.07	0.00
37.00	3.30	3.07	0.00	88.00	3.30	3.07	0.00
38.00	3.30	3.07	0.00	89.00	3.30	3.07	0.00
39.00	3.30	3.07	0.00	90.00	3.30	3.07	0.00
40.00	3.30	3.07	0.00	91.00	3.30	3.07	0.00
41.00	3.30	3.07	0.00	92.00	3.30	3.07	0.00
42.00	3.30	3.07	0.00	93.00	3.30	3.07	0.00
43.00	3.30	3.07	0.00	94.00	3.30	3.07	0.00
44.00	3.30	3.07	0.00	95.00	3.30	3.07	0.00
45.00	3.30	3.07	0.00	96.00	3.30	3.07	0.00
46.00	3.30	3.07	0.00	97.00	3.30	3.07	0.00
47.00	3.30	3.07	0.00	98.00	3.30	3.07	0.00
48.00	3.30	3.07	0.00	99.00	3.30	3.07	0.00
49.00	3.30	3.07	0.00	100.00	3.30	3.07	0.00
50.00	3.30	3.07	0.00				

Summary for Subcatchment 51S: P-300 IMP

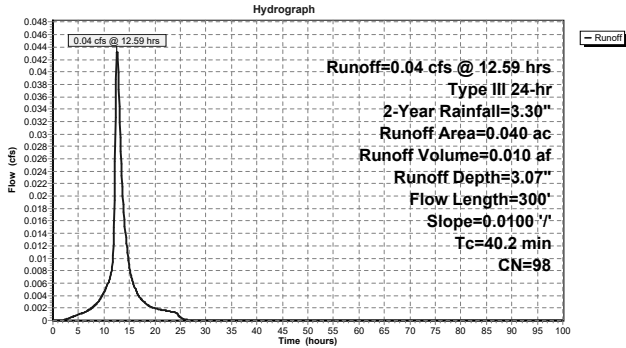
Runoff = 0.04 cfs @ 12.59 hrs, Volume= 0.010 af, Depth= 3.07"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
0.040	98	Unconnected pavement
0.040		100.00% Impervious Area
0.040		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 51S: P-300 IMP



Hydrograph for Subcatchment 51S: P-300 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	3.07	0.00
1.00	0.03	0.00	0.00	52.00	3.30	3.07	0.00
2.00	0.07	0.00	0.00	53.00	3.30	3.07	0.00
3.00	0.10	0.01	0.00	54.00	3.30	3.07	0.00
4.00	0.14	0.03	0.00	55.00	3.30	3.07	0.00
5.00	0.19	0.06	0.00	56.00	3.30	3.07	0.00
6.00	0.24	0.10	0.00	57.00	3.30	3.07	0.00
7.00	0.30	0.14	0.00	58.00	3.30	3.07	0.00
8.00	0.38	0.21	0.00	59.00	3.30	3.07	0.00
9.00	0.48	0.30	0.00	60.00	3.30	3.07	0.00
10.00	0.62	0.43	0.00	61.00	3.30	3.07	0.00
11.00	0.83	0.62	0.01	62.00	3.30	3.07	0.00
12.00	1.65	1.43	0.01	63.00	3.30	3.07	0.00
13.00	2.47	2.25	0.03	64.00	3.30	3.07	0.00
14.00	2.68	2.45	0.02	65.00	3.30	3.07	0.00
15.00	2.82	2.59	0.01	66.00	3.30	3.07	0.00
16.00	2.92	2.69	0.01	67.00	3.30	3.07	0.00
17.00	3.00	2.77	0.00	68.00	3.30	3.07	0.00
18.00	3.06	2.83	0.00	69.00	3.30	3.07	0.00
19.00	3.11	2.88	0.00	70.00	3.30	3.07	0.00
20.00	3.16	2.93	0.00	71.00	3.30	3.07	0.00
21.00	3.20	2.97	0.00	72.00	3.30	3.07	0.00
22.00	3.24	3.00	0.00	73.00	3.30	3.07	0.00
23.00	3.27	3.04	0.00	74.00	3.30	3.07	0.00
24.00	3.30	3.07	0.00	75.00	3.30	3.07	0.00
25.00	3.30	3.07	0.00	76.00	3.30	3.07	0.00
26.00	3.30	3.07	0.00	77.00	3.30	3.07	0.00
27.00	3.30	3.07	0.00	78.00	3.30	3.07	0.00
28.00	3.30	3.07	0.00	79.00	3.30	3.07	0.00
29.00	3.30	3.07	0.00	80.00	3.30	3.07	0.00
30.00	3.30	3.07	0.00	81.00	3.30	3.07	0.00
31.00	3.30	3.07	0.00	82.00	3.30	3.07	0.00
32.00	3.30	3.07	0.00	83.00	3.30	3.07	0.00
33.00	3.30	3.07	0.00	84.00	3.30	3.07	0.00
34.00	3.30	3.07	0.00	85.00	3.30	3.07	0.00
35.00	3.30	3.07	0.00	86.00	3.30	3.07	0.00
36.00	3.30	3.07	0.00	87.00	3.30	3.07	0.00
37.00	3.30	3.07	0.00	88.00	3.30	3.07	0.00
38.00	3.30	3.07	0.00	89.00	3.30	3.07	0.00
39.00	3.30	3.07	0.00	90.00	3.30	3.07	0.00
40.00	3.30	3.07	0.00	91.00	3.30	3.07	0.00
41.00	3.30	3.07	0.00	92.00	3.30	3.07	0.00
42.00	3.30	3.07	0.00	93.00	3.30	3.07	0.00
43.00	3.30	3.07	0.00	94.00	3.30	3.07	0.00
44.00	3.30	3.07	0.00	95.00	3.30	3.07	0.00
45.00	3.30	3.07	0.00	96.00	3.30	3.07	0.00
46.00	3.30	3.07	0.00	97.00	3.30	3.07	0.00
47.00	3.30	3.07	0.00	98.00	3.30	3.07	0.00
48.00	3.30	3.07	0.00	99.00	3.30	3.07	0.00
49.00	3.30	3.07	0.00	100.00	3.30	3.07	0.00
50.00	3.30	3.07	0.00				

Summary for Subcatchment 52S: P-400 IMP

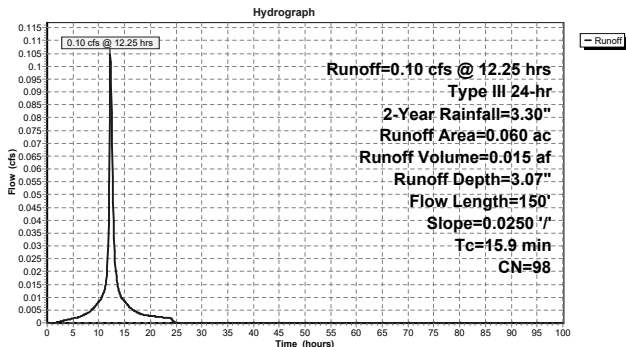
Runoff = 0.10 cfs @ 12.25 hrs, Volume= 0.015 af, Depth= 3.07"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 2-Year Rainfall=3.30"

Area (ac)	CN	Description
0.060	98	Unconnected pavement
0.060		100.00% Impervious Area
0.060		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 52S: P-400 IMP



Hydrograph for Subcatchment 52S: P-400 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	3.30	3.07	0.00
1.00	0.03	0.00	0.00	52.00	3.30	3.07	0.00
2.00	0.07	0.00	0.00	53.00	3.30	3.07	0.00
3.00	0.10	0.01	0.00	54.00	3.30	3.07	0.00
4.00	0.14	0.03	0.00	55.00	3.30	3.07	0.00
5.00	0.19	0.06	0.00	56.00	3.30	3.07	0.00
6.00	0.24	0.10	0.00	57.00	3.30	3.07	0.00
7.00	0.30	0.14	0.00	58.00	3.30	3.07	0.00
8.00	0.38	0.21	0.00	59.00	3.30	3.07	0.00
9.00	0.48	0.30	0.01	60.00	3.30	3.07	0.00
10.00	0.62	0.43	0.01	61.00	3.30	3.07	0.00
11.00	0.83	0.62	0.01	62.00	3.30	3.07	0.00
12.00	1.65	1.43	0.05	63.00	3.30	3.07	0.00
13.00	2.47	2.25	0.03	64.00	3.30	3.07	0.00
14.00	2.68	2.45	0.01	65.00	3.30	3.07	0.00
15.00	2.82	2.59	0.01	66.00	3.30	3.07	0.00
16.00	2.92	2.69	0.01	67.00	3.30	3.07	0.00
17.00	3.00	2.77	0.00	68.00	3.30	3.07	0.00
18.00	3.06	2.83	0.00	69.00	3.30	3.07	0.00
19.00	3.11	2.88	0.00	70.00	3.30	3.07	0.00
20.00	3.16	2.93	0.00	71.00	3.30	3.07	0.00
21.00	3.20	2.97	0.00	72.00	3.30	3.07	0.00
22.00	3.24	3.00	0.00	73.00	3.30	3.07	0.00
23.00	3.27	3.04	0.00	74.00	3.30	3.07	0.00
24.00	3.30	3.07	0.00	75.00	3.30	3.07	0.00
25.00	3.30	3.07	0.00	76.00	3.30	3.07	0.00
26.00	3.30	3.07	0.00	77.00	3.30	3.07	0.00
27.00	3.30	3.07	0.00	78.00	3.30	3.07	0.00
28.00	3.30	3.07	0.00	79.00	3.30	3.07	0.00
29.00	3.30	3.07	0.00	80.00	3.30	3.07	0.00
30.00	3.30	3.07	0.00	81.00	3.30	3.07	0.00
31.00	3.30	3.07	0.00	82.00	3.30	3.07	0.00
32.00	3.30	3.07	0.00	83.00	3.30	3.07	0.00
33.00	3.30	3.07	0.00	84.00	3.30	3.07	0.00
34.00	3.30	3.07	0.00	85.00	3.30	3.07	0.00
35.00	3.30	3.07	0.00	86.00	3.30	3.07	0.00
36.00	3.30	3.07	0.00	87.00	3.30	3.07	0.00
37.00	3.30	3.07	0.00	88.00	3.30	3.07	0.00
38.00	3.30	3.07	0.00	89.00	3.30	3.07	0.00
39.00	3.30	3.07	0.00	90.00	3.30	3.07	0.00
40.00	3.30	3.07	0.00	91.00	3.30	3.07	0.00
41.00	3.30	3.07	0.00	92.00	3.30	3.07	0.00
42.00	3.30	3.07	0.00	93.00	3.30	3.07	0.00
43.00	3.30	3.07	0.00	94.00	3.30	3.07	0.00
44.00	3.30	3.07	0.00	95.00	3.30	3.07	0.00
45.00	3.30	3.07	0.00	96.00	3.30	3.07	0.00
46.00	3.30	3.07	0.00	97.00	3.30	3.07	0.00
47.00	3.30	3.07	0.00	98.00	3.30	3.07	0.00
48.00	3.30	3.07	0.00	99.00	3.30	3.07	0.00
49.00	3.30	3.07	0.00	100.00	3.30	3.07	0.00
50.00	3.30	3.07	0.00				

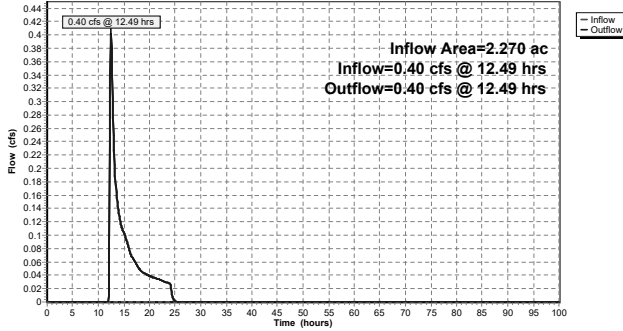
Summary for Reach 6R: E-100

Inflow Area = 2.270 ac, 0.00% Impervious, Inflow Depth = 0.45" for 2-Year event
 Inflow = 0.40 cfs @ 12.49 hrs, Volume= 0.085 af
 Outflow = 0.40 cfs @ 12.49 hrs, Volume= 0.085 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 6R: E-100

Hydrograph



Hydrograph for Reach 6R: E-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.01	0.01	0.01	63.00	0.00	0.00	0.00
13.00	0.25	0.25	0.25	64.00	0.00	0.00	0.00
14.00	0.13	0.13	0.13	65.00	0.00	0.00	0.00
15.00	0.10	0.10	0.10	66.00	0.00	0.00	0.00
16.00	0.08	0.08	0.08	67.00	0.00	0.00	0.00
17.00	0.06	0.06	0.06	68.00	0.00	0.00	0.00
18.00	0.05	0.05	0.05	69.00	0.00	0.00	0.00
19.00	0.04	0.04	0.04	70.00	0.00	0.00	0.00
20.00	0.04	0.04	0.04	71.00	0.00	0.00	0.00
21.00	0.04	0.04	0.04	72.00	0.00	0.00	0.00
22.00	0.03	0.03	0.03	73.00	0.00	0.00	0.00
23.00	0.03	0.03	0.03	74.00	0.00	0.00	0.00
24.00	0.03	0.03	0.03	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

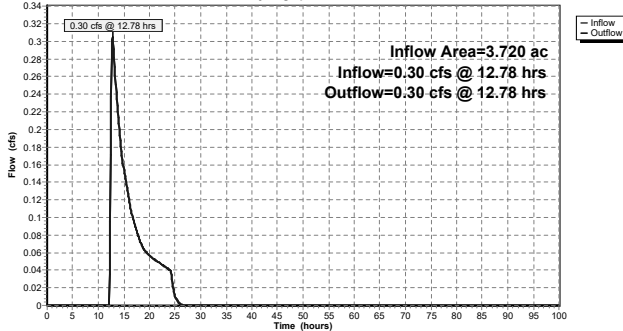
Summary for Reach 7R: E-200

Inflow Area = 3.720 ac, 0.00% Impervious, Inflow Depth = 0.34" for 2-Year event
 Inflow = 0.30 cfs @ 12.78 hrs, Volume= 0.107 af
 Outflow = 0.30 cfs @ 12.78 hrs, Volume= 0.107 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 7R: E-200

Hydrograph



Hydrograph for Reach 7R: E-200

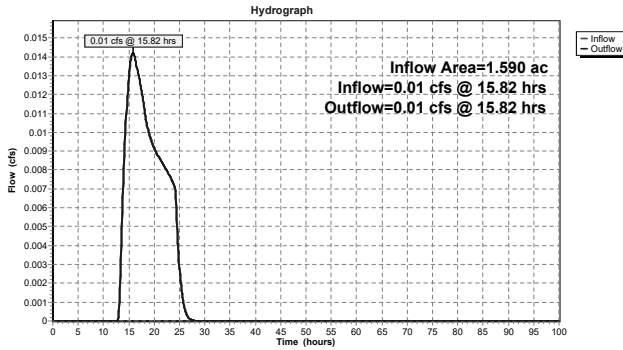
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
13.00	0.29	0.29	0.29	64.00	0.00	0.00	0.00
14.00	0.21	0.21	0.21	65.00	0.00	0.00	0.00
15.00	0.15	0.15	0.15	66.00	0.00	0.00	0.00
16.00	0.12	0.12	0.12	67.00	0.00	0.00	0.00
17.00	0.09	0.09	0.09	68.00	0.00	0.00	0.00
18.00	0.08	0.08	0.08	69.00	0.00	0.00	0.00
19.00	0.06	0.06	0.06	70.00	0.00	0.00	0.00
20.00	0.06	0.06	0.06	71.00	0.00	0.00	0.00
21.00	0.05	0.05	0.05	72.00	0.00	0.00	0.00
22.00	0.05	0.05	0.05	73.00	0.00	0.00	0.00
23.00	0.04	0.04	0.04	74.00	0.00	0.00	0.00
24.00	0.04	0.04	0.04	75.00	0.00	0.00	0.00
25.00	0.01	0.01	0.01	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 8R: E-300

Inflow Area = 1.590 ac, 0.00% Impervious, Inflow Depth = 0.07" for 2-Year event
 Inflow = 0.01 cfs @ 15.82 hrs, Volume= 0.009 af
 Outflow = 0.01 cfs @ 15.82 hrs, Volume= 0.009 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 8R: E-300



Hydrograph for Reach 8R: E-300

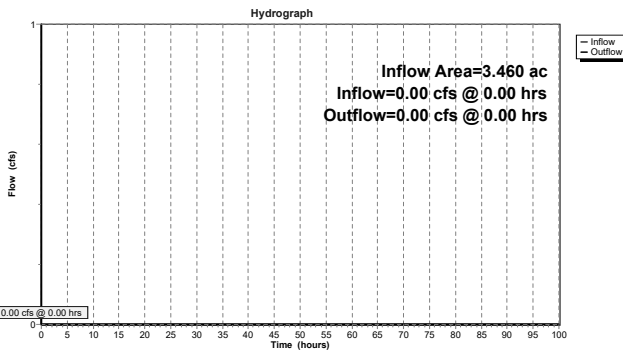
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
13.00	0.00	0.00	0.00	64.00	0.00	0.00	0.00
14.00	0.01	0.01	0.01	65.00	0.00	0.00	0.00
15.00	0.01	0.01	0.01	66.00	0.00	0.00	0.00
16.00	0.01	0.01	0.01	67.00	0.00	0.00	0.00
17.00	0.01	0.01	0.01	68.00	0.00	0.00	0.00
18.00	0.01	0.01	0.01	69.00	0.00	0.00	0.00
19.00	0.01	0.01	0.01	70.00	0.00	0.00	0.00
20.00	0.01	0.01	0.01	71.00	0.00	0.00	0.00
21.00	0.01	0.01	0.01	72.00	0.00	0.00	0.00
22.00	0.01	0.01	0.01	73.00	0.00	0.00	0.00
23.00	0.01	0.01	0.01	74.00	0.00	0.00	0.00
24.00	0.01	0.01	0.01	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 22R: E-400

Inflow Area = 3.460 ac, 0.00% Impervious, Inflow Depth = 0.00" for 2-Year event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 22R: E-400



Hydrograph for Reach 22R: E-400

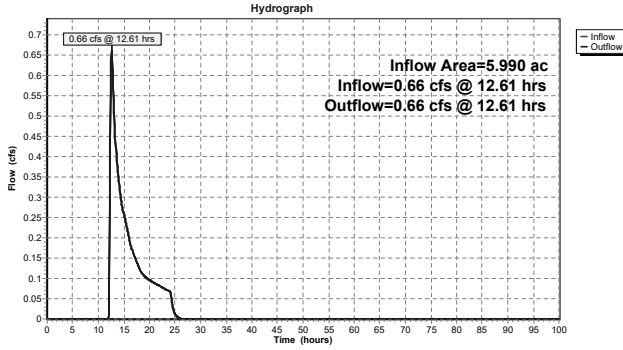
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
13.00	0.00	0.00	0.00	64.00	0.00	0.00	0.00
14.00	0.00	0.00	0.00	65.00	0.00	0.00	0.00
15.00	0.00	0.00	0.00	66.00	0.00	0.00	0.00
16.00	0.00	0.00	0.00	67.00	0.00	0.00	0.00
17.00	0.00	0.00	0.00	68.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	69.00	0.00	0.00	0.00
19.00	0.00	0.00	0.00	70.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	71.00	0.00	0.00	0.00
21.00	0.00	0.00	0.00	72.00	0.00	0.00	0.00
22.00	0.00	0.00	0.00	73.00	0.00	0.00	0.00
23.00	0.00	0.00	0.00	74.00	0.00	0.00	0.00
24.00	0.00	0.00	0.00	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 23R: E-POA "A"

Inflow Area = 5.990 ac, 0.00% Impervious, Inflow Depth = 0.38" for 2-Year event
 Inflow = 0.66 cfs @ 12.61 hrs, Volume= 0.191 af
 Outflow = 0.66 cfs @ 12.61 hrs, Volume= 0.191 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 23R: E-POA "A"



Hydrograph for Reach 23R: E-POA "A"

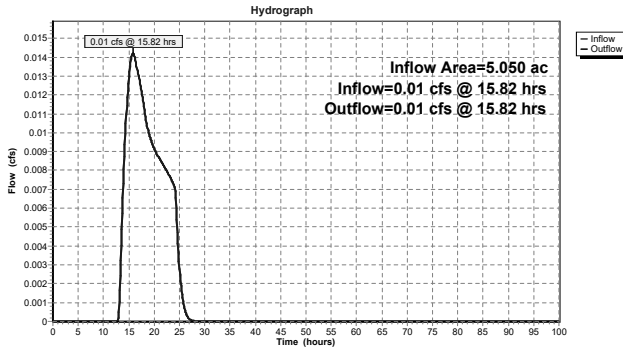
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.01	0.01	0.01	63.00	0.00	0.00	0.00
13.00	0.54	0.54	0.54	64.00	0.00	0.00	0.00
14.00	0.34	0.34	0.34	65.00	0.00	0.00	0.00
15.00	0.26	0.26	0.26	66.00	0.00	0.00	0.00
16.00	0.20	0.20	0.20	67.00	0.00	0.00	0.00
17.00	0.16	0.16	0.16	68.00	0.00	0.00	0.00
18.00	0.13	0.13	0.13	69.00	0.00	0.00	0.00
19.00	0.11	0.11	0.11	70.00	0.00	0.00	0.00
20.00	0.10	0.10	0.10	71.00	0.00	0.00	0.00
21.00	0.09	0.09	0.09	72.00	0.00	0.00	0.00
22.00	0.08	0.08	0.08	73.00	0.00	0.00	0.00
23.00	0.07	0.07	0.07	74.00	0.00	0.00	0.00
24.00	0.07	0.07	0.07	75.00	0.00	0.00	0.00
25.00	0.01	0.01	0.01	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 25R: E-POA "B"

Inflow Area = 5.050 ac, 0.00% Impervious, Inflow Depth = 0.02" for 2-Year event
 Inflow = 0.01 cfs @ 15.82 hrs, Volume= 0.009 af
 Outflow = 0.01 cfs @ 15.82 hrs, Volume= 0.009 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 25R: E-POA "B"



Hydrograph for Reach 25R: E-POA "B"

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
13.00	0.00	0.00	0.00	64.00	0.00	0.00	0.00
14.00	0.01	0.01	0.01	65.00	0.00	0.00	0.00
15.00	0.01	0.01	0.01	66.00	0.00	0.00	0.00
16.00	0.01	0.01	0.01	67.00	0.00	0.00	0.00
17.00	0.01	0.01	0.01	68.00	0.00	0.00	0.00
18.00	0.01	0.01	0.01	69.00	0.00	0.00	0.00
19.00	0.01	0.01	0.01	70.00	0.00	0.00	0.00
20.00	0.01	0.01	0.01	71.00	0.00	0.00	0.00
21.00	0.01	0.01	0.01	72.00	0.00	0.00	0.00
22.00	0.01	0.01	0.01	73.00	0.00	0.00	0.00
23.00	0.01	0.01	0.01	74.00	0.00	0.00	0.00
24.00	0.01	0.01	0.01	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

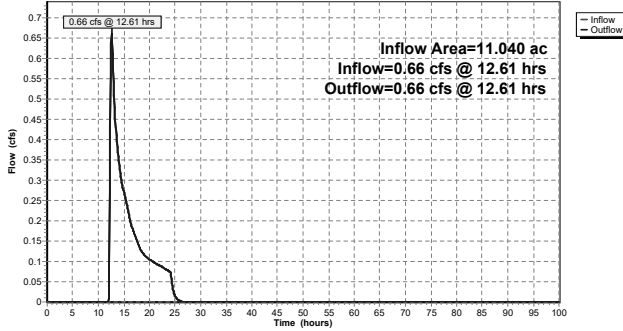
Summary for Reach 26R: E-POA

Inflow Area = 11.040 ac, 0.00% Impervious, Inflow Depth = 0.22" for 2-Year event
 Inflow = 0.66 cfs @ 12.61 hrs, Volume= 0.201 af
 Outflow = 0.66 cfs @ 12.61 hrs, Volume= 0.201 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 26R: E-POA

Hydrograph



Hydrograph for Reach 26R: E-POA

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.01	0.01	0.01	63.00	0.00	0.00	0.00
13.00	0.54	0.54	0.54	64.00	0.00	0.00	0.00
14.00	0.35	0.35	0.35	65.00	0.00	0.00	0.00
15.00	0.27	0.27	0.27	66.00	0.00	0.00	0.00
16.00	0.21	0.21	0.21	67.00	0.00	0.00	0.00
17.00	0.17	0.17	0.17	68.00	0.00	0.00	0.00
18.00	0.14	0.14	0.14	69.00	0.00	0.00	0.00
19.00	0.12	0.12	0.12	70.00	0.00	0.00	0.00
20.00	0.11	0.11	0.11	71.00	0.00	0.00	0.00
21.00	0.10	0.10	0.10	72.00	0.00	0.00	0.00
22.00	0.09	0.09	0.09	73.00	0.00	0.00	0.00
23.00	0.08	0.08	0.08	74.00	0.00	0.00	0.00
24.00	0.07	0.07	0.07	75.00	0.00	0.00	0.00
25.00	0.07	0.07	0.07	76.00	0.00	0.00	0.00
26.00	0.06	0.06	0.06	77.00	0.00	0.00	0.00
27.00	0.06	0.06	0.06	78.00	0.00	0.00	0.00
28.00	0.06	0.06	0.06	79.00	0.00	0.00	0.00
29.00	0.06	0.06	0.06	80.00	0.00	0.00	0.00
30.00	0.06	0.06	0.06	81.00	0.00	0.00	0.00
31.00	0.06	0.06	0.06	82.00	0.00	0.00	0.00
32.00	0.06	0.06	0.06	83.00	0.00	0.00	0.00
33.00	0.06	0.06	0.06	84.00	0.00	0.00	0.00
34.00	0.06	0.06	0.06	85.00	0.00	0.00	0.00
35.00	0.06	0.06	0.06	86.00	0.00	0.00	0.00
36.00	0.06	0.06	0.06	87.00	0.00	0.00	0.00
37.00	0.06	0.06	0.06	88.00	0.00	0.00	0.00
38.00	0.06	0.06	0.06	89.00	0.00	0.00	0.00
39.00	0.06	0.06	0.06	90.00	0.00	0.00	0.00
40.00	0.06	0.06	0.06	91.00	0.00	0.00	0.00
41.00	0.06	0.06	0.06	92.00	0.00	0.00	0.00
42.00	0.06	0.06	0.06	93.00	0.00	0.00	0.00
43.00	0.06	0.06	0.06	94.00	0.00	0.00	0.00
44.00	0.06	0.06	0.06	95.00	0.00	0.00	0.00
45.00	0.06	0.06	0.06	96.00	0.00	0.00	0.00
46.00	0.06	0.06	0.06	97.00	0.00	0.00	0.00
47.00	0.06	0.06	0.06	98.00	0.00	0.00	0.00
48.00	0.06	0.06	0.06	99.00	0.00	0.00	0.00
49.00	0.06	0.06	0.06	100.00	0.00	0.00	0.00
50.00	0.06	0.06	0.06				

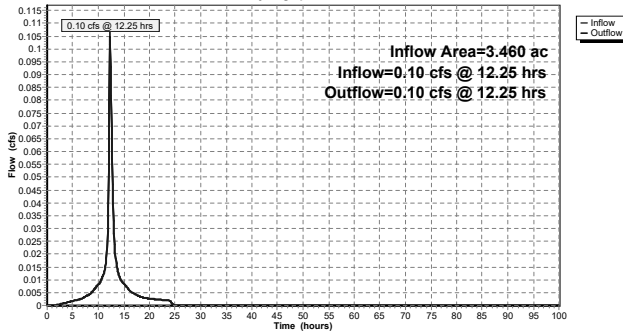
Summary for Reach 38R: P-400

Inflow Area = 3.460 ac, 1.73% Impervious, Inflow Depth = 0.05" for 2-Year event
 Inflow = 0.10 cfs @ 12.25 hrs, Volume= 0.015 af
 Outflow = 0.10 cfs @ 12.25 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 38R: P-400

Hydrograph



Hydrograph for Reach 38R: P-400

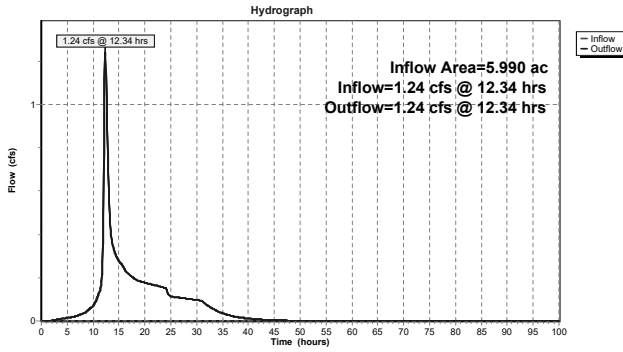
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.01	0.01	0.01	60.00	0.00	0.00	0.00
10.00	0.01	0.01	0.01	61.00	0.00	0.00	0.00
11.00	0.01	0.01	0.01	62.00	0.00	0.00	0.00
12.00	0.05	0.05	0.05	63.00	0.00	0.00	0.00
13.00	0.03	0.03	0.03	64.00	0.00	0.00	0.00
14.00	0.01	0.01	0.01	65.00	0.00	0.00	0.00
15.00	0.01	0.01	0.01	66.00	0.00	0.00	0.00
16.00	0.01	0.01	0.01	67.00	0.00	0.00	0.00
17.00	0.00	0.00	0.00	68.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	69.00	0.00	0.00	0.00
19.00	0.00	0.00	0.00	70.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	71.00	0.00	0.00	0.00
21.00	0.00	0.00	0.00	72.00	0.00	0.00	0.00
22.00	0.00	0.00	0.00	73.00	0.00	0.00	0.00
23.00	0.00	0.00	0.00	74.00	0.00	0.00	0.00
24.00	0.00	0.00	0.00	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 39R: P-POA "A"

Inflow Area = 5.990 ac, 17.36% Impervious, Inflow Depth = 0.83" for 2-Year event
 Inflow = 1.24 cfs @ 12.34 hrs, Volume= 0.414 af
 Outflow = 1.24 cfs @ 12.34 hrs, Volume= 0.414 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 39R: P-POA "A"



Hydrograph for Reach 39R: P-POA "A"

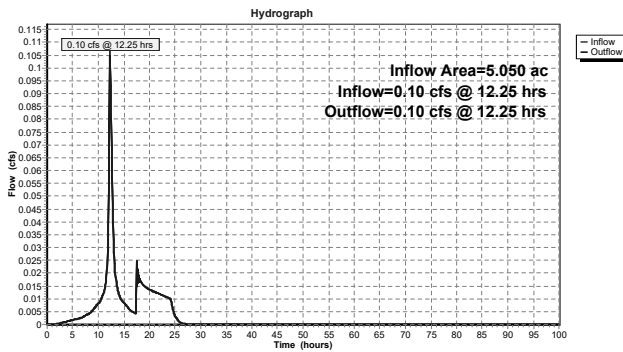
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.01	0.01	0.01	54.00	0.00	0.00	0.00
4.00	0.01	0.01	0.01	55.00	0.00	0.00	0.00
5.00	0.01	0.01	0.01	56.00	0.00	0.00	0.00
6.00	0.02	0.02	0.02	57.00	0.00	0.00	0.00
7.00	0.03	0.03	0.03	58.00	0.00	0.00	0.00
8.00	0.03	0.03	0.03	59.00	0.00	0.00	0.00
9.00	0.05	0.05	0.05	60.00	0.00	0.00	0.00
10.00	0.07	0.07	0.07	61.00	0.00	0.00	0.00
11.00	0.12	0.12	0.12	62.00	0.00	0.00	0.00
12.00	0.49	0.49	0.49	63.00	0.00	0.00	0.00
13.00	0.61	0.61	0.61	64.00	0.00	0.00	0.00
14.00	0.33	0.33	0.33	65.00	0.00	0.00	0.00
15.00	0.28	0.28	0.28	66.00	0.00	0.00	0.00
16.00	0.24	0.24	0.24	67.00	0.00	0.00	0.00
17.00	0.21	0.21	0.21	68.00	0.00	0.00	0.00
18.00	0.20	0.20	0.20	69.00	0.00	0.00	0.00
19.00	0.18	0.18	0.18	70.00	0.00	0.00	0.00
20.00	0.18	0.18	0.18	71.00	0.00	0.00	0.00
21.00	0.17	0.17	0.17	72.00	0.00	0.00	0.00
22.00	0.16	0.16	0.16	73.00	0.00	0.00	0.00
23.00	0.16	0.16	0.16	74.00	0.00	0.00	0.00
24.00	0.15	0.15	0.15	75.00	0.00	0.00	0.00
25.00	0.11	0.11	0.11	76.00	0.00	0.00	0.00
26.00	0.11	0.11	0.11	77.00	0.00	0.00	0.00
27.00	0.11	0.11	0.11	78.00	0.00	0.00	0.00
28.00	0.10	0.10	0.10	79.00	0.00	0.00	0.00
29.00	0.10	0.10	0.10	80.00	0.00	0.00	0.00
30.00	0.10	0.10	0.10	81.00	0.00	0.00	0.00
31.00	0.09	0.09	0.09	82.00	0.00	0.00	0.00
32.00	0.07	0.07	0.07	83.00	0.00	0.00	0.00
33.00	0.06	0.06	0.06	84.00	0.00	0.00	0.00
34.00	0.05	0.05	0.05	85.00	0.00	0.00	0.00
35.00	0.04	0.04	0.04	86.00	0.00	0.00	0.00
36.00	0.03	0.03	0.03	87.00	0.00	0.00	0.00
37.00	0.02	0.02	0.02	88.00	0.00	0.00	0.00
38.00	0.02	0.02	0.02	89.00	0.00	0.00	0.00
39.00	0.01	0.01	0.01	90.00	0.00	0.00	0.00
40.00	0.01	0.01	0.01	91.00	0.00	0.00	0.00
41.00	0.01	0.01	0.01	92.00	0.00	0.00	0.00
42.00	0.01	0.01	0.01	93.00	0.00	0.00	0.00
43.00	0.01	0.01	0.01	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 40R: P-POA "B"

Inflow Area = 5.050 ac, 1.98% Impervious, Inflow Depth = 0.05" for 2-Year event
 Inflow = 0.10 cfs @ 12.25 hrs, Volume= 0.022 af
 Outflow = 0.10 cfs @ 12.25 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 40R: P-POA "B"



Hydrograph for Reach 40R: P-POA "B"

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.01	0.01	0.01	60.00	0.00	0.00	0.00
10.00	0.01	0.01	0.01	61.00	0.00	0.00	0.00
11.00	0.01	0.01	0.01	62.00	0.00	0.00	0.00
12.00	0.05	0.05	0.05	63.00	0.00	0.00	0.00
13.00	0.03	0.03	0.03	64.00	0.00	0.00	0.00
14.00	0.01	0.01	0.01	65.00	0.00	0.00	0.00
15.00	0.01	0.01	0.01	66.00	0.00	0.00	0.00
16.00	0.01	0.01	0.01	67.00	0.00	0.00	0.00
17.00	0.00	0.00	0.00	68.00	0.00	0.00	0.00
18.00	0.02	0.02	0.02	69.00	0.00	0.00	0.00
19.00	0.01	0.01	0.01	70.00	0.00	0.00	0.00
20.00	0.01	0.01	0.01	71.00	0.00	0.00	0.00
21.00	0.01	0.01	0.01	72.00	0.00	0.00	0.00
22.00	0.01	0.01	0.01	73.00	0.00	0.00	0.00
23.00	0.01	0.01	0.01	74.00	0.00	0.00	0.00
24.00	0.01	0.01	0.01	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

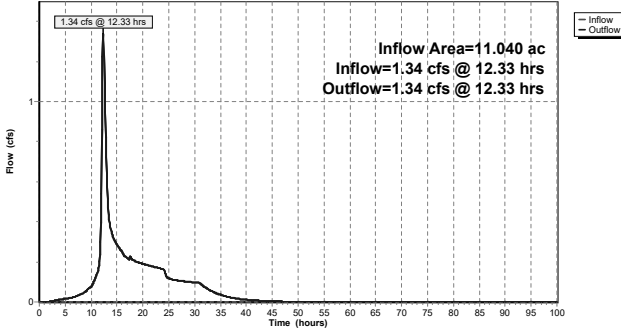
Summary for Reach 41R: P-POA

Inflow Area = 11.040 ac, 10.33% Impervious, Inflow Depth = 0.47" for 2-Year event
 Inflow = 1.34 cfs @ 12.33 hrs, Volume= 0.436 af
 Outflow = 1.34 cfs @ 12.33 hrs, Volume= 0.436 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 41R: P-POA

Hydrograph



Hydrograph for Reach 41R: P-POA

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.01	0.01	0.01	54.00	0.00	0.00	0.00
4.00	0.01	0.01	0.01	55.00	0.00	0.00	0.00
5.00	0.02	0.02	0.02	56.00	0.00	0.00	0.00
6.00	0.02	0.02	0.02	57.00	0.00	0.00	0.00
7.00	0.03	0.03	0.03	58.00	0.00	0.00	0.00
8.00	0.04	0.04	0.04	59.00	0.00	0.00	0.00
9.00	0.05	0.05	0.05	60.00	0.00	0.00	0.00
10.00	0.08	0.08	0.08	61.00	0.00	0.00	0.00
11.00	0.13	0.13	0.13	62.00	0.00	0.00	0.00
12.00	0.54	0.54	0.54	63.00	0.00	0.00	0.00
13.00	0.64	0.64	0.64	64.00	0.00	0.00	0.00
14.00	0.34	0.34	0.34	65.00	0.00	0.00	0.00
15.00	0.29	0.29	0.29	66.00	0.00	0.00	0.00
16.00	0.25	0.25	0.25	67.00	0.00	0.00	0.00
17.00	0.22	0.22	0.22	68.00	0.00	0.00	0.00
18.00	0.21	0.21	0.21	69.00	0.00	0.00	0.00
19.00	0.20	0.20	0.20	70.00	0.00	0.00	0.00
20.00	0.19	0.19	0.19	71.00	0.00	0.00	0.00
21.00	0.18	0.18	0.18	72.00	0.00	0.00	0.00
22.00	0.18	0.18	0.18	73.00	0.00	0.00	0.00
23.00	0.17	0.17	0.17	74.00	0.00	0.00	0.00
24.00	0.16	0.16	0.16	75.00	0.00	0.00	0.00
25.00	0.12	0.12	0.12	76.00	0.00	0.00	0.00
26.00	0.11	0.11	0.11	77.00	0.00	0.00	0.00
27.00	0.11	0.11	0.11	78.00	0.00	0.00	0.00
28.00	0.10	0.10	0.10	79.00	0.00	0.00	0.00
29.00	0.10	0.10	0.10	80.00	0.00	0.00	0.00
30.00	0.10	0.10	0.10	81.00	0.00	0.00	0.00
31.00	0.09	0.09	0.09	82.00	0.00	0.00	0.00
32.00	0.07	0.07	0.07	83.00	0.00	0.00	0.00
33.00	0.06	0.06	0.06	84.00	0.00	0.00	0.00
34.00	0.05	0.05	0.05	85.00	0.00	0.00	0.00
35.00	0.04	0.04	0.04	86.00	0.00	0.00	0.00
36.00	0.03	0.03	0.03	87.00	0.00	0.00	0.00
37.00	0.02	0.02	0.02	88.00	0.00	0.00	0.00
38.00	0.02	0.02	0.02	89.00	0.00	0.00	0.00
39.00	0.01	0.01	0.01	90.00	0.00	0.00	0.00
40.00	0.01	0.01	0.01	91.00	0.00	0.00	0.00
41.00	0.01	0.01	0.01	92.00	0.00	0.00	0.00
42.00	0.01	0.01	0.01	93.00	0.00	0.00	0.00
43.00	0.01	0.01	0.01	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

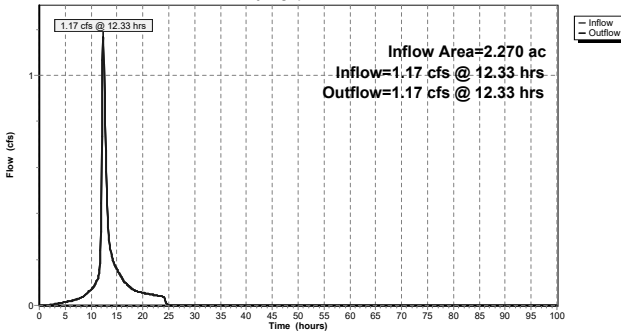
Summary for Reach 46R: P-100

Inflow Area = 2.270 ac, 22.47% Impervious, Inflow Depth = 1.07" for 2-Year event
 Inflow = 1.17 cfs @ 12.33 hrs, Volume= 0.202 af
 Outflow = 1.17 cfs @ 12.33 hrs, Volume= 0.202 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 46R: P-100

Hydrograph



Hydrograph for Reach 46R: P-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.01	0.01	0.01	54.00	0.00	0.00	0.00
4.00	0.01	0.01	0.01	55.00	0.00	0.00	0.00
5.00	0.01	0.01	0.01	56.00	0.00	0.00	0.00
6.00	0.02	0.02	0.02	57.00	0.00	0.00	0.00
7.00	0.03	0.03	0.03	58.00	0.00	0.00	0.00
8.00	0.03	0.03	0.03	59.00	0.00	0.00	0.00
9.00	0.05	0.05	0.05	60.00	0.00	0.00	0.00
10.00	0.07	0.07	0.07	61.00	0.00	0.00	0.00
11.00	0.10	0.10	0.10	62.00	0.00	0.00	0.00
12.00	0.45	0.45	0.45	63.00	0.00	0.00	0.00
13.00	0.50	0.50	0.50	64.00	0.00	0.00	0.00
14.00	0.21	0.21	0.21	65.00	0.00	0.00	0.00
15.00	0.16	0.16	0.16	66.00	0.00	0.00	0.00
16.00	0.12	0.12	0.12	67.00	0.00	0.00	0.00
17.00	0.09	0.09	0.09	68.00	0.00	0.00	0.00
18.00	0.07	0.07	0.07	69.00	0.00	0.00	0.00
19.00	0.06	0.06	0.06	70.00	0.00	0.00	0.00
20.00	0.05	0.05	0.05	71.00	0.00	0.00	0.00
21.00	0.05	0.05	0.05	72.00	0.00	0.00	0.00
22.00	0.05	0.05	0.05	73.00	0.00	0.00	0.00
23.00	0.04	0.04	0.04	74.00	0.00	0.00	0.00
24.00	0.04	0.04	0.04	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Pond 43P: P-200 Station 1450 Culvert

Inflow Area = 3.720 ac, 14.25% Impervious, Inflow Depth = 0.73" for 2-Year event
 Inflow = 0.87 cfs @ 12.58 hrs, Volume= 0.227 af
 Outflow = 0.12 cfs @ 17.05 hrs, Volume= 0.212 af, Atten= 86%, Lag= 268.1 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Primary = 0.12 cfs @ 17.05 hrs, Volume= 0.212 af

Routing by Stor-Ind method, Time Span=0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 147.43' @ 17.05 hrs Surf.Area= 7,753 sf Storage= 4,549 cf

Plug-Flow detention time= 564.3 min calculated for 0.212 af (94% of inflow)
 Center-of-Mass det. time= 527.9 min (1,398.5 - 870.6)

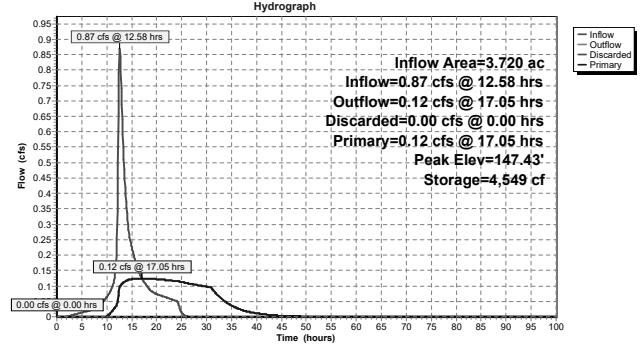
Volume #1	Invert	Avail.Storage	Storage Description
	143.50'	30,636 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.50	4	0	0
145.58	10	15	15
146.00	245	54	68
147.00	3,750	1,998	2,066
148.00	13,020	8,385	10,451
149.00	27,350	20,185	30,636

Device	Routing	Invert	Outlet Devices
#1	Discarded	1,000.00'	1,000 in/hr Exfiltration over Surface area above 1,000.00' Conductivity to Groundwater Elevation = 140.00' Excluded Surface area = 27,350 sf
#2	Primary	146.50'	2.0" x 2.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 2	145.58'	12.0" Round Culvert L= 60.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet/Outlet Invert= 145.58'/ 145.00' S= 0.0097' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

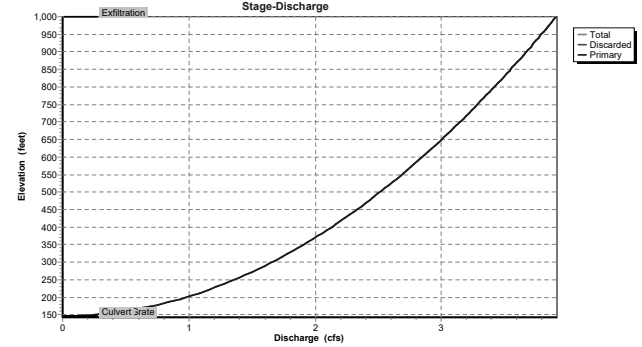
Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=143.50' (Free Discharge)
 1=Exfiltration (Controls 0.00 cfs)

Primary OutFlow Max=0.13 cfs @ 17.05 hrs HW=147.43' (Free Discharge)
 2=Orifice/Grate (Orifice Controls 0.13 cfs @ 4.65 fps)
 3=Culvert (Passes 0.13 cfs of 3.31 cfs potential flow)

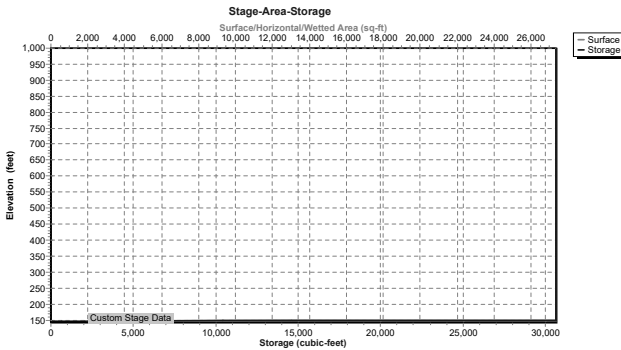
Pond 43P: P-200 Station 1450 Culvert



Pond 43P: P-200 Station 1450 Culvert



Pond 43P: P-200 Station 1450 Culvert



Hydrograph for Pond 43P: P-200 Station 1450 Culvert

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	143.50	0.00	0.00	0.00
2.00	0.00	1	143.60	0.00	0.00	0.00
4.00	0.01	35	145.74	0.00	0.00	0.00
6.00	0.02	132	146.06	0.00	0.00	0.00
8.00	0.03	303	146.21	0.00	0.00	0.00
10.00	0.06	632	146.50	0.00	0.00	0.00
12.00	0.25	1,258	146.72	0.04	0.00	0.04
14.00	0.35	4,798	147.33	0.12	0.00	0.12
16.00	0.17	5,616	147.42	0.12	0.00	0.12
18.00	0.10	5,644	147.43	0.12	0.00	0.12
20.00	0.07	5,363	147.39	0.12	0.00	0.12
22.00	0.06	4,982	147.35	0.12	0.00	0.12
24.00	0.05	4,546	147.30	0.12	0.00	0.12
26.00	0.00	3,877	147.22	0.11	0.00	0.11
28.00	0.00	3,114	147.13	0.10	0.00	0.10
30.00	0.00	2,392	147.04	0.10	0.00	0.10
32.00	0.00	1,748	146.89	0.07	0.00	0.07
34.00	0.00	1,326	146.74	0.05	0.00	0.05
36.00	0.00	1,063	146.65	0.03	0.00	0.03
38.00	0.00	899	146.59	0.02	0.00	0.02
40.00	0.00	797	146.56	0.01	0.00	0.01
42.00	0.00	733	146.54	0.01	0.00	0.01
44.00	0.00	694	146.52	0.00	0.00	0.00
46.00	0.00	669	146.51	0.00	0.00	0.00
48.00	0.00	654	146.51	0.00	0.00	0.00
50.00	0.00	644	146.51	0.00	0.00	0.00
52.00	0.00	639	146.50	0.00	0.00	0.00
54.00	0.00	635	146.50	0.00	0.00	0.00
56.00	0.00	633	146.50	0.00	0.00	0.00
58.00	0.00	631	146.50	0.00	0.00	0.00
60.00	0.00	630	146.50	0.00	0.00	0.00
62.00	0.00	630	146.50	0.00	0.00	0.00
64.00	0.00	629	146.50	0.00	0.00	0.00
66.00	0.00	629	146.50	0.00	0.00	0.00
68.00	0.00	629	146.50	0.00	0.00	0.00
70.00	0.00	629	146.50	0.00	0.00	0.00
72.00	0.00	629	146.50	0.00	0.00	0.00
74.00	0.00	629	146.50	0.00	0.00	0.00
76.00	0.00	629	146.50	0.00	0.00	0.00
78.00	0.00	629	146.50	0.00	0.00	0.00
80.00	0.00	629	146.50	0.00	0.00	0.00
82.00	0.00	629	146.50	0.00	0.00	0.00
84.00	0.00	629	146.50	0.00	0.00	0.00
86.00	0.00	629	146.50	0.00	0.00	0.00
88.00	0.00	629	146.50	0.00	0.00	0.00
90.00	0.00	629	146.50	0.00	0.00	0.00
92.00	0.00	629	146.50	0.00	0.00	0.00
94.00	0.00	629	146.50	0.00	0.00	0.00
96.00	0.00	629	146.50	0.00	0.00	0.00
98.00	0.00	629	146.50	0.00	0.00	0.00
100.00	0.00	629	146.50	0.00	0.00	0.00

Stage-Discharge for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
143.50	0.00	0.00	0.00	582.10	2.79	0.00	2.79
152.10	0.32	0.00	0.32	590.70	2.82	0.00	2.82
160.70	0.50	0.00	0.50	599.30	2.85	0.00	2.85
169.30	0.64	0.00	0.64	607.90	2.87	0.00	2.87
177.90	0.75	0.00	0.75	616.50	2.90	0.00	2.90
186.50	0.85	0.00	0.85	625.10	2.93	0.00	2.93
195.10	0.93	0.00	0.93	633.70	2.95	0.00	2.95
203.70	1.01	0.00	1.01	642.30	2.98	0.00	2.98
212.30	1.08	0.00	1.08	650.90	3.00	0.00	3.00
220.90	1.15	0.00	1.15	659.50	3.03	0.00	3.03
229.50	1.22	0.00	1.22	668.10	3.05	0.00	3.05
238.10	1.28	0.00	1.28	676.70	3.08	0.00	3.08
246.70	1.34	0.00	1.34	685.30	3.10	0.00	3.10
255.30	1.40	0.00	1.40	693.90	3.13	0.00	3.13
263.90	1.45	0.00	1.45	702.50	3.15	0.00	3.15
272.50	1.50	0.00	1.50	711.10	3.18	0.00	3.18
281.10	1.55	0.00	1.55	719.70	3.20	0.00	3.20
289.70	1.60	0.00	1.60	728.30	3.23	0.00	3.23
298.30	1.65	0.00	1.65	736.90	3.25	0.00	3.25
306.90	1.69	0.00	1.69	745.50	3.27	0.00	3.27
315.50	1.74	0.00	1.74	754.10	3.30	0.00	3.30
324.10	1.78	0.00	1.78	762.70	3.32	0.00	3.32
332.70	1.83	0.00	1.83	771.30	3.34	0.00	3.34
341.30	1.87	0.00	1.87	779.90	3.37	0.00	3.37
349.90	1.91	0.00	1.91	788.50	3.39	0.00	3.39
358.50	1.95	0.00	1.95	797.10	3.41	0.00	3.41
367.10	1.99	0.00	1.99	805.70	3.43	0.00	3.43
375.70	2.02	0.00	2.02	814.30	3.46	0.00	3.46
384.30	2.06	0.00	2.06	822.90	3.48	0.00	3.48
392.90	2.10	0.00	2.10	831.50	3.50	0.00	3.50
401.50	2.14	0.00	2.14	840.10	3.52	0.00	3.52
410.10	2.17	0.00	2.17	848.70	3.54	0.00	3.54
418.70	2.21	0.00	2.21	857.30	3.57	0.00	3.57
427.30	2.24	0.00	2.24	865.90	3.59	0.00	3.59
435.90	2.28	0.00	2.28	874.50	3.61	0.00	3.61
444.50	2.31	0.00	2.31	883.10	3.63	0.00	3.63
453.10	2.34	0.00	2.34	891.70	3.65	0.00	3.65
461.70	2.37	0.00	2.37	900.30	3.67	0.00	3.67
470.30	2.41	0.00	2.41	908.90	3.69	0.00	3.69
478.90	2.44	0.00	2.44	917.50	3.71	0.00	3.71
487.50	2.47	0.00	2.47	926.10	3.73	0.00	3.73
496.10	2.50	0.00	2.50	934.70	3.75	0.00	3.75
504.70	2.53	0.00	2.53	943.30	3.78	0.00	3.78
513.30	2.56	0.00	2.56	951.90	3.80	0.00	3.80
521.90	2.59	0.00	2.59	960.50	3.82	0.00	3.82
530.50	2.62	0.00	2.62	969.10	3.84	0.00	3.84
539.10	2.65	0.00	2.65	977.70	3.86	0.00	3.86
547.70	2.68	0.00	2.68	986.30	3.88	0.00	3.88
556.30	2.71	0.00	2.71	994.90	3.90	0.00	3.90
564.90	2.74	0.00	2.74				
573.50	2.76	0.00	2.76				

Stage-Area-Storage for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
143.50	27,350	0	582.10	27,350	30,636
152.10	27,350	30,636	590.70	27,350	30,636
160.70	27,350	30,636	599.30	27,350	30,636
169.30	27,350	30,636	607.90	27,350	30,636
177.90	27,350	30,636	616.50	27,350	30,636
186.50	27,350	30,636	625.10	27,350	30,636
195.10	27,350	30,636	633.70	27,350	30,636
203.70	27,350	30,636	642.30	27,350	30,636
212.30	27,350	30,636	650.90	27,350	30,636
220.90	27,350	30,636	659.50	27,350	30,636
229.50	27,350	30,636	668.10	27,350	30,636
238.10	27,350	30,636	676.70	27,350	30,636
246.70	27,350	30,636	685.30	27,350	30,636
255.30	27,350	30,636	693.90	27,350	30,636
263.90	27,350	30,636	702.50	27,350	30,636
272.50	27,350	30,636	711.10	27,350	30,636
281.10	27,350	30,636	719.70	27,350	30,636
289.70	27,350	30,636	728.30	27,350	30,636
298.30	27,350	30,636	736.90	27,350	30,636
306.90	27,350	30,636	745.50	27,350	30,636
315.50	27,350	30,636	754.10	27,350	30,636
324.10	27,350	30,636	762.70	27,350	30,636
332.70	27,350	30,636	771.30	27,350	30,636
341.30	27,350	30,636	779.90	27,350	30,636
349.90	27,350	30,636	788.50	27,350	30,636
358.50	27,350	30,636	797.10	27,350	30,636
367.10	27,350	30,636	805.70	27,350	30,636
375.70	27,350	30,636	814.30	27,350	30,636
384.30	27,350	30,636	822.90	27,350	30,636
392.90	27,350	30,636	831.50	27,350	30,636
401.50	27,350	30,636	840.10	27,350	30,636
410.10	27,350	30,636	848.70	27,350	30,636
418.70	27,350	30,636	857.30	27,350	30,636
427.30	27,350	30,636	865.90	27,350	30,636
435.90	27,350	30,636	874.50	27,350	30,636
444.50	27,350	30,636	883.10	27,350	30,636
453.10	27,350	30,636	891.70	27,350	30,636
461.70	27,350	30,636	900.30	27,350	30,636
470.30	27,350	30,636	908.90	27,350	30,636
478.90	27,350	30,636	917.50	27,350	30,636
487.50	27,350	30,636	926.10	27,350	30,636
496.10	27,350	30,636	934.70	27,350	30,636
504.70	27,350	30,636	943.30	27,350	30,636
513.30	27,350	30,636	951.90	27,350	30,636
521.90	27,350	30,636	960.50	27,350	30,636
530.50	27,350	30,636	969.10	27,350	30,636
539.10	27,350	30,636	977.70	27,350	30,636
547.70	27,350	30,636	986.30	27,350	30,636
556.30	27,350	30,636	994.90	27,350	30,636
564.90	27,350	30,636			
573.50	27,350	30,636			

Summary for Pond 44P: P-300 Rainwater Garden

Inflow Area = 1.590 ac, 2.52% Impervious, Inflow Depth = 0.15" for 2-Year event
 Inflow = 0.04 cfs @ 12.59 hrs, Volume= 0.019 af
 Outflow = 0.02 cfs @ 17.51 hrs, Volume= 0.007 af, Atten= 52%, Lag= 295.1 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Primary = 0.02 cfs @ 17.51 hrs, Volume= 0.007 af

Routing by Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 147.16' @ 17.50 hrs Surf.Area= 3,592 sf Storage= 560 cf

Plug-Flow detention time= 545.7 min calculated for 0.007 af (34% of inflow)
 Center-of-Mass det. time= 291.1 min (1,249.9 - 958.9)

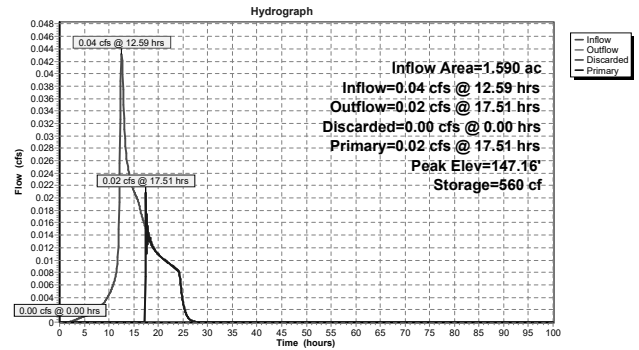
Volume	Invert	Avail.Storage	Storage Description
#1	147.00'	8,800 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.00	3,400	0	0
148.00	4,600	4,000	4,000
149.00	5,000	4,800	8,800

Device	Routing	Invert	Outlet Devices
#1	Discarded	1,000.00'	1,000 in/hr Exfiltration over Surface area above 1,000.00' Conductivity to Groundwater Elevation = 140.00' Excluded Surface area = 5,000 sf
#2	Primary	147.16'	Asymmetrical Weir, C= 3.27 Offset (feet) 1,100.00 1,150.00 1,200.00 1,255.00 Elev. (feet) 148.00 147.16 147.91 148.00

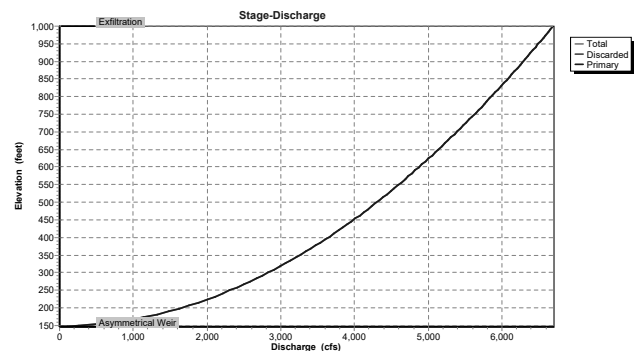
Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=147.00' (Free Discharge)
 1=Exfiltration (Controls 0.00 cfs)

Primary OutFlow Max=0.00 cfs @ 17.51 hrs HW=147.16' (Free Discharge)
 2=Asymmetrical Weir (Weir Controls 0.00 cfs @ 0.02 fps)

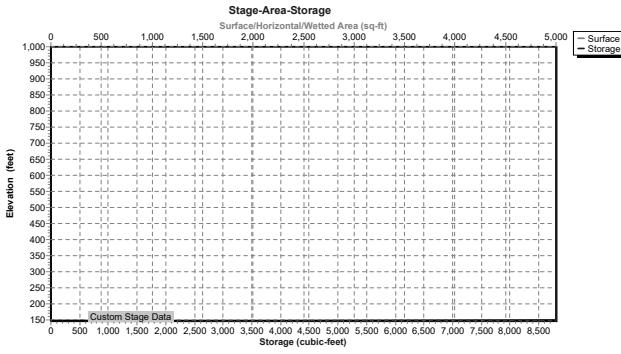
Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Hydrograph for Pond 44P: P-300 Rainwater Garden

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	147.00	0.00	0.00	0.00
2.00	0.00	0	147.00	0.00	0.00	0.00
4.00	0.00	2	147.00	0.00	0.00	0.00
6.00	0.00	9	147.00	0.00	0.00	0.00
8.00	0.00	21	147.01	0.00	0.00	0.00
10.00	0.00	44	147.01	0.00	0.00	0.00
12.00	0.01	95	147.03	0.00	0.00	0.00
14.00	0.02	321	147.09	0.00	0.00	0.00
16.00	0.02	475	147.14	0.00	0.00	0.00
18.00	0.01	560	147.16	0.01	0.00	0.01
20.00	0.01	560	147.16	0.01	0.00	0.01
22.00	0.01	560	147.16	0.01	0.00	0.01
24.00	0.01	560	147.16	0.01	0.00	0.01
26.00	0.00	559	147.16	0.00	0.00	0.00
28.00	0.00	559	147.16	0.00	0.00	0.00
30.00	0.00	559	147.16	0.00	0.00	0.00
32.00	0.00	559	147.16	0.00	0.00	0.00
34.00	0.00	559	147.16	0.00	0.00	0.00
36.00	0.00	559	147.16	0.00	0.00	0.00
38.00	0.00	559	147.16	0.00	0.00	0.00
40.00	0.00	559	147.16	0.00	0.00	0.00
42.00	0.00	559	147.16	0.00	0.00	0.00
44.00	0.00	559	147.16	0.00	0.00	0.00
46.00	0.00	559	147.16	0.00	0.00	0.00
48.00	0.00	559	147.16	0.00	0.00	0.00
50.00	0.00	559	147.16	0.00	0.00	0.00
52.00	0.00	559	147.16	0.00	0.00	0.00
54.00	0.00	559	147.16	0.00	0.00	0.00
56.00	0.00	559	147.16	0.00	0.00	0.00
58.00	0.00	559	147.16	0.00	0.00	0.00
60.00	0.00	559	147.16	0.00	0.00	0.00
62.00	0.00	559	147.16	0.00	0.00	0.00
64.00	0.00	559	147.16	0.00	0.00	0.00
66.00	0.00	559	147.16	0.00	0.00	0.00
68.00	0.00	559	147.16	0.00	0.00	0.00
70.00	0.00	559	147.16	0.00	0.00	0.00
72.00	0.00	559	147.16	0.00	0.00	0.00
74.00	0.00	559	147.16	0.00	0.00	0.00
76.00	0.00	559	147.16	0.00	0.00	0.00
78.00	0.00	559	147.16	0.00	0.00	0.00
80.00	0.00	559	147.16	0.00	0.00	0.00
82.00	0.00	559	147.16	0.00	0.00	0.00
84.00	0.00	559	147.16	0.00	0.00	0.00
86.00	0.00	559	147.16	0.00	0.00	0.00
88.00	0.00	559	147.16	0.00	0.00	0.00
90.00	0.00	559	147.16	0.00	0.00	0.00
92.00	0.00	559	147.16	0.00	0.00	0.00
94.00	0.00	559	147.16	0.00	0.00	0.00
96.00	0.00	559	147.16	0.00	0.00	0.00
98.00	0.00	559	147.16	0.00	0.00	0.00
100.00	0.00	559	147.16	0.00	0.00	0.00

Stage-Discharge for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
147.00	0.00	0.00	0.00	583.05	4,781.80	0.00	4,781.80
155.55	640.78	0.00	640.78	591.60	4,828.53	0.00	4,828.53
164.10	927.22	0.00	927.22	600.15	4,874.82	0.00	4,874.82
172.65	1,144.05	0.00	1,144.05	608.70	4,920.66	0.00	4,920.66
181.20	1,325.87	0.00	1,325.87	617.25	4,966.09	0.00	4,966.09
189.75	1,485.61	0.00	1,485.61	625.80	5,011.10	0.00	5,011.10
198.30	1,629.77	0.00	1,629.77	634.35	5,055.71	0.00	5,055.71
206.85	1,762.17	0.00	1,762.17	642.90	5,099.94	0.00	5,099.94
215.40	1,885.30	0.00	1,885.30	651.45	5,143.78	0.00	5,143.78
223.95	2,000.86	0.00	2,000.86	660.00	5,187.25	0.00	5,187.25
232.50	2,110.11	0.00	2,110.11	668.55	5,230.36	0.00	5,230.36
241.05	2,213.97	0.00	2,213.97	677.10	5,273.11	0.00	5,273.11
249.60	2,313.17	0.00	2,313.17	685.65	5,315.53	0.00	5,315.53
258.15	2,408.29	0.00	2,408.29	694.20	5,357.61	0.00	5,357.61
266.70	2,499.79	0.00	2,499.79	702.75	5,399.36	0.00	5,399.36
275.25	2,588.06	0.00	2,588.06	711.30	5,440.78	0.00	5,440.78
283.80	2,673.42	0.00	2,673.42	719.85	5,481.90	0.00	5,481.90
292.35	2,756.13	0.00	2,756.13	728.40	5,522.71	0.00	5,522.71
300.90	2,836.43	0.00	2,836.43	736.95	5,563.22	0.00	5,563.22
309.45	2,914.52	0.00	2,914.52	745.50	5,603.44	0.00	5,603.44
318.00	2,990.58	0.00	2,990.58	754.05	5,643.37	0.00	5,643.37
326.55	3,064.74	0.00	3,064.74	762.60	5,683.02	0.00	5,683.02
335.10	3,137.16	0.00	3,137.16	771.15	5,722.40	0.00	5,722.40
343.65	3,207.94	0.00	3,207.94	779.70	5,761.50	0.00	5,761.50
352.20	3,277.19	0.00	3,277.19	788.25	5,800.35	0.00	5,800.35
360.75	3,345.00	0.00	3,345.00	796.80	5,838.93	0.00	5,838.93
369.30	3,411.47	0.00	3,411.47	805.35	5,877.26	0.00	5,877.26
377.85	3,476.67	0.00	3,476.67	813.90	5,915.35	0.00	5,915.35
386.40	3,540.67	0.00	3,540.67	822.45	5,953.19	0.00	5,953.19
394.95	3,603.53	0.00	3,603.53	831.00	5,990.79	0.00	5,990.79
403.50	3,665.32	0.00	3,665.32	839.55	6,028.15	0.00	6,028.15
412.05	3,726.08	0.00	3,726.08	848.10	6,065.29	0.00	6,065.29
420.60	3,785.86	0.00	3,785.86	856.65	6,102.20	0.00	6,102.20
429.15	3,844.72	0.00	3,844.72	865.20	6,138.89	0.00	6,138.89
437.70	3,902.68	0.00	3,902.68	873.75	6,175.36	0.00	6,175.36
446.25	3,959.80	0.00	3,959.80	882.30	6,211.61	0.00	6,211.61
454.80	4,016.11	0.00	4,016.11	890.85	6,247.66	0.00	6,247.66
463.35	4,071.64	0.00	4,071.64	899.40	6,283.50	0.00	6,283.50
471.90	4,126.42	0.00	4,126.42	907.95	6,319.13	0.00	6,319.13
480.45	4,180.48	0.00	4,180.48	916.50	6,354.57	0.00	6,354.57
489.00	4,233.86	0.00	4,233.86	925.05	6,389.81	0.00	6,389.81
497.55	4,286.57	0.00	4,286.57	933.60	6,424.85	0.00	6,424.85
506.10	4,338.63	0.00	4,338.63	942.15	6,459.71	0.00	6,459.71
514.65	4,390.09	0.00	4,390.09	950.70	6,494.38	0.00	6,494.38
523.20	4,440.94	0.00	4,440.94	959.25	6,528.86	0.00	6,528.86
531.75	4,491.22	0.00	4,491.22	967.80	6,563.16	0.00	6,563.16
540.30	4,540.94	0.00	4,540.94	976.35	6,597.29	0.00	6,597.29
548.85	4,590.12	0.00	4,590.12	984.90	6,631.24	0.00	6,631.24
557.40	4,638.79	0.00	4,638.79	993.45	6,665.02	0.00	6,665.02
565.95	4,686.94	0.00	4,686.94				
574.50	4,734.61	0.00	4,734.61				

Stage-Area-Storage for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.00	3,400	0	583.05	5,000	8,800
155.55	5,000	8,800	591.60	5,000	8,800
164.10	5,000	8,800	600.15	5,000	8,800
172.65	5,000	8,800	608.70	5,000	8,800
181.20	5,000	8,800	617.25	5,000	8,800
189.75	5,000	8,800	625.80	5,000	8,800
198.30	5,000	8,800	634.35	5,000	8,800
206.85	5,000	8,800	642.90	5,000	8,800
215.40	5,000	8,800	651.45	5,000	8,800
223.95	5,000	8,800	660.00	5,000	8,800
232.50	5,000	8,800	668.55	5,000	8,800
241.05	5,000	8,800	677.10	5,000	8,80

Time span=0.00-100.00 hrs, dt=0.10 hrs, 1001 points
 Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: E-100 PERV	Runoff Area=2.270 ac 0.00% Impervious Runoff Depth=1.30" Flow Length=610' Tc=16.5 min CN=60 Runoff=1.55 cfs 0.246 af
Subcatchment2S: E-200 PERV	Runoff Area=3.720 ac 0.00% Impervious Runoff Depth=1.10" Flow Length=373' Tc=31.5 min CN=57 Runoff=1.46 cfs 0.342 af
Subcatchment3S: E-300 PERV	Runoff Area=1.590 ac 0.00% Impervious Runoff Depth=0.49" Flow Length=300' Slope=0.0100 1/100 Tc=40.2 min CN=46 Runoff=0.15 cfs 0.065 af
Subcatchment4S: E-400 PERV	Runoff Area=3.460 ac 0.00% Impervious Runoff Depth=0.11" Flow Length=150' Slope=0.0250 1/40 Tc=15.9 min CN=36 Runoff=0.05 cfs 0.031 af
Subcatchment45S: P-100 PERV	Runoff Area=1.760 ac 0.00% Impervious Runoff Depth=1.37" Flow Length=610' Tc=16.5 min CN=61 Runoff=1.28 cfs 0.201 af
Subcatchment46S: P-200 PERV	Runoff Area=3.190 ac 0.00% Impervious Runoff Depth=1.10" Flow Length=373' Tc=31.5 min CN=57 Runoff=1.25 cfs 0.294 af
Subcatchment47S: P-300 PERV	Runoff Area=1.550 ac 0.00% Impervious Runoff Depth=0.49" Flow Length=300' Slope=0.0100 1/100 Tc=40.2 min CN=46 Runoff=0.15 cfs 0.063 af
Subcatchment48S: P-400 PERV	Runoff Area=3.400 ac 0.00% Impervious Runoff Depth=0.11" Flow Length=150' Slope=0.0250 1/40 Tc=15.9 min CN=36 Runoff=0.05 cfs 0.031 af
Subcatchment49S: P-100 IMP	Runoff Area=0.510 ac 100.00% Impervious Runoff Depth=4.76" Flow Length=610' Tc=16.5 min CN=98 Runoff=1.31 cfs 0.202 af
Subcatchment50S: P-200 IMP	Runoff Area=0.530 ac 100.00% Impervious Runoff Depth=4.76" Flow Length=373' Tc=31.5 min CN=98 Runoff=1.00 cfs 0.210 af
Subcatchment51S: P-300 IMP	Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=4.76" Flow Length=300' Slope=0.0100 1/100 Tc=40.2 min CN=98 Runoff=0.07 cfs 0.016 af
Subcatchment52S: P-400 IMP	Runoff Area=0.060 ac 100.00% Impervious Runoff Depth=4.76" Flow Length=150' Slope=0.0250 1/40 Tc=15.9 min CN=98 Runoff=0.16 cfs 0.024 af
Reach 6R: E-100	Inflow=1.55 cfs 0.246 af Outflow=1.55 cfs 0.246 af
Reach 7R: E-200	Inflow=1.46 cfs 0.342 af Outflow=1.46 cfs 0.342 af
Reach 8R: E-300	Inflow=0.15 cfs 0.065 af Outflow=0.15 cfs 0.065 af
Reach 22R: E-400	Inflow=0.05 cfs 0.031 af Outflow=0.05 cfs 0.031 af

Reach 23R: E-POA "A"	Inflow=2.86 cfs 0.589 af Outflow=2.86 cfs 0.589 af
Reach 25R: E-POA "B"	Inflow=0.17 cfs 0.096 af Outflow=0.17 cfs 0.096 af
Reach 26R: E-POA	Inflow=2.95 cfs 0.685 af Outflow=2.95 cfs 0.685 af
Reach 38R: P-400	Inflow=0.16 cfs 0.055 af Outflow=0.16 cfs 0.055 af
Reach 39R: P-POA "A"	Inflow=2.68 cfs 0.893 af Outflow=2.68 cfs 0.893 af
Reach 40R: P-POA "B"	Inflow=0.41 cfs 0.121 af Outflow=0.41 cfs 0.121 af
Reach 41R: P-POA	Inflow=2.83 cfs 1.014 af Outflow=2.83 cfs 1.014 af
Reach 46R: P-100	Inflow=2.58 cfs 0.403 af Outflow=2.58 cfs 0.403 af
Pond 43P: P-200 Station 1450 Culvert	Peak Elev=148.21' Storage=13.525 cf Inflow=2.21 cfs 0.504 af Discarded=0.00 cfs 0.000 af Primary=0.17 cfs 0.490 af Outflow=0.17 cfs 0.490 af
Pond 44P: P-300 Rainwater Garden	Peak Elev=147.16' Storage=569 cf Inflow=0.21 cfs 0.079 af Discarded=0.00 cfs 0.000 af Primary=0.35 cfs 0.066 af Outflow=0.35 cfs 0.066 af
Total Runoff Area = 22.080 ac Runoff Volume = 1.725 af Average Runoff Depth = 0.94" 94.84% Pervious = 20.940 ac 5.16% Impervious = 1.140 ac	

Summary for Subcatchment 1S: E-100 PERV

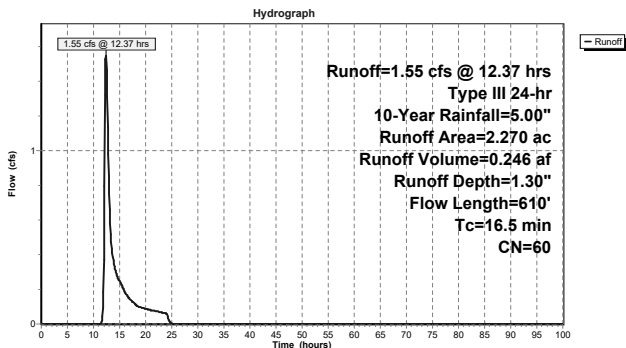
Runoff = 1.55 cfs @ 12.37 hrs, Volume= 0.246 af, Depth= 1.30"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
0.420	55	Woods, Good, HSG B
1.850	61	>75% Grass cover, Good, HSG B
2.270	60	Weighted Average
2.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 1S: E-100 PERV



Hydrograph for Subcatchment 1S: E-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	1.30	0.00
1.00	0.05	0.00	0.00	52.00	5.00	1.30	0.00
2.00	0.10	0.00	0.00	53.00	5.00	1.30	0.00
3.00	0.15	0.00	0.00	54.00	5.00	1.30	0.00
4.00	0.22	0.00	0.00	55.00	5.00	1.30	0.00
5.00	0.28	0.00	0.00	56.00	5.00	1.30	0.00
6.00	0.38	0.00	0.00	57.00	5.00	1.30	0.00
7.00	0.45	0.00	0.00	58.00	5.00	1.30	0.00
8.00	0.57	0.00	0.00	59.00	5.00	1.30	0.00
9.00	0.73	0.00	0.00	60.00	5.00	1.30	0.00
10.00	0.95	0.00	0.00	61.00	5.00	1.30	0.00
11.00	1.25	0.00	0.00	62.00	5.00	1.30	0.00
12.00	2.50	0.17	0.37	63.00	5.00	1.30	0.00
13.00	3.75	0.64	0.75	64.00	5.00	1.30	0.00
14.00	4.06	0.79	0.33	65.00	5.00	1.30	0.00
15.00	4.27	0.90	0.25	66.00	5.00	1.30	0.00
16.00	4.43	0.98	0.19	67.00	5.00	1.30	0.00
17.00	4.55	1.05	0.14	68.00	5.00	1.30	0.00
18.00	4.64	1.10	0.11	69.00	5.00	1.30	0.00
19.00	4.72	1.14	0.10	70.00	5.00	1.30	0.00
20.00	4.79	1.18	0.09	71.00	5.00	1.30	0.00
21.00	4.85	1.21	0.08	72.00	5.00	1.30	0.00
22.00	4.90	1.25	0.07	73.00	5.00	1.30	0.00
23.00	4.95	1.27	0.07	74.00	5.00	1.30	0.00
24.00	5.00	1.30	0.06	75.00	5.00	1.30	0.00
25.00	5.00	1.30	0.00	76.00	5.00	1.30	0.00
26.00	5.00	1.30	0.00	77.00	5.00	1.30	0.00
27.00	5.00	1.30	0.00	78.00	5.00	1.30	0.00
28.00	5.00	1.30	0.00	79.00	5.00	1.30	0.00
29.00	5.00	1.30	0.00	80.00	5.00	1.30	0.00
30.00	5.00	1.30	0.00	81.00	5.00	1.30	0.00
31.00	5.00	1.30	0.00	82.00	5.00	1.30	0.00
32.00	5.00	1.30	0.00	83.00	5.00	1.30	0.00
33.00	5.00	1.30	0.00	84.00	5.00	1.30	0.00
34.00	5.00	1.30	0.00	85.00	5.00	1.30	0.00
35.00	5.00	1.30	0.00	86.00	5.00	1.30	0.00
36.00	5.00	1.30	0.00	87.00	5.00	1.30	0.00
37.00	5.00	1.30	0.00	88.00	5.00	1.30	0.00
38.00	5.00	1.30	0.00	89.00	5.00	1.30	0.00
39.00	5.00	1.30	0.00	90.00	5.00	1.30	0.00
40.00	5.00	1.30	0.00	91.00	5.00	1.30	0.00
41.00	5.00	1.30	0.00	92.00	5.00	1.30	0.00
42.00	5.00	1.30	0.00	93.00	5.00	1.30	0.00
43.00	5.00	1.30	0.00	94.00	5.00	1.30	0.00
44.00	5.00	1.30	0.00	95.00	5.00	1.30	0.00
45.00	5.00	1.30	0.00	96.00	5.00	1.30	0.00
46.00	5.00	1.30	0.00	97.00	5.00	1.30	0.00
47.00	5.00	1.30	0.00	98.00	5.00	1.30	0.00
48.00	5.00	1.30	0.00	99.00	5.00	1.30	0.00
49.00	5.00	1.30	0.00	100.00	5.00	1.30	0.00
50.00	5.00	1.30	0.00				

Summary for Subcatchment 2S: E-200 PERV

Runoff = 1.46 cfs @ 12.63 hrs, Volume= 0.342 af, Depth= 1.10"

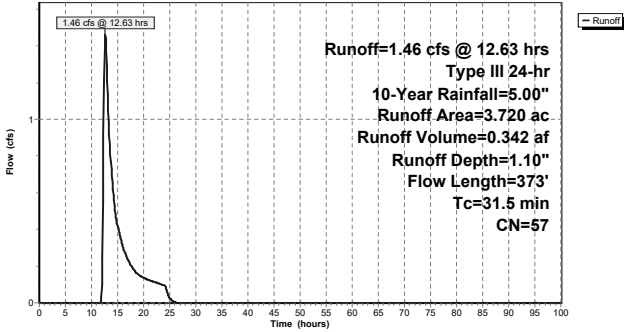
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
2.400	55	Woods, Good, HSG B
0.010	30	Woods, Good, HSG A
1.310	61	>75% Grass cover, Good, HSG B
3.720	57	Weighted Average
3.720		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373	Total			

Subcatchment 2S: E-200 PERV

Hydrograph



Hydrograph for Subcatchment 2S: E-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	1.10	0.00
1.00	0.05	0.00	0.00	52.00	5.00	1.10	0.00
2.00	0.10	0.00	0.00	53.00	5.00	1.10	0.00
3.00	0.15	0.00	0.00	54.00	5.00	1.10	0.00
4.00	0.22	0.00	0.00	55.00	5.00	1.10	0.00
5.00	0.28	0.00	0.00	56.00	5.00	1.10	0.00
6.00	0.36	0.00	0.00	57.00	5.00	1.10	0.00
7.00	0.45	0.00	0.00	58.00	5.00	1.10	0.00
8.00	0.57	0.00	0.00	59.00	5.00	1.10	0.00
9.00	0.73	0.00	0.00	60.00	5.00	1.10	0.00
10.00	0.95	0.00	0.00	61.00	5.00	1.10	0.00
11.00	1.25	0.00	0.00	62.00	5.00	1.10	0.00
12.00	2.50	0.12	0.10	63.00	5.00	1.10	0.00
13.00	3.75	0.51	1.20	64.00	5.00	1.10	0.00
14.00	4.06	0.64	0.65	65.00	5.00	1.10	0.00
15.00	4.27	0.74	0.42	66.00	5.00	1.10	0.00
16.00	4.43	0.82	0.31	67.00	5.00	1.10	0.00
17.00	4.55	0.87	0.23	68.00	5.00	1.10	0.00
18.00	4.64	0.92	0.19	69.00	5.00	1.10	0.00
19.00	4.72	0.96	0.15	70.00	5.00	1.10	0.00
20.00	4.79	0.99	0.14	71.00	5.00	1.10	0.00
21.00	4.85	1.02	0.12	72.00	5.00	1.10	0.00
22.00	4.90	1.05	0.11	73.00	5.00	1.10	0.00
23.00	4.95	1.08	0.10	74.00	5.00	1.10	0.00
24.00	5.00	1.10	0.09	75.00	5.00	1.10	0.00
25.00	5.00	1.10	0.03	76.00	5.00	1.10	0.00
26.00	5.00	1.10	0.00	77.00	5.00	1.10	0.00
27.00	5.00	1.10	0.00	78.00	5.00	1.10	0.00
28.00	5.00	1.10	0.00	79.00	5.00	1.10	0.00
29.00	5.00	1.10	0.00	80.00	5.00	1.10	0.00
30.00	5.00	1.10	0.00	81.00	5.00	1.10	0.00
31.00	5.00	1.10	0.00	82.00	5.00	1.10	0.00
32.00	5.00	1.10	0.00	83.00	5.00	1.10	0.00
33.00	5.00	1.10	0.00	84.00	5.00	1.10	0.00
34.00	5.00	1.10	0.00	85.00	5.00	1.10	0.00
35.00	5.00	1.10	0.00	86.00	5.00	1.10	0.00
36.00	5.00	1.10	0.00	87.00	5.00	1.10	0.00
37.00	5.00	1.10	0.00	88.00	5.00	1.10	0.00
38.00	5.00	1.10	0.00	89.00	5.00	1.10	0.00
39.00	5.00	1.10	0.00	90.00	5.00	1.10	0.00
40.00	5.00	1.10	0.00	91.00	5.00	1.10	0.00
41.00	5.00	1.10	0.00	92.00	5.00	1.10	0.00
42.00	5.00	1.10	0.00	93.00	5.00	1.10	0.00
43.00	5.00	1.10	0.00	94.00	5.00	1.10	0.00
44.00	5.00	1.10	0.00	95.00	5.00	1.10	0.00
45.00	5.00	1.10	0.00	96.00	5.00	1.10	0.00
46.00	5.00	1.10	0.00	97.00	5.00	1.10	0.00
47.00	5.00	1.10	0.00	98.00	5.00	1.10	0.00
48.00	5.00	1.10	0.00	99.00	5.00	1.10	0.00
49.00	5.00	1.10	0.00	100.00	5.00	1.10	0.00
50.00	5.00	1.10	0.00				

Summary for Subcatchment 3S: E-300 PERV

Runoff = 0.15 cfs @ 12.99 hrs, Volume= 0.065 af, Depth= 0.49"

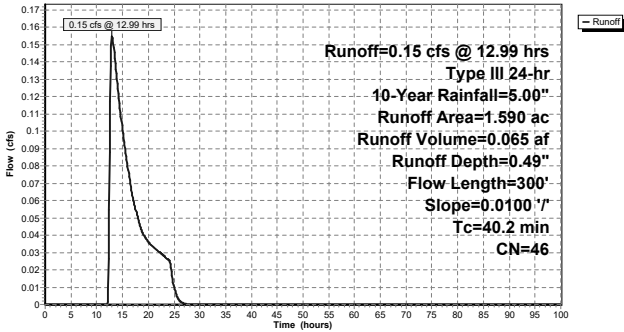
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	Pasture/grassland/range, Good, HSG B
0.940	39	Pasture/grassland/range, Good, HSG A
1.590	46	Weighted Average
1.590		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300	Total			

Subcatchment 3S: E-300 PERV

Hydrograph



Hydrograph for Subcatchment 3S: E-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	0.49	0.00
1.00	0.05	0.00	0.00	52.00	5.00	0.49	0.00
2.00	0.10	0.00	0.00	53.00	5.00	0.49	0.00
3.00	0.15	0.00	0.00	54.00	5.00	0.49	0.00
4.00	0.22	0.00	0.00	55.00	5.00	0.49	0.00
5.00	0.28	0.00	0.00	56.00	5.00	0.49	0.00
6.00	0.36	0.00	0.00	57.00	5.00	0.49	0.00
7.00	0.45	0.00	0.00	58.00	5.00	0.49	0.00
8.00	0.57	0.00	0.00	59.00	5.00	0.49	0.00
9.00	0.73	0.00	0.00	60.00	5.00	0.49	0.00
10.00	0.95	0.00	0.00	61.00	5.00	0.49	0.00
11.00	1.25	0.00	0.00	62.00	5.00	0.49	0.00
12.00	2.50	0.00	0.00	63.00	5.00	0.49	0.00
13.00	3.75	0.15	0.15	64.00	5.00	0.49	0.00
14.00	4.06	0.22	0.13	65.00	5.00	0.49	0.00
15.00	4.27	0.27	0.10	66.00	5.00	0.49	0.00
16.00	4.43	0.31	0.08	67.00	5.00	0.49	0.00
17.00	4.55	0.35	0.06	68.00	5.00	0.49	0.00
18.00	4.64	0.37	0.05	69.00	5.00	0.49	0.00
19.00	4.72	0.40	0.04	70.00	5.00	0.49	0.00
20.00	4.79	0.42	0.04	71.00	5.00	0.49	0.00
21.00	4.85	0.44	0.03	72.00	5.00	0.49	0.00
22.00	4.90	0.46	0.03	73.00	5.00	0.49	0.00
23.00	4.95	0.47	0.03	74.00	5.00	0.49	0.00
24.00	5.00	0.49	0.03	75.00	5.00	0.49	0.00
25.00	5.00	0.49	0.01	76.00	5.00	0.49	0.00
26.00	5.00	0.49	0.00	77.00	5.00	0.49	0.00
27.00	5.00	0.49	0.00	78.00	5.00	0.49	0.00
28.00	5.00	0.49	0.00	79.00	5.00	0.49	0.00
29.00	5.00	0.49	0.00	80.00	5.00	0.49	0.00
30.00	5.00	0.49	0.00	81.00	5.00	0.49	0.00
31.00	5.00	0.49	0.00	82.00	5.00	0.49	0.00
32.00	5.00	0.49	0.00	83.00	5.00	0.49	0.00
33.00	5.00	0.49	0.00	84.00	5.00	0.49	0.00
34.00	5.00	0.49	0.00	85.00	5.00	0.49	0.00
35.00	5.00	0.49	0.00	86.00	5.00	0.49	0.00
36.00	5.00	0.49	0.00	87.00	5.00	0.49	0.00
37.00	5.00	0.49	0.00	88.00	5.00	0.49	0.00
38.00	5.00	0.49	0.00	89.00	5.00	0.49	0.00
39.00	5.00	0.49	0.00	90.00	5.00	0.49	0.00
40.00	5.00	0.49	0.00	91.00	5.00	0.49	0.00
41.00	5.00	0.49	0.00	92.00	5.00	0.49	0.00
42.00	5.00	0.49	0.00	93.00	5.00	0.49	0.00
43.00	5.00	0.49	0.00	94.00	5.00	0.49	0.00
44.00	5.00	0.49	0.00	95.00	5.00	0.49	0.00
45.00	5.00	0.49	0.00	96.00	5.00	0.49	0.00
46.00	5.00	0.49	0.00	97.00	5.00	0.49	0.00
47.00	5.00	0.49	0.00	98.00	5.00	0.49	0.00
48.00	5.00	0.49	0.00	99.00	5.00	0.49	0.00
49.00	5.00	0.49	0.00	100.00	5.00	0.49	0.00
50.00	5.00	0.49	0.00				

Summary for Subcatchment 4S: E-400 PERV

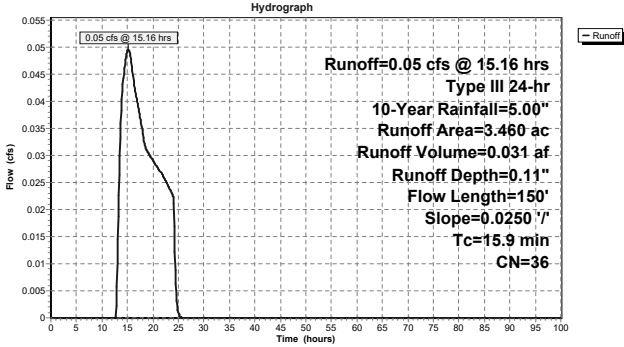
Runoff = 0.05 cfs @ 15.16 hrs, Volume= 0.031 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.980	39	Pasture/grassland/range_Good, HSG A
3.460	36	Weighted Average
3.460		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 4S: E-400 PERV



Hydrograph for Subcatchment 4S: E-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	0.11	0.00
1.00	0.05	0.00	0.00	52.00	5.00	0.11	0.00
2.00	0.10	0.00	0.00	53.00	5.00	0.11	0.00
3.00	0.15	0.00	0.00	54.00	5.00	0.11	0.00
4.00	0.22	0.00	0.00	55.00	5.00	0.11	0.00
5.00	0.28	0.00	0.00	56.00	5.00	0.11	0.00
6.00	0.36	0.00	0.00	57.00	5.00	0.11	0.00
7.00	0.45	0.00	0.00	58.00	5.00	0.11	0.00
8.00	0.57	0.00	0.00	59.00	5.00	0.11	0.00
9.00	0.73	0.00	0.00	60.00	5.00	0.11	0.00
10.00	0.95	0.00	0.00	61.00	5.00	0.11	0.00
11.00	1.25	0.00	0.00	62.00	5.00	0.11	0.00
12.00	2.50	0.00	0.00	63.00	5.00	0.11	0.00
13.00	3.75	0.00	0.01	64.00	5.00	0.11	0.00
14.00	4.06	0.01	0.04	65.00	5.00	0.11	0.00
15.00	4.27	0.03	0.05	66.00	5.00	0.11	0.00
16.00	4.43	0.04	0.05	67.00	5.00	0.11	0.00
17.00	4.55	0.05	0.04	68.00	5.00	0.11	0.00
18.00	4.64	0.06	0.03	69.00	5.00	0.11	0.00
19.00	4.72	0.07	0.03	70.00	5.00	0.11	0.00
20.00	4.79	0.08	0.03	71.00	5.00	0.11	0.00
21.00	4.85	0.09	0.03	72.00	5.00	0.11	0.00
22.00	4.90	0.10	0.03	73.00	5.00	0.11	0.00
23.00	4.95	0.10	0.02	74.00	5.00	0.11	0.00
24.00	5.00	0.11	0.02	75.00	5.00	0.11	0.00
25.00	5.00	0.11	0.00	76.00	5.00	0.11	0.00
26.00	5.00	0.11	0.00	77.00	5.00	0.11	0.00
27.00	5.00	0.11	0.00	78.00	5.00	0.11	0.00
28.00	5.00	0.11	0.00	79.00	5.00	0.11	0.00
29.00	5.00	0.11	0.00	80.00	5.00	0.11	0.00
30.00	5.00	0.11	0.00	81.00	5.00	0.11	0.00
31.00	5.00	0.11	0.00	82.00	5.00	0.11	0.00
32.00	5.00	0.11	0.00	83.00	5.00	0.11	0.00
33.00	5.00	0.11	0.00	84.00	5.00	0.11	0.00
34.00	5.00	0.11	0.00	85.00	5.00	0.11	0.00
35.00	5.00	0.11	0.00	86.00	5.00	0.11	0.00
36.00	5.00	0.11	0.00	87.00	5.00	0.11	0.00
37.00	5.00	0.11	0.00	88.00	5.00	0.11	0.00
38.00	5.00	0.11	0.00	89.00	5.00	0.11	0.00
39.00	5.00	0.11	0.00	90.00	5.00	0.11	0.00
40.00	5.00	0.11	0.00	91.00	5.00	0.11	0.00
41.00	5.00	0.11	0.00	92.00	5.00	0.11	0.00
42.00	5.00	0.11	0.00	93.00	5.00	0.11	0.00
43.00	5.00	0.11	0.00	94.00	5.00	0.11	0.00
44.00	5.00	0.11	0.00	95.00	5.00	0.11	0.00
45.00	5.00	0.11	0.00	96.00	5.00	0.11	0.00
46.00	5.00	0.11	0.00	97.00	5.00	0.11	0.00
47.00	5.00	0.11	0.00	98.00	5.00	0.11	0.00
48.00	5.00	0.11	0.00	99.00	5.00	0.11	0.00
49.00	5.00	0.11	0.00	100.00	5.00	0.11	0.00
50.00	5.00	0.11	0.00				

Summary for Subcatchment 45S: P-100 PERV

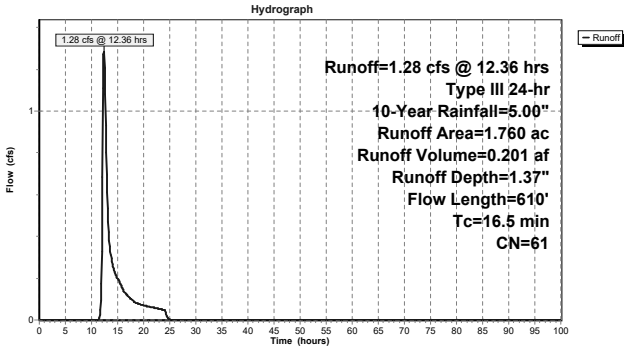
Runoff = 1.28 cfs @ 12.36 hrs, Volume= 0.201 af, Depth= 1.37"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
0.130	55	Woods, Good, HSG B
1.630	61	>75% Grass cover, Good, HSG B
1.760	61	Weighted Average
1.760		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 45S: P-100 PERV



Hydrograph for Subcatchment 45S: P-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	1.37	0.00
1.00	0.05	0.00	0.00	52.00	5.00	1.37	0.00
2.00	0.10	0.00	0.00	53.00	5.00	1.37	0.00
3.00	0.15	0.00	0.00	54.00	5.00	1.37	0.00
4.00	0.22	0.00	0.00	55.00	5.00	1.37	0.00
5.00	0.28	0.00	0.00	56.00	5.00	1.37	0.00
6.00	0.36	0.00	0.00	57.00	5.00	1.37	0.00
7.00	0.45	0.00	0.00	58.00	5.00	1.37	0.00
8.00	0.57	0.00	0.00	59.00	5.00	1.37	0.00
9.00	0.73	0.00	0.00	60.00	5.00	1.37	0.00
10.00	0.95	0.00	0.00	61.00	5.00	1.37	0.00
11.00	1.25	0.00	0.00	62.00	5.00	1.37	0.00
12.00	2.50	0.20	0.33	63.00	5.00	1.37	0.00
13.00	3.75	0.69	0.61	64.00	5.00	1.37	0.00
14.00	4.06	0.94	0.27	65.00	5.00	1.37	0.00
15.00	4.27	0.95	0.20	66.00	5.00	1.37	0.00
16.00	4.43	1.04	0.15	67.00	5.00	1.37	0.00
17.00	4.55	1.11	0.11	68.00	5.00	1.37	0.00
18.00	4.64	1.16	0.09	69.00	5.00	1.37	0.00
19.00	4.72	1.20	0.08	70.00	5.00	1.37	0.00
20.00	4.79	1.24	0.07	71.00	5.00	1.37	0.00
21.00	4.85	1.28	0.06	72.00	5.00	1.37	0.00
22.00	4.90	1.31	0.06	73.00	5.00	1.37	0.00
23.00	4.95	1.34	0.05	74.00	5.00	1.37	0.00
24.00	5.00	1.37	0.05	75.00	5.00	1.37	0.00
25.00	5.00	1.37	0.00	76.00	5.00	1.37	0.00
26.00	5.00	1.37	0.00	77.00	5.00	1.37	0.00
27.00	5.00	1.37	0.00	78.00	5.00	1.37	0.00
28.00	5.00	1.37	0.00	79.00	5.00	1.37	0.00
29.00	5.00	1.37	0.00	80.00	5.00	1.37	0.00
30.00	5.00	1.37	0.00	81.00	5.00	1.37	0.00
31.00	5.00	1.37	0.00	82.00	5.00	1.37	0.00
32.00	5.00	1.37	0.00	83.00	5.00	1.37	0.00
33.00	5.00	1.37	0.00	84.00	5.00	1.37	0.00
34.00	5.00	1.37	0.00	85.00	5.00	1.37	0.00
35.00	5.00	1.37	0.00	86.00	5.00	1.37	0.00
36.00	5.00	1.37	0.00	87.00	5.00	1.37	0.00
37.00	5.00	1.37	0.00	88.00	5.00	1.37	0.00
38.00	5.00	1.37	0.00	89.00	5.00	1.37	0.00
39.00	5.00	1.37	0.00	90.00	5.00	1.37	0.00
40.00	5.00	1.37	0.00	91.00	5.00	1.37	0.00
41.00	5.00	1.37	0.00	92.00	5.00	1.37	0.00
42.00	5.00	1.37	0.00	93.00	5.00	1.37	0.00
43.00	5.00	1.37	0.00	94.00	5.00	1.37	0.00
44.00	5.00	1.37	0.00	95.00	5.00	1.37	0.00
45.00	5.00	1.37	0.00	96.00	5.00	1.37	0.00
46.00	5.00	1.37	0.00	97.00	5.00	1.37	0.00
47.00	5.00	1.37	0.00	98.00	5.00	1.37	0.00
48.00	5.00	1.37	0.00	99.00	5.00	1.37	0.00
49.00	5.00	1.37	0.00	100.00	5.00	1.37	0.00
50.00	5.00	1.37	0.00				

Summary for Subcatchment 46S: P-200 PERV

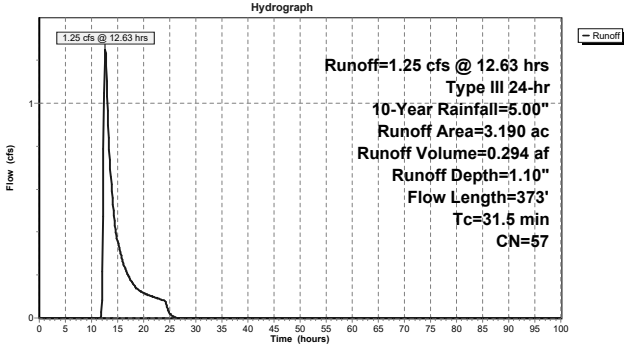
Runoff = 1.25 cfs @ 12.63 hrs, Volume= 0.294 af, Depth= 1.10"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
2.070	55	Woods, Good, HSG B
0.000	30	Woods, Good, HSG A
1.110	61	>75% Grass cover, Good, HSG B
0.010	39	>75% Grass cover, Good, HSG A
3.190	57	Weighted Average
3.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 46S: P-200 PERV



Hydrograph for Subcatchment 46S: P-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	1.10	0.00
1.00	0.05	0.00	0.00	52.00	5.00	1.10	0.00
2.00	0.10	0.00	0.00	53.00	5.00	1.10	0.00
3.00	0.15	0.00	0.00	54.00	5.00	1.10	0.00
4.00	0.22	0.00	0.00	55.00	5.00	1.10	0.00
5.00	0.28	0.00	0.00	56.00	5.00	1.10	0.00
6.00	0.36	0.00	0.00	57.00	5.00	1.10	0.00
7.00	0.45	0.00	0.00	58.00	5.00	1.10	0.00
8.00	0.57	0.00	0.00	59.00	5.00	1.10	0.00
9.00	0.73	0.00	0.00	60.00	5.00	1.10	0.00
10.00	0.95	0.00	0.00	61.00	5.00	1.10	0.00
11.00	1.25	0.00	0.00	62.00	5.00	1.10	0.00
12.00	2.50	0.12	0.08	63.00	5.00	1.10	0.00
13.00	3.75	0.51	1.03	64.00	5.00	1.10	0.00
14.00	4.06	0.64	0.56	65.00	5.00	1.10	0.00
15.00	4.27	0.74	0.36	66.00	5.00	1.10	0.00
16.00	4.43	0.82	0.27	67.00	5.00	1.10	0.00
17.00	4.55	0.87	0.20	68.00	5.00	1.10	0.00
18.00	4.64	0.92	0.16	69.00	5.00	1.10	0.00
19.00	4.72	0.96	0.13	70.00	5.00	1.10	0.00
20.00	4.79	0.99	0.12	71.00	5.00	1.10	0.00
21.00	4.85	1.02	0.11	72.00	5.00	1.10	0.00
22.00	4.90	1.05	0.10	73.00	5.00	1.10	0.00
23.00	4.95	1.08	0.09	74.00	5.00	1.10	0.00
24.00	5.00	1.10	0.08	75.00	5.00	1.10	0.00
25.00	5.00	1.10	0.02	76.00	5.00	1.10	0.00
26.00	5.00	1.10	0.00	77.00	5.00	1.10	0.00
27.00	5.00	1.10	0.00	78.00	5.00	1.10	0.00
28.00	5.00	1.10	0.00	79.00	5.00	1.10	0.00
29.00	5.00	1.10	0.00	80.00	5.00	1.10	0.00
30.00	5.00	1.10	0.00	81.00	5.00	1.10	0.00
31.00	5.00	1.10	0.00	82.00	5.00	1.10	0.00
32.00	5.00	1.10	0.00	83.00	5.00	1.10	0.00
33.00	5.00	1.10	0.00	84.00	5.00	1.10	0.00
34.00	5.00	1.10	0.00	85.00	5.00	1.10	0.00
35.00	5.00	1.10	0.00	86.00	5.00	1.10	0.00
36.00	5.00	1.10	0.00	87.00	5.00	1.10	0.00
37.00	5.00	1.10	0.00	88.00	5.00	1.10	0.00
38.00	5.00	1.10	0.00	89.00	5.00	1.10	0.00
39.00	5.00	1.10	0.00	90.00	5.00	1.10	0.00
40.00	5.00	1.10	0.00	91.00	5.00	1.10	0.00
41.00	5.00	1.10	0.00	92.00	5.00	1.10	0.00
42.00	5.00	1.10	0.00	93.00	5.00	1.10	0.00
43.00	5.00	1.10	0.00	94.00	5.00	1.10	0.00
44.00	5.00	1.10	0.00	95.00	5.00	1.10	0.00
45.00	5.00	1.10	0.00	96.00	5.00	1.10	0.00
46.00	5.00	1.10	0.00	97.00	5.00	1.10	0.00
47.00	5.00	1.10	0.00	98.00	5.00	1.10	0.00
48.00	5.00	1.10	0.00	99.00	5.00	1.10	0.00
49.00	5.00	1.10	0.00	100.00	5.00	1.10	0.00
50.00	5.00	1.10	0.00				

Summary for Subcatchment 47S: P-300 PERV

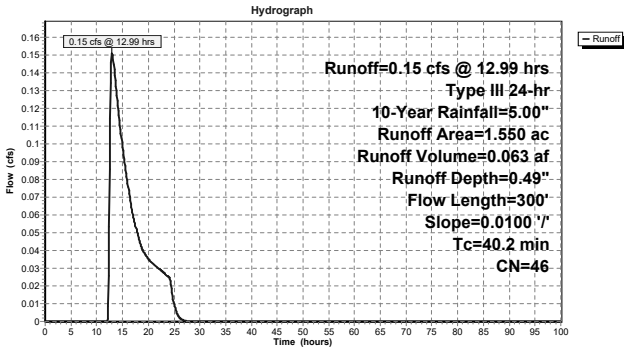
Runoff = 0.15 cfs @ 12.99 hrs, Volume= 0.063 af, Depth= 0.49"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	>75% Grass cover, Good, HSG B
0.900	39	>75% Grass cover, Good, HSG A
1.550	46	Weighted Average
1.550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 47S: P-300 PERV



Hydrograph for Subcatchment 47S: P-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	0.49	0.00
1.00	0.05	0.00	0.00	52.00	5.00	0.49	0.00
2.00	0.10	0.00	0.00	53.00	5.00	0.49	0.00
3.00	0.15	0.00	0.00	54.00	5.00	0.49	0.00
4.00	0.22	0.00	0.00	55.00	5.00	0.49	0.00
5.00	0.28	0.00	0.00	56.00	5.00	0.49	0.00
6.00	0.36	0.00	0.00	57.00	5.00	0.49	0.00
7.00	0.45	0.00	0.00	58.00	5.00	0.49	0.00
8.00	0.57	0.00	0.00	59.00	5.00	0.49	0.00
9.00	0.73	0.00	0.00	60.00	5.00	0.49	0.00
10.00	0.95	0.00	0.00	61.00	5.00	0.49	0.00
11.00	1.25	0.00	0.00	62.00	5.00	0.49	0.00
12.00	2.50	0.00	0.00	63.00	5.00	0.49	0.00
13.00	3.75	0.15	0.15	64.00	5.00	0.49	0.00
14.00	4.06	0.22	0.12	65.00	5.00	0.49	0.00
15.00	4.27	0.27	0.10	66.00	5.00	0.49	0.00
16.00	4.43	0.31	0.08	67.00	5.00	0.49	0.00
17.00	4.55	0.35	0.06	68.00	5.00	0.49	0.00
18.00	4.64	0.37	0.05	69.00	5.00	0.49	0.00
19.00	4.72	0.40	0.04	70.00	5.00	0.49	0.00
20.00	4.79	0.42	0.04	71.00	5.00	0.49	0.00
21.00	4.85	0.44	0.03	72.00	5.00	0.49	0.00
22.00	4.90	0.46	0.03	73.00	5.00	0.49	0.00
23.00	4.95	0.47	0.03	74.00	5.00	0.49	0.00
24.00	5.00	0.49	0.02	75.00	5.00	0.49	0.00
25.00	5.00	0.49	0.01	76.00	5.00	0.49	0.00
26.00	5.00	0.49	0.00	77.00	5.00	0.49	0.00
27.00	5.00	0.49	0.00	78.00	5.00	0.49	0.00
28.00	5.00	0.49	0.00	79.00	5.00	0.49	0.00
29.00	5.00	0.49	0.00	80.00	5.00	0.49	0.00
30.00	5.00	0.49	0.00	81.00	5.00	0.49	0.00
31.00	5.00	0.49	0.00	82.00	5.00	0.49	0.00
32.00	5.00	0.49	0.00	83.00	5.00	0.49	0.00
33.00	5.00	0.49	0.00	84.00	5.00	0.49	0.00
34.00	5.00	0.49	0.00	85.00	5.00	0.49	0.00
35.00	5.00	0.49	0.00	86.00	5.00	0.49	0.00
36.00	5.00	0.49	0.00	87.00	5.00	0.49	0.00
37.00	5.00	0.49	0.00	88.00	5.00	0.49	0.00
38.00	5.00	0.49	0.00	89.00	5.00	0.49	0.00
39.00	5.00	0.49	0.00	90.00	5.00	0.49	0.00
40.00	5.00	0.49	0.00	91.00	5.00	0.49	0.00
41.00	5.00	0.49	0.00	92.00	5.00	0.49	0.00
42.00	5.00	0.49	0.00	93.00	5.00	0.49	0.00
43.00	5.00	0.49	0.00	94.00	5.00	0.49	0.00
44.00	5.00	0.49	0.00	95.00	5.00	0.49	0.00
45.00	5.00	0.49	0.00	96.00	5.00	0.49	0.00
46.00	5.00	0.49	0.00	97.00	5.00	0.49	0.00
47.00	5.00	0.49	0.00	98.00	5.00	0.49	0.00
48.00	5.00	0.49	0.00	99.00	5.00	0.49	0.00
49.00	5.00	0.49	0.00	100.00	5.00	0.49	0.00
50.00	5.00	0.49	0.00				

Summary for Subcatchment 48S: P-400 PERV

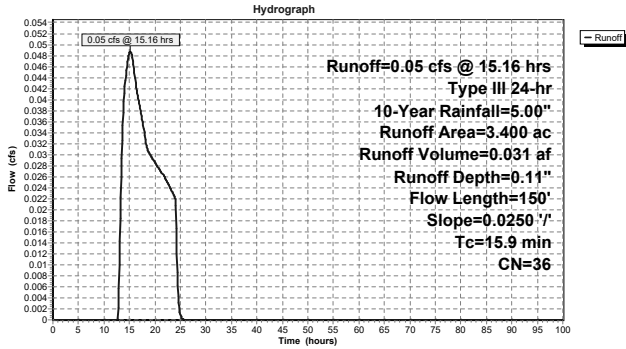
Runoff = 0.05 cfs @ 15.16 hrs, Volume= 0.031 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.920	39	>75% Grass cover, Good, HSG A
3.400	36	Weighted Average
3.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 48S: P-400 PERV



Hydrograph for Subcatchment 48S: P-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	0.11	0.00
1.00	0.05	0.00	0.00	52.00	5.00	0.11	0.00
2.00	0.10	0.00	0.00	53.00	5.00	0.11	0.00
3.00	0.15	0.00	0.00	54.00	5.00	0.11	0.00
4.00	0.22	0.00	0.00	55.00	5.00	0.11	0.00
5.00	0.28	0.00	0.00	56.00	5.00	0.11	0.00
6.00	0.36	0.00	0.00	57.00	5.00	0.11	0.00
7.00	0.45	0.00	0.00	58.00	5.00	0.11	0.00
8.00	0.57	0.00	0.00	59.00	5.00	0.11	0.00
9.00	0.73	0.00	0.00	60.00	5.00	0.11	0.00
10.00	0.95	0.00	0.00	61.00	5.00	0.11	0.00
11.00	1.25	0.00	0.00	62.00	5.00	0.11	0.00
12.00	2.50	0.00	0.00	63.00	5.00	0.11	0.00
13.00	3.75	0.00	0.01	64.00	5.00	0.11	0.00
14.00	4.06	0.01	0.04	65.00	5.00	0.11	0.00
15.00	4.27	0.03	0.05	66.00	5.00	0.11	0.00
16.00	4.43	0.04	0.04	67.00	5.00	0.11	0.00
17.00	4.55	0.05	0.04	68.00	5.00	0.11	0.00
18.00	4.64	0.06	0.03	69.00	5.00	0.11	0.00
19.00	4.72	0.07	0.03	70.00	5.00	0.11	0.00
20.00	4.79	0.08	0.03	71.00	5.00	0.11	0.00
21.00	4.85	0.09	0.03	72.00	5.00	0.11	0.00
22.00	4.90	0.10	0.03	73.00	5.00	0.11	0.00
23.00	4.95	0.10	0.02	74.00	5.00	0.11	0.00
24.00	5.00	0.11	0.02	75.00	5.00	0.11	0.00
25.00	5.00	0.11	0.00	76.00	5.00	0.11	0.00
26.00	5.00	0.11	0.00	77.00	5.00	0.11	0.00
27.00	5.00	0.11	0.00	78.00	5.00	0.11	0.00
28.00	5.00	0.11	0.00	79.00	5.00	0.11	0.00
29.00	5.00	0.11	0.00	80.00	5.00	0.11	0.00
30.00	5.00	0.11	0.00	81.00	5.00	0.11	0.00
31.00	5.00	0.11	0.00	82.00	5.00	0.11	0.00
32.00	5.00	0.11	0.00	83.00	5.00	0.11	0.00
33.00	5.00	0.11	0.00	84.00	5.00	0.11	0.00
34.00	5.00	0.11	0.00	85.00	5.00	0.11	0.00
35.00	5.00	0.11	0.00	86.00	5.00	0.11	0.00
36.00	5.00	0.11	0.00	87.00	5.00	0.11	0.00
37.00	5.00	0.11	0.00	88.00	5.00	0.11	0.00
38.00	5.00	0.11	0.00	89.00	5.00	0.11	0.00
39.00	5.00	0.11	0.00	90.00	5.00	0.11	0.00
40.00	5.00	0.11	0.00	91.00	5.00	0.11	0.00
41.00	5.00	0.11	0.00	92.00	5.00	0.11	0.00
42.00	5.00	0.11	0.00	93.00	5.00	0.11	0.00
43.00	5.00	0.11	0.00	94.00	5.00	0.11	0.00
44.00	5.00	0.11	0.00	95.00	5.00	0.11	0.00
45.00	5.00	0.11	0.00	96.00	5.00	0.11	0.00
46.00	5.00	0.11	0.00	97.00	5.00	0.11	0.00
47.00	5.00	0.11	0.00	98.00	5.00	0.11	0.00
48.00	5.00	0.11	0.00	99.00	5.00	0.11	0.00
49.00	5.00	0.11	0.00	100.00	5.00	0.11	0.00
50.00	5.00	0.11	0.00				

Summary for Subcatchment 49S: P-100 IMP

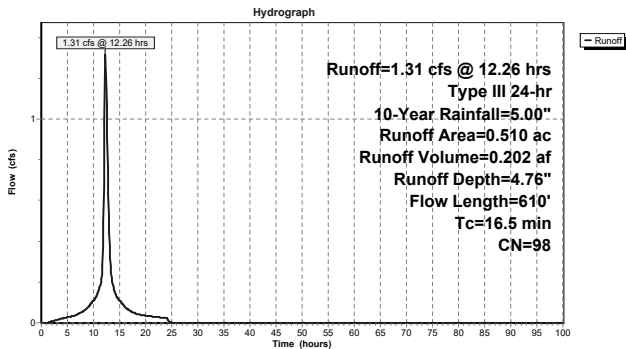
Runoff = 1.31 cfs @ 12.26 hrs, Volume= 0.202 af, Depth= 4.76"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
0.510	98	Unconnected pavement
0.510		100.00% Impervious Area
0.510		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 49S: P-100 IMP



Hydrograph for Subcatchment 49S: P-100 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	4.76	0.00
1.00	0.05	0.00	0.00	52.00	5.00	4.76	0.00
2.00	0.10	0.01	0.01	53.00	5.00	4.76	0.00
3.00	0.15	0.04	0.01	54.00	5.00	4.76	0.00
4.00	0.22	0.08	0.02	55.00	5.00	4.76	0.00
5.00	0.28	0.13	0.03	56.00	5.00	4.76	0.00
6.00	0.36	0.19	0.03	57.00	5.00	4.76	0.00
7.00	0.45	0.28	0.04	58.00	5.00	4.76	0.00
8.00	0.57	0.38	0.06	59.00	5.00	4.76	0.00
9.00	0.73	0.53	0.08	60.00	5.00	4.76	0.00
10.00	0.95	0.74	0.11	61.00	5.00	4.76	0.00
11.00	1.25	1.03	0.16	62.00	5.00	4.76	0.00
12.00	2.50	2.27	0.67	63.00	5.00	4.76	0.00
13.00	3.75	3.52	0.44	64.00	5.00	4.76	0.00
14.00	4.06	3.82	0.15	65.00	5.00	4.76	0.00
15.00	4.27	4.04	0.11	66.00	5.00	4.76	0.00
16.00	4.43	4.19	0.08	67.00	5.00	4.76	0.00
17.00	4.55	4.31	0.06	68.00	5.00	4.76	0.00
18.00	4.64	4.40	0.05	69.00	5.00	4.76	0.00
19.00	4.72	4.48	0.04	70.00	5.00	4.76	0.00
20.00	4.79	4.55	0.03	71.00	5.00	4.76	0.00
21.00	4.85	4.61	0.03	72.00	5.00	4.76	0.00
22.00	4.90	4.67	0.03	73.00	5.00	4.76	0.00
23.00	4.95	4.72	0.03	74.00	5.00	4.76	0.00
24.00	5.00	4.76	0.02	75.00	5.00	4.76	0.00
25.00	5.00	4.76	0.00	76.00	5.00	4.76	0.00
26.00	5.00	4.76	0.00	77.00	5.00	4.76	0.00
27.00	5.00	4.76	0.00	78.00	5.00	4.76	0.00
28.00	5.00	4.76	0.00	79.00	5.00	4.76	0.00
29.00	5.00	4.76	0.00	80.00	5.00	4.76	0.00
30.00	5.00	4.76	0.00	81.00	5.00	4.76	0.00
31.00	5.00	4.76	0.00	82.00	5.00	4.76	0.00
32.00	5.00	4.76	0.00	83.00	5.00	4.76	0.00
33.00	5.00	4.76	0.00	84.00	5.00	4.76	0.00
34.00	5.00	4.76	0.00	85.00	5.00	4.76	0.00
35.00	5.00	4.76	0.00	86.00	5.00	4.76	0.00
36.00	5.00	4.76	0.00	87.00	5.00	4.76	0.00
37.00	5.00	4.76	0.00	88.00	5.00	4.76	0.00
38.00	5.00	4.76	0.00	89.00	5.00	4.76	0.00
39.00	5.00	4.76	0.00	90.00	5.00	4.76	0.00
40.00	5.00	4.76	0.00	91.00	5.00	4.76	0.00
41.00	5.00	4.76	0.00	92.00	5.00	4.76	0.00
42.00	5.00	4.76	0.00	93.00	5.00	4.76	0.00
43.00	5.00	4.76	0.00	94.00	5.00	4.76	0.00
44.00	5.00	4.76	0.00	95.00	5.00	4.76	0.00
45.00	5.00	4.76	0.00	96.00	5.00	4.76	0.00
46.00	5.00	4.76	0.00	97.00	5.00	4.76	0.00
47.00	5.00	4.76	0.00	98.00	5.00	4.76	0.00
48.00	5.00	4.76	0.00	99.00	5.00	4.76	0.00
49.00	5.00	4.76	0.00	100.00	5.00	4.76	0.00
50.00	5.00	4.76	0.00				

Summary for Subcatchment 50S: P-200 IMP

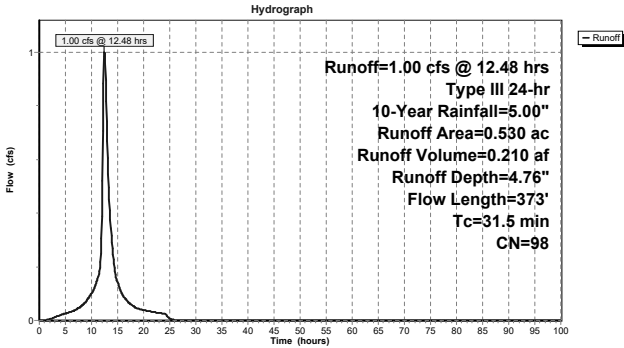
Runoff = 1.00 cfs @ 12.48 hrs, Volume= 0.210 af, Depth= 4.76"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
* 0.530	98	Unconnected pavement
0.530		100.00% Impervious Area
0.530		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373	Total			

Subcatchment 50S: P-200 IMP



Hydrograph for Subcatchment 50S: P-200 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	4.76	0.00
1.00	0.05	0.00	0.00	52.00	5.00	4.76	0.00
2.00	0.10	0.01	0.00	53.00	5.00	4.76	0.00
3.00	0.15	0.04	0.01	54.00	5.00	4.76	0.00
4.00	0.22	0.08	0.02	55.00	5.00	4.76	0.00
5.00	0.28	0.13	0.03	56.00	5.00	4.76	0.00
6.00	0.36	0.19	0.03	57.00	5.00	4.76	0.00
7.00	0.45	0.28	0.04	58.00	5.00	4.76	0.00
8.00	0.57	0.38	0.05	59.00	5.00	4.76	0.00
9.00	0.73	0.53	0.07	60.00	5.00	4.76	0.00
10.00	0.95	0.74	0.10	61.00	5.00	4.76	0.00
11.00	1.25	1.03	0.14	62.00	5.00	4.76	0.00
12.00	2.50	2.27	0.39	63.00	5.00	4.76	0.00
13.00	3.75	3.52	0.67	64.00	5.00	4.76	0.00
14.00	4.06	3.82	0.27	65.00	5.00	4.76	0.00
15.00	4.27	4.04	0.14	66.00	5.00	4.76	0.00
16.00	4.43	4.19	0.09	67.00	5.00	4.76	0.00
17.00	4.55	4.31	0.07	68.00	5.00	4.76	0.00
18.00	4.64	4.40	0.05	69.00	5.00	4.76	0.00
19.00	4.72	4.48	0.04	70.00	5.00	4.76	0.00
20.00	4.79	4.55	0.04	71.00	5.00	4.76	0.00
21.00	4.85	4.61	0.03	72.00	5.00	4.76	0.00
22.00	4.90	4.67	0.03	73.00	5.00	4.76	0.00
23.00	4.95	4.72	0.03	74.00	5.00	4.76	0.00
24.00	5.00	4.76	0.03	75.00	5.00	4.76	0.00
25.00	5.00	4.76	0.01	76.00	5.00	4.76	0.00
26.00	5.00	4.76	0.00	77.00	5.00	4.76	0.00
27.00	5.00	4.76	0.00	78.00	5.00	4.76	0.00
28.00	5.00	4.76	0.00	79.00	5.00	4.76	0.00
29.00	5.00	4.76	0.00	80.00	5.00	4.76	0.00
30.00	5.00	4.76	0.00	81.00	5.00	4.76	0.00
31.00	5.00	4.76	0.00	82.00	5.00	4.76	0.00
32.00	5.00	4.76	0.00	83.00	5.00	4.76	0.00
33.00	5.00	4.76	0.00	84.00	5.00	4.76	0.00
34.00	5.00	4.76	0.00	85.00	5.00	4.76	0.00
35.00	5.00	4.76	0.00	86.00	5.00	4.76	0.00
36.00	5.00	4.76	0.00	87.00	5.00	4.76	0.00
37.00	5.00	4.76	0.00	88.00	5.00	4.76	0.00
38.00	5.00	4.76	0.00	89.00	5.00	4.76	0.00
39.00	5.00	4.76	0.00	90.00	5.00	4.76	0.00
40.00	5.00	4.76	0.00	91.00	5.00	4.76	0.00
41.00	5.00	4.76	0.00	92.00	5.00	4.76	0.00
42.00	5.00	4.76	0.00	93.00	5.00	4.76	0.00
43.00	5.00	4.76	0.00	94.00	5.00	4.76	0.00
44.00	5.00	4.76	0.00	95.00	5.00	4.76	0.00
45.00	5.00	4.76	0.00	96.00	5.00	4.76	0.00
46.00	5.00	4.76	0.00	97.00	5.00	4.76	0.00
47.00	5.00	4.76	0.00	98.00	5.00	4.76	0.00
48.00	5.00	4.76	0.00	99.00	5.00	4.76	0.00
49.00	5.00	4.76	0.00	100.00	5.00	4.76	0.00
50.00	5.00	4.76	0.00				

Summary for Subcatchment 51S: P-300 IMP

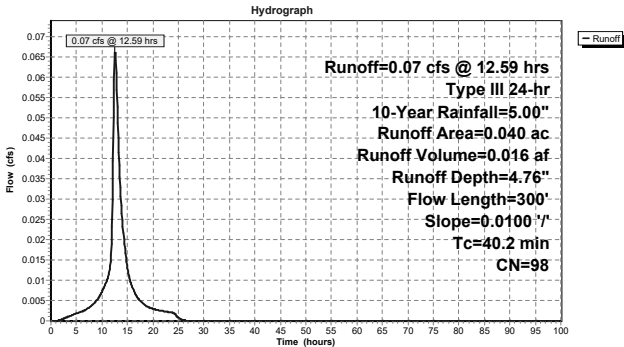
Runoff = 0.07 cfs @ 12.59 hrs, Volume= 0.016 af, Depth= 4.76"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
* 0.040	98	Unconnected pavement
0.040		100.00% Impervious Area
0.040		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300	Total			

Subcatchment 51S: P-300 IMP



Hydrograph for Subcatchment 51S: P-300 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	4.76	0.00
1.00	0.05	0.00	0.00	52.00	5.00	4.76	0.00
2.00	0.10	0.01	0.00	53.00	5.00	4.76	0.00
3.00	0.15	0.04	0.00	54.00	5.00	4.76	0.00
4.00	0.22	0.08	0.00	55.00	5.00	4.76	0.00
5.00	0.28	0.13	0.00	56.00	5.00	4.76	0.00
6.00	0.36	0.19	0.00	57.00	5.00	4.76	0.00
7.00	0.45	0.28	0.00	58.00	5.00	4.76	0.00
8.00	0.57	0.38	0.00	59.00	5.00	4.76	0.00
9.00	0.73	0.53	0.01	60.00	5.00	4.76	0.00
10.00	0.95	0.74	0.01	61.00	5.00	4.76	0.00
11.00	1.25	1.03	0.01	62.00	5.00	4.76	0.00
12.00	2.50	2.27	0.02	63.00	5.00	4.76	0.00
13.00	3.75	3.52	0.05	64.00	5.00	4.76	0.00
14.00	4.06	3.82	0.02	65.00	5.00	4.76	0.00
15.00	4.27	4.04	0.01	66.00	5.00	4.76	0.00
16.00	4.43	4.19	0.01	67.00	5.00	4.76	0.00
17.00	4.55	4.31	0.01	68.00	5.00	4.76	0.00
18.00	4.64	4.40	0.00	69.00	5.00	4.76	0.00
19.00	4.72	4.48	0.00	70.00	5.00	4.76	0.00
20.00	4.79	4.55	0.00	71.00	5.00	4.76	0.00
21.00	4.85	4.61	0.00	72.00	5.00	4.76	0.00
22.00	4.90	4.67	0.00	73.00	5.00	4.76	0.00
23.00	4.95	4.72	0.00	74.00	5.00	4.76	0.00
24.00	5.00	4.76	0.00	75.00	5.00	4.76	0.00
25.00	5.00	4.76	0.00	76.00	5.00	4.76	0.00
26.00	5.00	4.76	0.00	77.00	5.00	4.76	0.00
27.00	5.00	4.76	0.00	78.00	5.00	4.76	0.00
28.00	5.00	4.76	0.00	79.00	5.00	4.76	0.00
29.00	5.00	4.76	0.00	80.00	5.00	4.76	0.00
30.00	5.00	4.76	0.00	81.00	5.00	4.76	0.00
31.00	5.00	4.76	0.00	82.00	5.00	4.76	0.00
32.00	5.00	4.76	0.00	83.00	5.00	4.76	0.00
33.00	5.00	4.76	0.00	84.00	5.00	4.76	0.00
34.00	5.00	4.76	0.00	85.00	5.00	4.76	0.00
35.00	5.00	4.76	0.00	86.00	5.00	4.76	0.00
36.00	5.00	4.76	0.00	87.00	5.00	4.76	0.00
37.00	5.00	4.76	0.00	88.00	5.00	4.76	0.00
38.00	5.00	4.76	0.00	89.00	5.00	4.76	0.00
39.00	5.00	4.76	0.00	90.00	5.00	4.76	0.00
40.00	5.00	4.76	0.00	91.00	5.00	4.76	0.00
41.00	5.00	4.76	0.00	92.00	5.00	4.76	0.00
42.00	5.00	4.76	0.00	93.00	5.00	4.76	0.00
43.00	5.00	4.76	0.00	94.00	5.00	4.76	0.00
44.00	5.00	4.76	0.00	95.00	5.00	4.76	0.00
45.00	5.00	4.76	0.00	96.00	5.00	4.76	0.00
46.00	5.00	4.76	0.00	97.00	5.00	4.76	0.00
47.00	5.00	4.76	0.00	98.00	5.00	4.76	0.00
48.00	5.00	4.76	0.00	99.00	5.00	4.76	0.00
49.00	5.00	4.76	0.00	100.00	5.00	4.76	0.00
50.00	5.00	4.76	0.00				

Summary for Subcatchment 52S: P-400 IMP

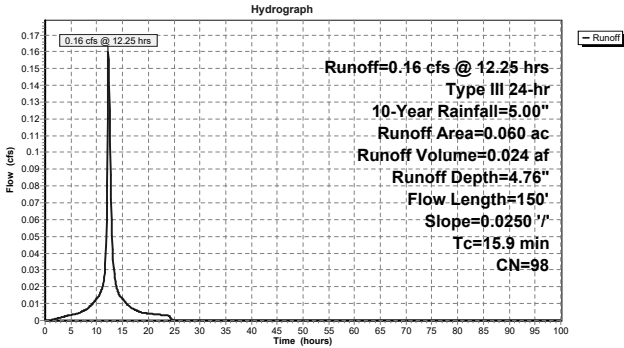
Runoff = 0.16 cfs @ 12.25 hrs, Volume= 0.024 af, Depth= 4.76"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 10-Year Rainfall=5.00"

Area (ac)	CN	Description
0.060	98	Unconnected pavement
0.060		100.00% Impervious Area
0.060		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150	Total			

Subcatchment 52S: P-400 IMP



Hydrograph for Subcatchment 52S: P-400 IMP

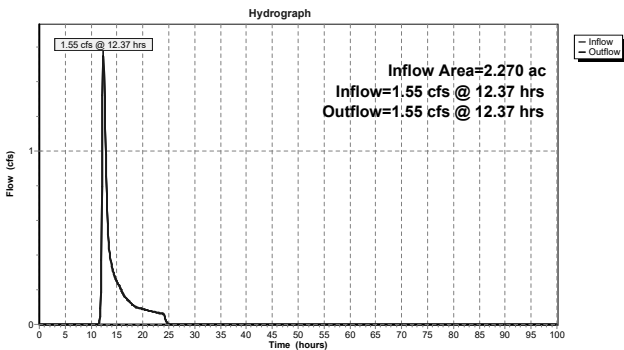
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	5.00	4.76	0.00
1.00	0.05	0.00	0.00	52.00	5.00	4.76	0.00
2.00	0.10	0.01	0.00	53.00	5.00	4.76	0.00
3.00	0.15	0.04	0.00	54.00	5.00	4.76	0.00
4.00	0.22	0.08	0.00	55.00	5.00	4.76	0.00
5.00	0.28	0.13	0.00	56.00	5.00	4.76	0.00
6.00	0.36	0.19	0.00	57.00	5.00	4.76	0.00
7.00	0.45	0.28	0.01	58.00	5.00	4.76	0.00
8.00	0.57	0.38	0.01	59.00	5.00	4.76	0.00
9.00	0.73	0.53	0.01	60.00	5.00	4.76	0.00
10.00	0.95	0.74	0.01	61.00	5.00	4.76	0.00
11.00	1.25	1.03	0.02	62.00	5.00	4.76	0.00
12.00	2.50	2.27	0.08	63.00	5.00	4.76	0.00
13.00	3.75	3.52	0.05	64.00	5.00	4.76	0.00
14.00	4.06	3.82	0.02	65.00	5.00	4.76	0.00
15.00	4.27	4.04	0.01	66.00	5.00	4.76	0.00
16.00	4.43	4.19	0.01	67.00	5.00	4.76	0.00
17.00	4.55	4.31	0.01	68.00	5.00	4.76	0.00
18.00	4.64	4.40	0.01	69.00	5.00	4.76	0.00
19.00	4.72	4.48	0.00	70.00	5.00	4.76	0.00
20.00	4.79	4.55	0.00	71.00	5.00	4.76	0.00
21.00	4.85	4.61	0.00	72.00	5.00	4.76	0.00
22.00	4.90	4.67	0.00	73.00	5.00	4.76	0.00
23.00	4.95	4.72	0.00	74.00	5.00	4.76	0.00
24.00	5.00	4.76	0.00	75.00	5.00	4.76	0.00
25.00	5.00	4.76	0.00	76.00	5.00	4.76	0.00
26.00	5.00	4.76	0.00	77.00	5.00	4.76	0.00
27.00	5.00	4.76	0.00	78.00	5.00	4.76	0.00
28.00	5.00	4.76	0.00	79.00	5.00	4.76	0.00
29.00	5.00	4.76	0.00	80.00	5.00	4.76	0.00
30.00	5.00	4.76	0.00	81.00	5.00	4.76	0.00
31.00	5.00	4.76	0.00	82.00	5.00	4.76	0.00
32.00	5.00	4.76	0.00	83.00	5.00	4.76	0.00
33.00	5.00	4.76	0.00	84.00	5.00	4.76	0.00
34.00	5.00	4.76	0.00	85.00	5.00	4.76	0.00
35.00	5.00	4.76	0.00	86.00	5.00	4.76	0.00
36.00	5.00	4.76	0.00	87.00	5.00	4.76	0.00
37.00	5.00	4.76	0.00	88.00	5.00	4.76	0.00
38.00	5.00	4.76	0.00	89.00	5.00	4.76	0.00
39.00	5.00	4.76	0.00	90.00	5.00	4.76	0.00
40.00	5.00	4.76	0.00	91.00	5.00	4.76	0.00
41.00	5.00	4.76	0.00	92.00	5.00	4.76	0.00
42.00	5.00	4.76	0.00	93.00	5.00	4.76	0.00
43.00	5.00	4.76	0.00	94.00	5.00	4.76	0.00
44.00	5.00	4.76	0.00	95.00	5.00	4.76	0.00
45.00	5.00	4.76	0.00	96.00	5.00	4.76	0.00
46.00	5.00	4.76	0.00	97.00	5.00	4.76	0.00
47.00	5.00	4.76	0.00	98.00	5.00	4.76	0.00
48.00	5.00	4.76	0.00	99.00	5.00	4.76	0.00
49.00	5.00	4.76	0.00	100.00	5.00	4.76	0.00
50.00	5.00	4.76	0.00				

Summary for Reach 6R: E-100

Inflow Area = 2.270 ac, 0.00% Impervious, Inflow Depth = 1.30" for 10-Year event
 Inflow = 1.55 cfs @ 12.37 hrs, Volume= 0.246 af
 Outflow = 1.55 cfs @ 12.37 hrs, Volume= 0.246 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 6R: E-100



Hydrograph for Reach 6R: E-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.37	0.37	0.37	63.00	0.00	0.00	0.00
13.00	0.75	0.75	0.75	64.00	0.00	0.00	0.00
14.00	0.33	0.33	0.33	65.00	0.00	0.00	0.00
15.00	0.25	0.25	0.25	66.00	0.00	0.00	0.00
16.00	0.19	0.19	0.19	67.00	0.00	0.00	0.00
17.00	0.14	0.14	0.14	68.00	0.00	0.00	0.00
18.00	0.11	0.11	0.11	69.00	0.00	0.00	0.00
19.00	0.10	0.10	0.10	70.00	0.00	0.00	0.00
20.00	0.09	0.09	0.09	71.00	0.00	0.00	0.00
21.00	0.08	0.08	0.08	72.00	0.00	0.00	0.00
22.00	0.07	0.07	0.07	73.00	0.00	0.00	0.00
23.00	0.07	0.07	0.07	74.00	0.00	0.00	0.00
24.00	0.06	0.06	0.06	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

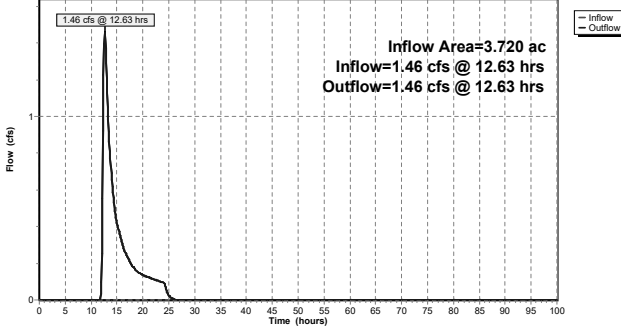
Summary for Reach 7R: E-200

Inflow Area = 3.720 ac, 0.00% Impervious, Inflow Depth = 1.10" for 10-Year event
 Inflow = 1.46 cfs @ 12.63 hrs, Volume= 0.342 af
 Outflow = 1.46 cfs @ 12.63 hrs, Volume= 0.342 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 7R: E-200

Hydrograph



Hydrograph for Reach 7R: E-200

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.10		0.10	63.00	0.00		0.00
13.00	1.20		1.20	64.00	0.00		0.00
14.00	0.65		0.65	65.00	0.00		0.00
15.00	0.42		0.42	66.00	0.00		0.00
16.00	0.31		0.31	67.00	0.00		0.00
17.00	0.23		0.23	68.00	0.00		0.00
18.00	0.19		0.19	69.00	0.00		0.00
19.00	0.15		0.15	70.00	0.00		0.00
20.00	0.14		0.14	71.00	0.00		0.00
21.00	0.12		0.12	72.00	0.00		0.00
22.00	0.11		0.11	73.00	0.00		0.00
23.00	0.10		0.10	74.00	0.00		0.00
24.00	0.09		0.09	75.00	0.00		0.00
25.00	0.03		0.03	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

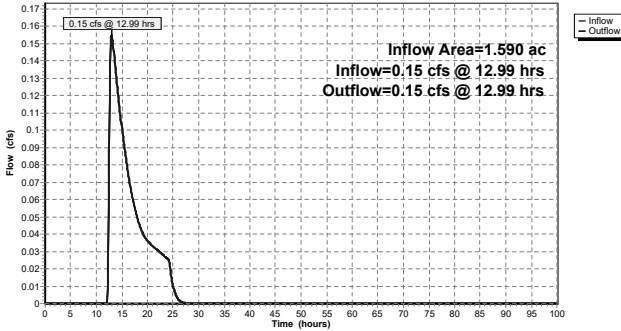
Summary for Reach 8R: E-300

Inflow Area = 1.590 ac, 0.00% Impervious, Inflow Depth = 0.49" for 10-Year event
 Inflow = 0.15 cfs @ 12.99 hrs, Volume= 0.065 af
 Outflow = 0.15 cfs @ 12.99 hrs, Volume= 0.065 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 8R: E-300

Hydrograph



Hydrograph for Reach 8R: E-300

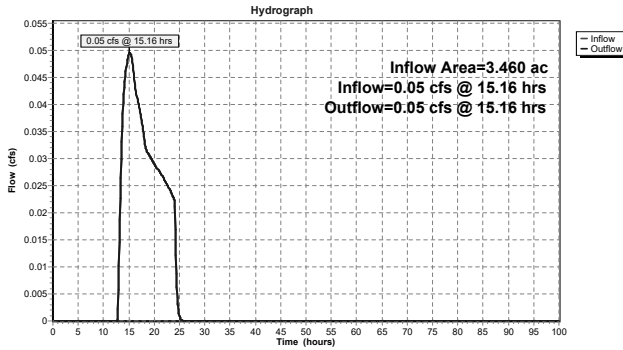
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.15		0.15	64.00	0.00		0.00
14.00	0.13		0.13	65.00	0.00		0.00
15.00	0.10		0.10	66.00	0.00		0.00
16.00	0.08		0.08	67.00	0.00		0.00
17.00	0.06		0.06	68.00	0.00		0.00
18.00	0.05		0.05	69.00	0.00		0.00
19.00	0.04		0.04	70.00	0.00		0.00
20.00	0.04		0.04	71.00	0.00		0.00
21.00	0.03		0.03	72.00	0.00		0.00
22.00	0.03		0.03	73.00	0.00		0.00
23.00	0.03		0.03	74.00	0.00		0.00
24.00	0.03		0.03	75.00	0.00		0.00
25.00	0.01		0.01	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 22R: E-400

Inflow Area = 3.460 ac, 0.00% Impervious, Inflow Depth = 0.11" for 10-Year event
 Inflow = 0.05 cfs @ 15.16 hrs, Volume= 0.031 af
 Outflow = 0.05 cfs @ 15.16 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 22R: E-400



Hydrograph for Reach 22R: E-400

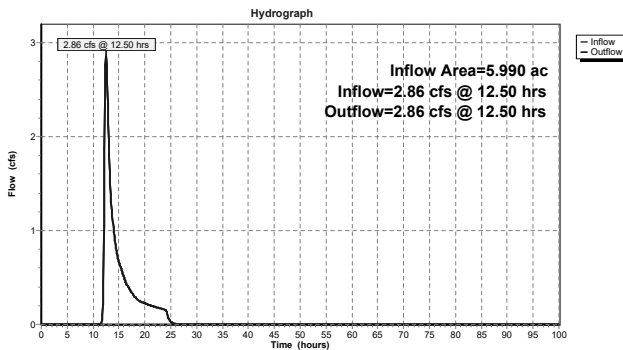
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
13.00	0.01	0.01	0.01	64.00	0.00	0.00	0.00
14.00	0.04	0.04	0.04	65.00	0.00	0.00	0.00
15.00	0.05	0.05	0.05	66.00	0.00	0.00	0.00
16.00	0.05	0.05	0.05	67.00	0.00	0.00	0.00
17.00	0.04	0.04	0.04	68.00	0.00	0.00	0.00
18.00	0.03	0.03	0.03	69.00	0.00	0.00	0.00
19.00	0.03	0.03	0.03	70.00	0.00	0.00	0.00
20.00	0.03	0.03	0.03	71.00	0.00	0.00	0.00
21.00	0.03	0.03	0.03	72.00	0.00	0.00	0.00
22.00	0.03	0.03	0.03	73.00	0.00	0.00	0.00
23.00	0.02	0.02	0.02	74.00	0.00	0.00	0.00
24.00	0.02	0.02	0.02	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 23R: E-POA "A"

Inflow Area = 5.990 ac, 0.00% Impervious, Inflow Depth = 1.18" for 10-Year event
 Inflow = 2.86 cfs @ 12.50 hrs, Volume= 0.589 af
 Outflow = 2.86 cfs @ 12.50 hrs, Volume= 0.589 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 23R: E-POA "A"



Hydrograph for Reach 23R: E-POA "A"

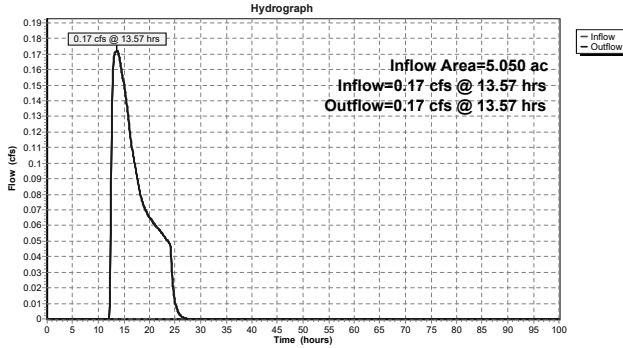
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.46	0.46	0.46	63.00	0.00	0.00	0.00
13.00	1.95	1.95	1.95	64.00	0.00	0.00	0.00
14.00	0.98	0.98	0.98	65.00	0.00	0.00	0.00
15.00	0.67	0.67	0.67	66.00	0.00	0.00	0.00
16.00	0.50	0.50	0.50	67.00	0.00	0.00	0.00
17.00	0.38	0.38	0.38	68.00	0.00	0.00	0.00
18.00	0.30	0.30	0.30	69.00	0.00	0.00	0.00
19.00	0.25	0.25	0.25	70.00	0.00	0.00	0.00
20.00	0.22	0.22	0.22	71.00	0.00	0.00	0.00
21.00	0.20	0.20	0.20	72.00	0.00	0.00	0.00
22.00	0.19	0.19	0.19	73.00	0.00	0.00	0.00
23.00	0.17	0.17	0.17	74.00	0.00	0.00	0.00
24.00	0.15	0.15	0.15	75.00	0.00	0.00	0.00
25.00	0.03	0.03	0.03	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 25R: E-POA "B"

Inflow Area = 5.050 ac, 0.00% Impervious, Inflow Depth = 0.23" for 10-Year event
 Inflow = 0.17 cfs @ 13.57 hrs, Volume= 0.096 af
 Outflow = 0.17 cfs @ 13.57 hrs, Volume= 0.096 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 25R: E-POA "B"



Hydrograph for Reach 25R: E-POA "B"

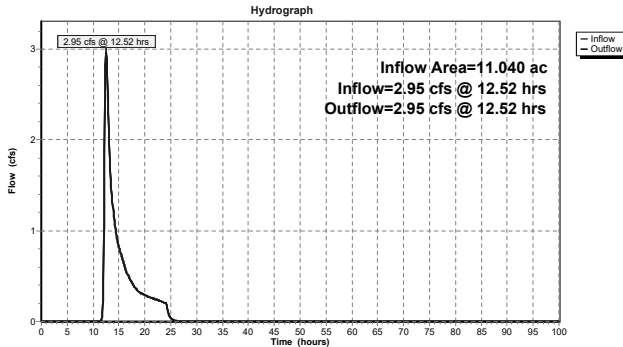
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
13.00	0.16	0.16	0.16	64.00	0.00	0.00	0.00
14.00	0.17	0.17	0.17	65.00	0.00	0.00	0.00
15.00	0.15	0.15	0.15	66.00	0.00	0.00	0.00
16.00	0.13	0.13	0.13	67.00	0.00	0.00	0.00
17.00	0.10	0.10	0.10	68.00	0.00	0.00	0.00
18.00	0.08	0.08	0.08	69.00	0.00	0.00	0.00
19.00	0.07	0.07	0.07	70.00	0.00	0.00	0.00
20.00	0.07	0.07	0.07	71.00	0.00	0.00	0.00
21.00	0.06	0.06	0.06	72.00	0.00	0.00	0.00
22.00	0.06	0.06	0.06	73.00	0.00	0.00	0.00
23.00	0.05	0.05	0.05	74.00	0.00	0.00	0.00
24.00	0.05	0.05	0.05	75.00	0.00	0.00	0.00
25.00	0.01	0.01	0.01	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 26R: E-POA

Inflow Area = 11.040 ac, 0.00% Impervious, Inflow Depth = 0.74" for 10-Year event
 Inflow = 2.95 cfs @ 12.52 hrs, Volume= 0.685 af
 Outflow = 2.95 cfs @ 12.52 hrs, Volume= 0.685 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 26R: E-POA



Hydrograph for Reach 26R: E-POA

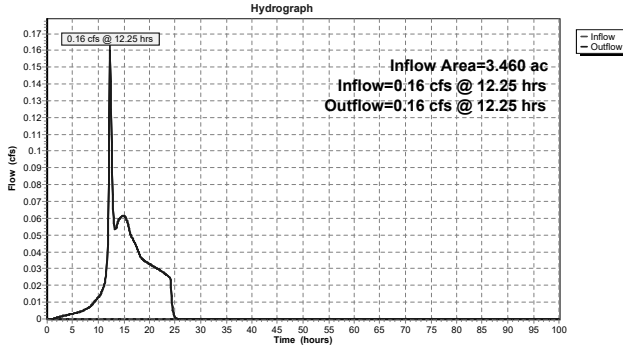
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.46	0.46	0.46	63.00	0.00	0.00	0.00
13.00	2.12	2.12	2.12	64.00	0.00	0.00	0.00
14.00	1.15	1.15	1.15	65.00	0.00	0.00	0.00
15.00	0.82	0.82	0.82	66.00	0.00	0.00	0.00
16.00	0.62	0.62	0.62	67.00	0.00	0.00	0.00
17.00	0.48	0.48	0.48	68.00	0.00	0.00	0.00
18.00	0.38	0.38	0.38	69.00	0.00	0.00	0.00
19.00	0.32	0.32	0.32	70.00	0.00	0.00	0.00
20.00	0.29	0.29	0.29	71.00	0.00	0.00	0.00
21.00	0.27	0.27	0.27	72.00	0.00	0.00	0.00
22.00	0.24	0.24	0.24	73.00	0.00	0.00	0.00
23.00	0.22	0.22	0.22	74.00	0.00	0.00	0.00
24.00	0.20	0.20	0.20	75.00	0.00	0.00	0.00
25.00	0.04	0.04	0.04	76.00	0.00	0.00	0.00
26.00	0.01	0.01	0.01	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 38R: P-400

Inflow Area = 3.460 ac, 1.73% Impervious, Inflow Depth = 0.19" for 10-Year event
 Inflow = 0.16 cfs @ 12.25 hrs, Volume= 0.055 af
 Outflow = 0.16 cfs @ 12.25 hrs, Volume= 0.055 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 38R: P-400



Hydrograph for Reach 38R: P-400

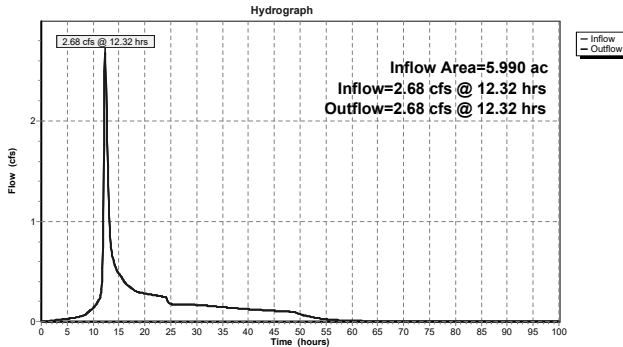
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.01	0.01	0.01	58.00	0.00	0.00	0.00
8.00	0.01	0.01	0.01	59.00	0.00	0.00	0.00
9.00	0.01	0.01	0.01	60.00	0.00	0.00	0.00
10.00	0.01	0.01	0.01	61.00	0.00	0.00	0.00
11.00	0.02	0.02	0.02	62.00	0.00	0.00	0.00
12.00	0.08	0.08	0.08	63.00	0.00	0.00	0.00
13.00	0.06	0.06	0.06	64.00	0.00	0.00	0.00
14.00	0.06	0.06	0.06	65.00	0.00	0.00	0.00
15.00	0.06	0.06	0.06	66.00	0.00	0.00	0.00
16.00	0.05	0.05	0.05	67.00	0.00	0.00	0.00
17.00	0.05	0.05	0.05	68.00	0.00	0.00	0.00
18.00	0.04	0.04	0.04	69.00	0.00	0.00	0.00
19.00	0.03	0.03	0.03	70.00	0.00	0.00	0.00
20.00	0.03	0.03	0.03	71.00	0.00	0.00	0.00
21.00	0.03	0.03	0.03	72.00	0.00	0.00	0.00
22.00	0.03	0.03	0.03	73.00	0.00	0.00	0.00
23.00	0.03	0.03	0.03	74.00	0.00	0.00	0.00
24.00	0.02	0.02	0.02	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 39R: P-POA "A"

Inflow Area = 5.990 ac, 17.36% Impervious, Inflow Depth = 1.79" for 10-Year event
 Inflow = 2.68 cfs @ 12.32 hrs, Volume= 0.893 af
 Outflow = 2.68 cfs @ 12.32 hrs, Volume= 0.893 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 39R: P-POA "A"



Hydrograph for Reach 39R: P-POA "A"

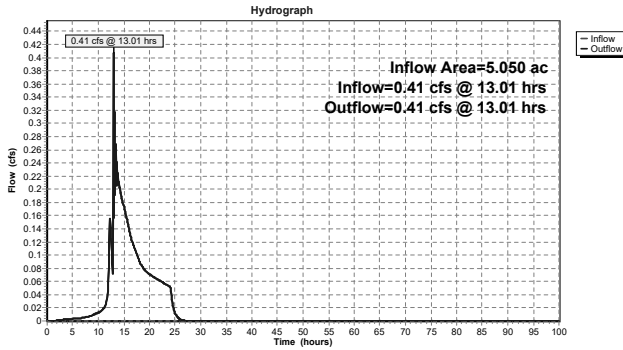
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.06	0.06	0.06
1.00	0.00	0.00	0.00	52.00	0.05	0.05	0.05
2.00	0.01	0.01	0.01	53.00	0.04	0.04	0.04
3.00	0.01	0.01	0.01	54.00	0.03	0.03	0.03
4.00	0.02	0.02	0.02	55.00	0.02	0.02	0.02
5.00	0.03	0.03	0.03	56.00	0.02	0.02	0.02
6.00	0.03	0.03	0.03	57.00	0.01	0.01	0.01
7.00	0.04	0.04	0.04	58.00	0.01	0.01	0.01
8.00	0.06	0.06	0.06	59.00	0.01	0.01	0.01
9.00	0.09	0.09	0.09	60.00	0.01	0.01	0.01
10.00	0.14	0.14	0.14	61.00	0.01	0.01	0.01
11.00	0.20	0.20	0.20	62.00	0.00	0.00	0.00
12.00	1.08	1.08	1.08	63.00	0.00	0.00	0.00
13.00	1.19	1.19	1.19	64.00	0.00	0.00	0.00
14.00	0.59	0.59	0.59	65.00	0.00	0.00	0.00
15.00	0.48	0.48	0.48	66.00	0.00	0.00	0.00
16.00	0.40	0.40	0.40	67.00	0.00	0.00	0.00
17.00	0.35	0.35	0.35	68.00	0.00	0.00	0.00
18.00	0.31	0.31	0.31	69.00	0.00	0.00	0.00
19.00	0.29	0.29	0.29	70.00	0.00	0.00	0.00
20.00	0.28	0.28	0.28	71.00	0.00	0.00	0.00
21.00	0.27	0.27	0.27	72.00	0.00	0.00	0.00
22.00	0.26	0.26	0.26	73.00	0.00	0.00	0.00
23.00	0.25	0.25	0.25	74.00	0.00	0.00	0.00
24.00	0.24	0.24	0.24	75.00	0.00	0.00	0.00
25.00	0.17	0.17	0.17	76.00	0.00	0.00	0.00
26.00	0.17	0.17	0.17	77.00	0.00	0.00	0.00
27.00	0.17	0.17	0.17	78.00	0.00	0.00	0.00
28.00	0.17	0.17	0.17	79.00	0.00	0.00	0.00
29.00	0.17	0.17	0.17	80.00	0.00	0.00	0.00
30.00	0.16	0.16	0.16	81.00	0.00	0.00	0.00
31.00	0.16	0.16	0.16	82.00	0.00	0.00	0.00
32.00	0.16	0.16	0.16	83.00	0.00	0.00	0.00
33.00	0.15	0.15	0.15	84.00	0.00	0.00	0.00
34.00	0.15	0.15	0.15	85.00	0.00	0.00	0.00
35.00	0.14	0.14	0.14	86.00	0.00	0.00	0.00
36.00	0.14	0.14	0.14	87.00	0.00	0.00	0.00
37.00	0.13	0.13	0.13	88.00	0.00	0.00	0.00
38.00	0.13	0.13	0.13	89.00	0.00	0.00	0.00
39.00	0.13	0.13	0.13	90.00	0.00	0.00	0.00
40.00	0.12	0.12	0.12	91.00	0.00	0.00	0.00
41.00	0.12	0.12	0.12	92.00	0.00	0.00	0.00
42.00	0.12	0.12	0.12	93.00	0.00	0.00	0.00
43.00	0.11	0.11	0.11	94.00	0.00	0.00	0.00
44.00	0.11	0.11	0.11	95.00	0.00	0.00	0.00
45.00	0.11	0.11	0.11	96.00	0.00	0.00	0.00
46.00	0.10	0.10	0.10	97.00	0.00	0.00	0.00
47.00	0.10	0.10	0.10	98.00	0.00	0.00	0.00
48.00	0.10	0.10	0.10	99.00	0.00	0.00	0.00
49.00	0.09	0.09	0.09	100.00	0.00	0.00	0.00
50.00	0.07	0.07	0.07				

Summary for Reach 40R: P-POA "B"

Inflow Area = 5.050 ac, 1.98% Impervious, Inflow Depth = 0.29" for 10-Year event
 Inflow = 0.41 cfs @ 13.01 hrs, Volume= 0.121 af
 Outflow = 0.41 cfs @ 13.01 hrs, Volume= 0.121 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 40R: P-POA "B"



Hydrograph for Reach 40R: P-POA "B"

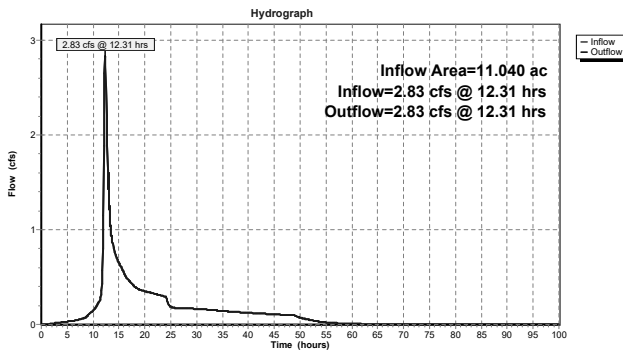
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.01	0.01	0.01	58.00	0.00	0.00	0.00
8.00	0.01	0.01	0.01	59.00	0.00	0.00	0.00
9.00	0.01	0.01	0.01	60.00	0.00	0.00	0.00
10.00	0.01	0.01	0.01	61.00	0.00	0.00	0.00
11.00	0.02	0.02	0.02	62.00	0.00	0.00	0.00
12.00	0.08	0.08	0.08	63.00	0.00	0.00	0.00
13.00	0.41	0.41	0.41	64.00	0.00	0.00	0.00
14.00	0.21	0.21	0.21	65.00	0.00	0.00	0.00
15.00	0.17	0.17	0.17	66.00	0.00	0.00	0.00
16.00	0.14	0.14	0.14	67.00	0.00	0.00	0.00
17.00	0.11	0.11	0.11	68.00	0.00	0.00	0.00
18.00	0.09	0.09	0.09	69.00	0.00	0.00	0.00
19.00	0.08	0.08	0.08	70.00	0.00	0.00	0.00
20.00	0.07	0.07	0.07	71.00	0.00	0.00	0.00
21.00	0.07	0.07	0.07	72.00	0.00	0.00	0.00
22.00	0.06	0.06	0.06	73.00	0.00	0.00	0.00
23.00	0.06	0.06	0.06	74.00	0.00	0.00	0.00
24.00	0.05	0.05	0.05	75.00	0.00	0.00	0.00
25.00	0.01	0.01	0.01	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 41R: P-POA

Inflow Area = 11.040 ac, 10.33% Impervious, Inflow Depth = 1.10" for 10-Year event
 Inflow = 2.83 cfs @ 12.31 hrs, Volume= 1.014 af
 Outflow = 2.83 cfs @ 12.31 hrs, Volume= 1.014 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 41R: P-POA



Hydrograph for Reach 41R: P-POA

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.06	0.06	0.06
1.00	0.00	0.00	0.00	52.00	0.05	0.05	0.05
2.00	0.01	0.01	0.01	53.00	0.04	0.04	0.04
3.00	0.02	0.02	0.02	54.00	0.03	0.03	0.03
4.00	0.02	0.02	0.02	55.00	0.02	0.02	0.02
5.00	0.03	0.03	0.03	56.00	0.02	0.02	0.02
6.00	0.04	0.04	0.04	57.00	0.01	0.01	0.01
7.00	0.05	0.05	0.05	58.00	0.01	0.01	0.01
8.00	0.06	0.06	0.06	59.00	0.01	0.01	0.01
9.00	0.10	0.10	0.10	60.00	0.01	0.01	0.01
10.00	0.15	0.15	0.15	61.00	0.01	0.01	0.01
11.00	0.22	0.22	0.22	62.00	0.00	0.00	0.00
12.00	1.16	1.16	1.16	63.00	0.00	0.00	0.00
13.00	1.60	1.60	1.60	64.00	0.00	0.00	0.00
14.00	0.80	0.80	0.80	65.00	0.00	0.00	0.00
15.00	0.65	0.65	0.65	66.00	0.00	0.00	0.00
16.00	0.54	0.54	0.54	67.00	0.00	0.00	0.00
17.00	0.46	0.46	0.46	68.00	0.00	0.00	0.00
18.00	0.40	0.40	0.40	69.00	0.00	0.00	0.00
19.00	0.37	0.37	0.37	70.00	0.00	0.00	0.00
20.00	0.35	0.35	0.35	71.00	0.00	0.00	0.00
21.00	0.34	0.34	0.34	72.00	0.00	0.00	0.00
22.00	0.32	0.32	0.32	73.00	0.00	0.00	0.00
23.00	0.31	0.31	0.31	74.00	0.00	0.00	0.00
24.00	0.29	0.29	0.29	75.00	0.00	0.00	0.00
25.00	0.19	0.19	0.19	76.00	0.00	0.00	0.00
26.00	0.17	0.17	0.17	77.00	0.00	0.00	0.00
27.00	0.17	0.17	0.17	78.00	0.00	0.00	0.00
28.00	0.17	0.17	0.17	79.00	0.00	0.00	0.00
29.00	0.17	0.17	0.17	80.00	0.00	0.00	0.00
30.00	0.16	0.16	0.16	81.00	0.00	0.00	0.00
31.00	0.16	0.16	0.16	82.00	0.00	0.00	0.00
32.00	0.16	0.16	0.16	83.00	0.00	0.00	0.00
33.00	0.15	0.15	0.15	84.00	0.00	0.00	0.00
34.00	0.15	0.15	0.15	85.00	0.00	0.00	0.00
35.00	0.14	0.14	0.14	86.00	0.00	0.00	0.00
36.00	0.14	0.14	0.14	87.00	0.00	0.00	0.00
37.00	0.13	0.13	0.13	88.00	0.00	0.00	0.00
38.00	0.13	0.13	0.13	89.00	0.00	0.00	0.00
39.00	0.13	0.13	0.13	90.00	0.00	0.00	0.00
40.00	0.12	0.12	0.12	91.00	0.00	0.00	0.00
41.00	0.12	0.12	0.12	92.00	0.00	0.00	0.00
42.00	0.12	0.12	0.12	93.00	0.00	0.00	0.00
43.00	0.11	0.11	0.11	94.00	0.00	0.00	0.00
44.00	0.11	0.11	0.11	95.00	0.00	0.00	0.00
45.00	0.11	0.11	0.11	96.00	0.00	0.00	0.00
46.00	0.10	0.10	0.10	97.00	0.00	0.00	0.00
47.00	0.10	0.10	0.10	98.00	0.00	0.00	0.00
48.00	0.10	0.10	0.10	99.00	0.00	0.00	0.00
49.00	0.09	0.09	0.09	100.00	0.00	0.00	0.00
50.00	0.07	0.07	0.07				

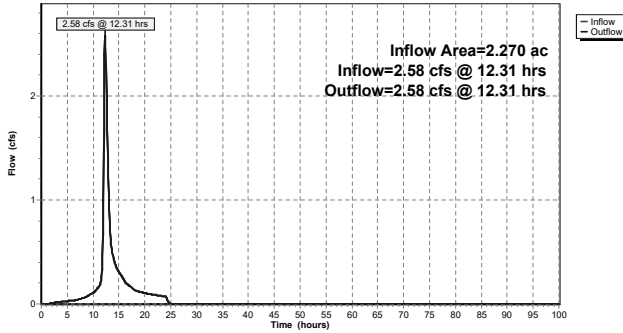
Summary for Reach 46R: P-100

Inflow Area = 2.270 ac, 22.47% Impervious, Inflow Depth = 2.13" for 10-Year event
 Inflow = 2.58 cfs @ 12.31 hrs, Volume= 0.403 af
 Outflow = 2.58 cfs @ 12.31 hrs, Volume= 0.403 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 46R: P-100

Hydrograph



Hydrograph for Reach 46R: P-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.01	0.01	0.01	53.00	0.00	0.00	0.00
3.00	0.01	0.01	0.01	54.00	0.00	0.00	0.00
4.00	0.02	0.02	0.02	55.00	0.00	0.00	0.00
5.00	0.03	0.03	0.03	56.00	0.00	0.00	0.00
6.00	0.03	0.03	0.03	57.00	0.00	0.00	0.00
7.00	0.04	0.04	0.04	58.00	0.00	0.00	0.00
8.00	0.06	0.06	0.06	59.00	0.00	0.00	0.00
9.00	0.08	0.08	0.08	60.00	0.00	0.00	0.00
10.00	0.11	0.11	0.11	61.00	0.00	0.00	0.00
11.00	0.16	0.16	0.16	62.00	0.00	0.00	0.00
12.00	0.99	0.99	0.99	63.00	0.00	0.00	0.00
13.00	1.05	1.05	1.05	64.00	0.00	0.00	0.00
14.00	0.42	0.42	0.42	65.00	0.00	0.00	0.00
15.00	0.31	0.31	0.31	66.00	0.00	0.00	0.00
16.00	0.23	0.23	0.23	67.00	0.00	0.00	0.00
17.00	0.17	0.17	0.17	68.00	0.00	0.00	0.00
18.00	0.14	0.14	0.14	69.00	0.00	0.00	0.00
19.00	0.12	0.12	0.12	70.00	0.00	0.00	0.00
20.00	0.11	0.11	0.11	71.00	0.00	0.00	0.00
21.00	0.10	0.10	0.10	72.00	0.00	0.00	0.00
22.00	0.09	0.09	0.09	73.00	0.00	0.00	0.00
23.00	0.08	0.08	0.08	74.00	0.00	0.00	0.00
24.00	0.07	0.07	0.07	75.00	0.00	0.00	0.00
25.00	0.06	0.06	0.06	76.00	0.00	0.00	0.00
26.00	0.05	0.05	0.05	77.00	0.00	0.00	0.00
27.00	0.04	0.04	0.04	78.00	0.00	0.00	0.00
28.00	0.03	0.03	0.03	79.00	0.00	0.00	0.00
29.00	0.02	0.02	0.02	80.00	0.00	0.00	0.00
30.00	0.01	0.01	0.01	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Pond 43P: P-200 Station 1450 Culvert

Inflow Area = 3.720 ac, 14.25% Impervious, Inflow Depth = 1.63" for 10-Year event
 Inflow = 2.21 cfs @ 12.57 hrs, Volume= 0.504 af
 Outflow = 0.17 cfs @ 19.01 hrs, Volume= 0.490 af, Atten= 92%, Lag= 386.7 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Primary = 0.17 cfs @ 19.01 hrs, Volume= 0.490 af

Routing by Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 148.21' @ 19.01 hrs Surf.Area= 16,051 sf Storage= 13,525 cf

Plug-Flow detention time= 953.8 min calculated for 0.489 af (97% of inflow)
 Center-of-Mass det. time= 939.0 min (1,809.8 - 870.9)

Volume	Invert	Avail.Storage	Storage Description
#1	143.50'	30,636 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.50	4	0	0
145.58	10	15	15
146.00	245	54	68
147.00	3,750	1,998	2,066
148.00	13,020	8,385	10,451
149.00	27,350	20,185	30,636

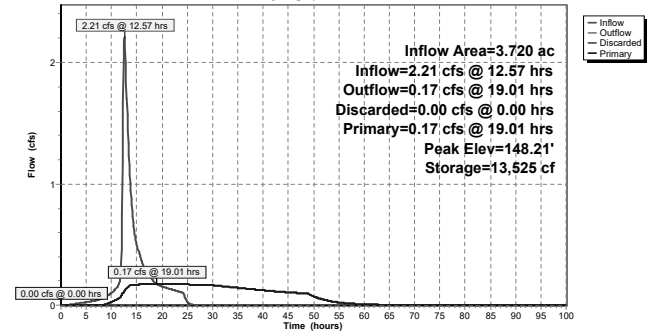
Device	Routing	Invert	Outlet Devices
#1	Discarded	1,000.00'	1,000 in/hr Exfiltration over Surface area above 1,000.00' Conductivity to Groundwater Elevation = 140.00' Excluded Surface area = 27,350 sf
#2	Primary	146.50'	2.0" x 2.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 2	145.58'	12.0" Round Culvert L= 60.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 145.58' / 145.00' S= 0.0097' / Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=143.50' (Free Discharge)
 1=Exfiltration (Controls 0.00 cfs)

Primary OutFlow Max=0.17 cfs @ 19.01 hrs HW=148.21' (Free Discharge)
 2=Orifice/Grate (Orifice Controls 0.17 cfs @ 6.30 fps)
 3=Culvert (Passes 0.17 cfs of 4.48 cfs potential flow)

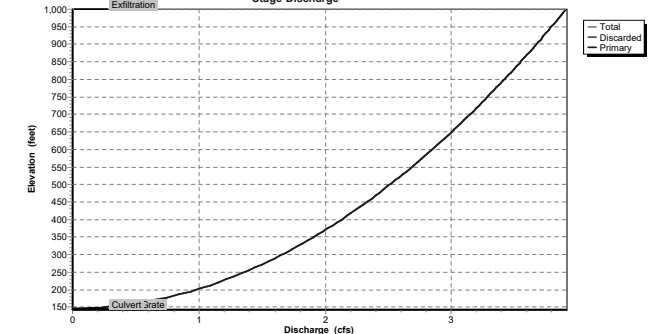
Pond 43P: P-200 Station 1450 Culvert

Hydrograph

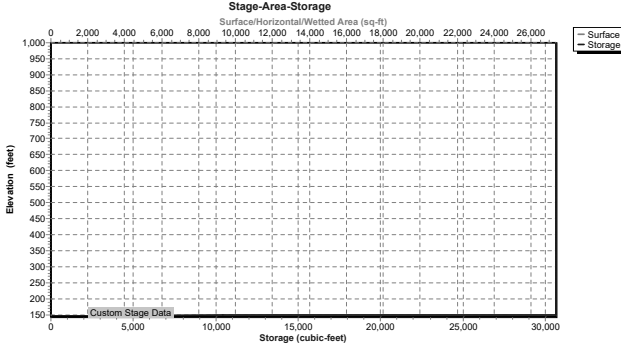


Pond 43P: P-200 Station 1450 Culvert

Stage-Discharge



Pond 43P: P-200 Station 1450 Culvert



Hydrograph for Pond 43P: P-200 Station 1450 Culvert

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	143.50	0.00	0.00	0.00
2.00	0.00	7	144.48	0.00	0.00	0.00
4.00	0.02	94	145.02	0.00	0.00	0.00
6.00	0.03	279	146.19	0.00	0.00	0.00
8.00	0.05	572	146.45	0.00	0.00	0.00
10.00	0.10	1,028	146.64	0.03	0.00	0.03
12.00	0.47	1,881	146.94	0.08	0.00	0.08
14.00	0.83	11,336	148.04	0.17	0.00	0.17
16.00	0.36	13,920	148.17	0.17	0.00	0.17
18.00	0.21	14,658	148.21	0.17	0.00	0.17
20.00	0.15	14,684	148.21	0.17	0.00	0.17
22.00	0.13	14,448	148.20	0.17	0.00	0.17
24.00	0.11	14,047	148.18	0.17	0.00	0.17
26.00	0.00	13,105	148.13	0.17	0.00	0.17
28.00	0.00	11,897	148.07	0.17	0.00	0.17
30.00	0.00	10,703	148.01	0.16	0.00	0.16
32.00	0.00	9,545	147.89	0.16	0.00	0.16
34.00	0.00	8,452	147.76	0.15	0.00	0.15
36.00	0.00	7,422	147.64	0.14	0.00	0.14
38.00	0.00	6,452	147.52	0.13	0.00	0.13
40.00	0.00	5,538	147.41	0.12	0.00	0.12
42.00	0.00	4,676	147.31	0.12	0.00	0.12
44.00	0.00	3,864	147.21	0.11	0.00	0.11
46.00	0.00	3,099	147.12	0.10	0.00	0.10
48.00	0.00	2,379	147.04	0.10	0.00	0.10
50.00	0.00	1,738	146.89	0.07	0.00	0.07
52.00	0.00	1,319	146.74	0.05	0.00	0.05
54.00	0.00	1,059	146.65	0.03	0.00	0.03
56.00	0.00	996	146.59	0.02	0.00	0.02
58.00	0.00	795	146.56	0.01	0.00	0.01
60.00	0.00	732	146.54	0.01	0.00	0.01
62.00	0.00	693	146.52	0.00	0.00	0.00
64.00	0.00	669	146.51	0.00	0.00	0.00
66.00	0.00	654	146.51	0.00	0.00	0.00
68.00	0.00	644	146.51	0.00	0.00	0.00
70.00	0.00	638	146.50	0.00	0.00	0.00
72.00	0.00	635	146.50	0.00	0.00	0.00
74.00	0.00	632	146.50	0.00	0.00	0.00
76.00	0.00	631	146.50	0.00	0.00	0.00
78.00	0.00	630	146.50	0.00	0.00	0.00
80.00	0.00	630	146.50	0.00	0.00	0.00
82.00	0.00	629	146.50	0.00	0.00	0.00
84.00	0.00	629	146.50	0.00	0.00	0.00
86.00	0.00	629	146.50	0.00	0.00	0.00
88.00	0.00	629	146.50	0.00	0.00	0.00
90.00	0.00	629	146.50	0.00	0.00	0.00
92.00	0.00	629	146.50	0.00	0.00	0.00
94.00	0.00	629	146.50	0.00	0.00	0.00
96.00	0.00	629	146.50	0.00	0.00	0.00
98.00	0.00	629	146.50	0.00	0.00	0.00
100.00	0.00	629	146.50	0.00	0.00	0.00

Stage-Discharge for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
143.50	0.00	0.00	0.00	582.10	2.79	0.00	2.79
152.10	0.32	0.00	0.32	590.70	2.82	0.00	2.82
160.70	0.50	0.00	0.50	599.30	2.85	0.00	2.85
169.30	0.64	0.00	0.64	607.90	2.87	0.00	2.87
177.90	0.75	0.00	0.75	616.50	2.90	0.00	2.90
186.50	0.85	0.00	0.85	625.10	2.93	0.00	2.93
195.10	0.93	0.00	0.93	633.70	2.95	0.00	2.95
203.70	1.01	0.00	1.01	642.30	2.98	0.00	2.98
212.30	1.08	0.00	1.08	650.90	3.00	0.00	3.00
220.90	1.15	0.00	1.15	659.50	3.03	0.00	3.03
229.50	1.22	0.00	1.22	668.10	3.05	0.00	3.05
238.10	1.28	0.00	1.28	676.70	3.08	0.00	3.08
246.70	1.34	0.00	1.34	685.30	3.10	0.00	3.10
255.30	1.40	0.00	1.40	693.90	3.13	0.00	3.13
263.90	1.45	0.00	1.45	702.50	3.15	0.00	3.15
272.50	1.50	0.00	1.50	711.10	3.18	0.00	3.18
281.10	1.55	0.00	1.55	719.70	3.20	0.00	3.20
289.70	1.60	0.00	1.60	728.30	3.23	0.00	3.23
298.30	1.65	0.00	1.65	736.90	3.25	0.00	3.25
306.90	1.69	0.00	1.69	745.50	3.27	0.00	3.27
315.50	1.74	0.00	1.74	754.10	3.30	0.00	3.30
324.10	1.78	0.00	1.78	762.70	3.32	0.00	3.32
332.70	1.83	0.00	1.83	771.30	3.34	0.00	3.34
341.30	1.87	0.00	1.87	779.90	3.37	0.00	3.37
349.90	1.91	0.00	1.91	788.50	3.39	0.00	3.39
358.50	1.95	0.00	1.95	797.10	3.41	0.00	3.41
367.10	1.99	0.00	1.99	805.70	3.43	0.00	3.43
375.70	2.02	0.00	2.02	814.30	3.46	0.00	3.46
384.30	2.06	0.00	2.06	822.90	3.48	0.00	3.48
392.90	2.10	0.00	2.10	831.50	3.50	0.00	3.50
401.50	2.14	0.00	2.14	840.10	3.52	0.00	3.52
410.10	2.17	0.00	2.17	848.70	3.54	0.00	3.54
418.70	2.21	0.00	2.21	857.30	3.57	0.00	3.57
427.30	2.24	0.00	2.24	865.90	3.59	0.00	3.59
435.90	2.28	0.00	2.28	874.50	3.61	0.00	3.61
444.50	2.31	0.00	2.31	883.10	3.63	0.00	3.63
453.10	2.34	0.00	2.34	891.70	3.65	0.00	3.65
461.70	2.37	0.00	2.37	900.30	3.67	0.00	3.67
470.30	2.41	0.00	2.41	908.90	3.69	0.00	3.69
478.90	2.44	0.00	2.44	917.50	3.71	0.00	3.71
487.50	2.47	0.00	2.47	926.10	3.73	0.00	3.73
496.10	2.50	0.00	2.50	934.70	3.75	0.00	3.75
504.70	2.53	0.00	2.53	943.30	3.78	0.00	3.78
513.30	2.56	0.00	2.56	951.90	3.80	0.00	3.80
521.90	2.59	0.00	2.59	960.50	3.82	0.00	3.82
530.50	2.62	0.00	2.62	969.10	3.84	0.00	3.84
539.10	2.65	0.00	2.65	977.70	3.86	0.00	3.86
547.70	2.68	0.00	2.68	986.30	3.88	0.00	3.88
556.30	2.71	0.00	2.71	994.90	3.90	0.00	3.90
564.90	2.74	0.00	2.74				
573.50	2.76	0.00	2.76				

Stage-Area-Storage for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
143.50	4	0	582.10	27,350	30,636
152.10	27,350	30,636	590.70	27,350	30,636
160.70	27,350	30,636	599.30	27,350	30,636
169.30	27,350	30,636	607.90	27,350	30,636
177.90	27,350	30,636	616.50	27,350	30,636
186.50	27,350	30,636	625.10	27,350	30,636
195.10	27,350	30,636	633.70	27,350	30,636
203.70	27,350	30,636	642.30	27,350	30,636
212.30	27,350	30,636	650.90	27,350	30,636
220.90	27,350	30,636	659.50	27,350	30,636
229.50	27,350	30,636	668.10	27,350	30,636
238.10	27,350	30,636	676.70	27,350	30,636
246.70	27,350	30,636	685.30	27,350	30,636
255.30	27,350	30,636	693.90	27,350	30,636
263.90	27,350	30,636	702.50	27,350	30,636
272.50	27,350	30,636	711.10	27,350	30,636
281.10	27,350	30,636	719.70	27,350	30,636
289.70	27,350	30,636	728.30	27,350	30,636
298.30	27,350	30,636	736.90	27,350	30,636
306.90	27,350	30,636	745.50	27,350	30,636
315.50	27,350	30,636	754.10	27,350	30,636
324.10	27,350	30,636	762.70	27,350	30,636
332.70	27,350	30,636	771.30	27,350	30,636
341.30	27,350	30,636	779.90	27,350	30,636
349.90	27,350	30,636	788.50	27,350	30,636
358.50	27,350	30,636	797.10	27,350	30,636
367.10	27,350	30,636	805.70	27,350	30,636
375.70	27,350	30,636	814.30	27,350	30,636
384.30	27,350	30,636	822.90	27,350	30,636
392.90	27,350	30,636	831.50	27,350	30,636
401.50	27,350	30,636	840.10	27,350	30,636
410.10	27,350	30,636	848.70	27,350	30,636
418.70	27,350	30,636	857.30	27,350	30,636
427.30	27,350	30,636	865.90	27,350	30,636
435.90	27,350	30,636	874.50	27,350	30,636
444.50	27,350	30,636	883.10	27,350	30,636
453.10	27,350	30,636	891.70	27,350	30,636
461.70	27,350	30,636	900.30	27,350	30,636
470.30	27,350	30,636	908.90	27,350	30,636
478.90	27,350	30,636	917.50	27,350	30,636
487.50	27,350	30,636	926.10	27,350	30,636
496.10	27,350	30,636	934.70	27,350	30,636
504.70	27,350	30,636	943.30	27,350	30,636
513.30	27,350	30,636	951.90	27,350	30,636
521.90	27,350</				

Summary for Pond 44P: P-300 Rainwater Garden

Inflow Area = 1,590 ac, 2.52% Impervious, Inflow Depth = 0.60" for 10-Year event
 Inflow = 0.21 cfs @ 12.86 hrs, Volume= 0.079 af
 Outflow = 0.35 cfs @ 13.01 hrs, Volume= 0.066 af, Atten= 0%, Lag= 8.8 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Primary = 0.35 cfs @ 13.01 hrs, Volume= 0.066 af

Routing by Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 147.16' @ 13.00 hrs Surf.Area= 3,595 sf Storage= 569 cf

Plug-Flow detention time= 125.1 min calculated for 0.066 af (84% of inflow)
 Center-of-Mass det. time= 50.4 min (1,007.3 - 956.9)

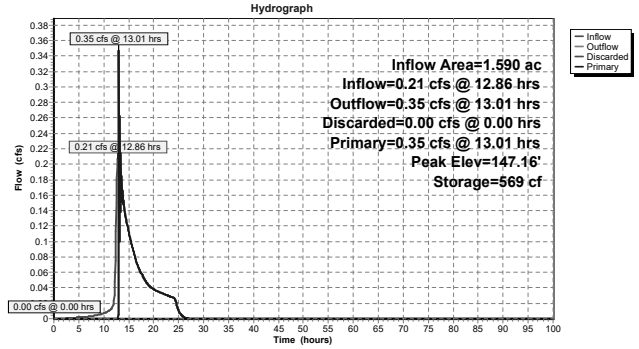
Volume	Invert	Avail.Storage	Storage Description
#1	147.00'	8,800 cf	Custom Stage Data (Prismatic), Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.00	3,400	0	0
148.00	4,600	4,000	4,000
149.00	5,000	4,800	8,800

Device	Routing	Invert	Outlet Devices
#1	Discarded	1,000.00'	1,000 in/hr Exfiltration over Surface area above 1,000.00' Conductivity to Groundwater Elevation = 140.00' Excluded Surface area = 5,000 sf
#2	Primary	147.16'	Asymmetrical Weir, C= 3.27 Offset (feet) 1,100.00 1,150.00 1,200.00 1,255.00 Elev. (feet) 148.00 147.16 147.91 148.00

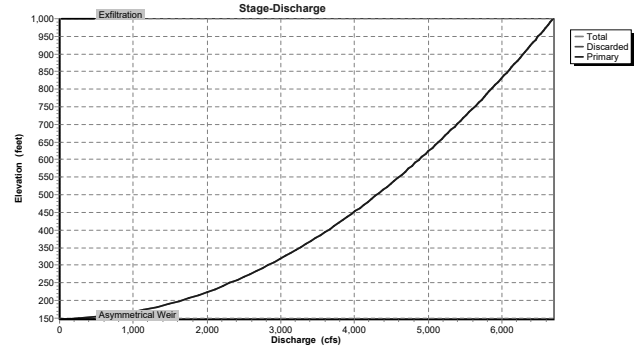
Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=147.00' (Free Discharge)
 1=Exfiltration (Controls 0.00 cfs)

Primary OutFlow Max=0.00 cfs @ 13.01 hrs HW=147.16' (Free Discharge)
 2=Asymmetrical Weir (Weir Controls 0.00 cfs @ 0.07 fps)

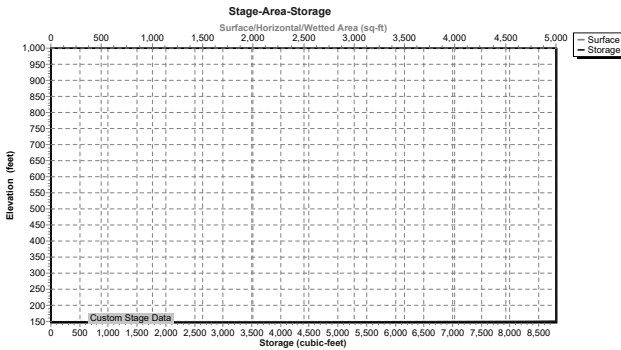
Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Hydrograph for Pond 44P: P-300 Rainwater Garden

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	147.00	0.00	0.00	0.00
2.00	0.00	0	147.00	0.00	0.00	0.00
4.00	0.00	6	147.00	0.00	0.00	0.00
6.00	0.00	19	147.01	0.00	0.00	0.00
8.00	0.00	40	147.01	0.00	0.00	0.00
10.00	0.01	78	147.02	0.00	0.00	0.00
12.00	0.02	158	147.05	0.00	0.00	0.00
14.00	0.15	564	147.16	0.15	0.00	0.15
16.00	0.09	562	147.16	0.09	0.00	0.09
18.00	0.05	561	147.16	0.05	0.00	0.05
20.00	0.04	561	147.16	0.04	0.00	0.04
22.00	0.03	560	147.16	0.03	0.00	0.03
24.00	0.03	560	147.16	0.03	0.00	0.03
26.00	0.00	559	147.16	0.00	0.00	0.00
28.00	0.00	559	147.16	0.00	0.00	0.00
30.00	0.00	559	147.16	0.00	0.00	0.00
32.00	0.00	559	147.16	0.00	0.00	0.00
34.00	0.00	559	147.16	0.00	0.00	0.00
36.00	0.00	559	147.16	0.00	0.00	0.00
38.00	0.00	559	147.16	0.00	0.00	0.00
40.00	0.00	559	147.16	0.00	0.00	0.00
42.00	0.00	559	147.16	0.00	0.00	0.00
44.00	0.00	559	147.16	0.00	0.00	0.00
46.00	0.00	559	147.16	0.00	0.00	0.00
48.00	0.00	559	147.16	0.00	0.00	0.00
50.00	0.00	559	147.16	0.00	0.00	0.00
52.00	0.00	559	147.16	0.00	0.00	0.00
54.00	0.00	559	147.16	0.00	0.00	0.00
56.00	0.00	559	147.16	0.00	0.00	0.00
58.00	0.00	559	147.16	0.00	0.00	0.00
60.00	0.00	559	147.16	0.00	0.00	0.00
62.00	0.00	559	147.16	0.00	0.00	0.00
64.00	0.00	559	147.16	0.00	0.00	0.00
66.00	0.00	559	147.16	0.00	0.00	0.00
68.00	0.00	559	147.16	0.00	0.00	0.00
70.00	0.00	559	147.16	0.00	0.00	0.00
72.00	0.00	559	147.16	0.00	0.00	0.00
74.00	0.00	559	147.16	0.00	0.00	0.00
76.00	0.00	559	147.16	0.00	0.00	0.00
78.00	0.00	559	147.16	0.00	0.00	0.00
80.00	0.00	559	147.16	0.00	0.00	0.00
82.00	0.00	559	147.16	0.00	0.00	0.00
84.00	0.00	559	147.16	0.00	0.00	0.00
86.00	0.00	559	147.16	0.00	0.00	0.00
88.00	0.00	559	147.16	0.00	0.00	0.00
90.00	0.00	559	147.16	0.00	0.00	0.00
92.00	0.00	559	147.16	0.00	0.00	0.00
94.00	0.00	559	147.16	0.00	0.00	0.00
96.00	0.00	559	147.16	0.00	0.00	0.00
98.00	0.00	559	147.16	0.00	0.00	0.00
100.00	0.00	559	147.16	0.00	0.00	0.00

Stage-Discharge for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
147.00	0.00	0.00	0.00	583.05	4,781.80	0.00	4,781.80
155.55	640.78	0.00	640.78	591.60	4,828.53	0.00	4,828.53
164.10	927.22	0.00	927.22	600.15	4,874.82	0.00	4,874.82
172.65	1,144.05	0.00	1,144.05	608.70	4,920.66	0.00	4,920.66
181.20	1,325.87	0.00	1,325.87	617.25	4,966.09	0.00	4,966.09
189.75	1,485.61	0.00	1,485.61	625.80	5,011.10	0.00	5,011.10
198.30	1,629.77	0.00	1,629.77	634.35	5,055.71	0.00	5,055.71
206.85	1,762.17	0.00	1,762.17	642.90	5,099.94	0.00	5,099.94
215.40	1,885.30	0.00	1,885.30	651.45	5,143.78	0.00	5,143.78
223.95	2,000.86	0.00	2,000.86	660.00	5,187.25	0.00	5,187.25
232.50	2,110.11	0.00	2,110.11	668.55	5,230.36	0.00	5,230.36
241.05	2,213.97	0.00	2,213.97	677.10	5,273.11	0.00	5,273.11
249.60	2,313.17	0.00	2,313.17	685.65	5,315.53	0.00	5,315.53
258.15	2,408.29	0.00	2,408.29	694.20	5,357.61	0.00	5,357.61
266.70	2,499.79	0.00	2,499.79	702.75	5,399.36	0.00	5,399.36
275.25	2,588.06	0.00	2,588.06	711.30	5,440.78	0.00	5,440.78
283.80	2,673.42	0.00	2,673.42	719.85	5,481.90	0.00	5,481.90
292.35	2,756.13	0.00	2,756.13	728.40	5,522.71	0.00	5,522.71
300.90	2,836.43	0.00	2,836.43	736.95	5,563.22	0.00	5,563.22
309.45	2,914.52	0.00	2,914.52	745.50	5,603.44	0.00	5,603.44
318.00	2,990.58	0.00	2,990.58	754.05	5,643.37	0.00	5,643.37
326.55	3,064.74	0.00	3,064.74	762.60	5,683.02	0.00	5,683.02
335.10	3,137.16	0.00	3,137.16	771.15	5,722.40	0.00	5,722.40
343.65	3,207.94	0.00	3,207.94	779.70	5,761.50	0.00	5,761.50
352.20	3,277.19	0.00	3,277.19	788.25	5,800.35	0.00	5,800.35
360.75	3,345.00	0.00	3,345.00	796.80	5,838.93	0.00	5,838.93
369.30	3,411.47	0.00	3,411.47	805.35	5,877.26	0.00	5,877.26
377.85	3,476.67	0.00	3,476.67	813.90	5,915.35	0.00	5,915.35
386.40	3,540.67	0.00	3,540.67	822.45	5,953.19	0.00	5,953.19
394.95	3,603.53	0.00	3,603.53	831.00	5,990.79	0.00	5,990.79
403.50	3,665.32	0.00	3,665.32	839.55	6,028.15	0.00	6,028.15
412.05	3,726.08	0.00	3,726.08	848.10	6,065.29	0.00	6,065.29
420.60	3,785.86	0.00	3,785.86	856.65	6,102.20	0.00	6,102.20
429.15	3,844.72	0.00	3,844.72	865.20	6,138.89	0.00	6,138.89
437.70	3,902.68	0.00	3,902.68	873.75	6,175.36	0.00	6,175.36
446.25	3,959.80	0.00	3,959.80	882.30	6,211.61	0.00	6,211.61
454.80	4,016.11	0.00	4,016.11	890.85	6,247.66	0.00	6,247.66
463.35	4,071.64	0.00	4,071.64	899.40	6,283.50	0.00	6,283.50
471.90	4,126.42	0.00	4,126.42	907.95	6,319.13	0.00	6,319.13
480.45	4,180.48	0.00	4,180.48	916.50	6,354.57	0.00	6,354.57
489.00	4,233.86	0.00	4,233.86	925.05	6,389.81	0.00	6,389.81
497.55	4,286.57	0.00	4,286.57	933.60	6,424.85	0.00	6,424.85
506.10	4,338.63	0.00	4,338.63	942.15	6,459.71	0.00	6,459.71
514.65	4,390.09	0.00	4,390.09	950.70	6,494.38	0.00	6,494.38
523.20	4,440.94	0.00	4,440.94	959.25	6,528.86	0.00	6,528.86
531.75	4,491.22	0.00	4,491.22	967.80	6,563.16	0.00	6,563.16
540.30	4,540.94	0.00	4,540.94	976.35	6,597.29	0.00	6,597.29
548.85	4,590.12	0.00	4,590.12	984.90	6,631.24	0.00	6,631.24
557.40	4,638.79	0.00	4,638.79	993.45	6,665.02	0.00	6,665.02
565.95	4,686.94	0.00	4,686.94				
574.50	4,734.61	0.00	4,734.61				

Stage-Area-Storage for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.00	3,400	0	583.05	5,000	8,800
155.55	5,000	8,800	591.60	5,000	8,800
164.10	5,000	8,800	600.15	5,000	8,800
172.65	5,000	8,800	608.70	5,000	8,800
181.20	5,000	8,800	617.25	5,000	8,800
189.75	5,000	8,800	625.80	5,000	8,800
198.30	5,000	8,800	634.35	5,000	8,800
206.85	5,000	8,800	642.90	5,000	8,800
215.40	5,000	8,800	651.45	5,000	8,800
223.95	5,000	8,800	660.00	5,000	8,800
232.50	5,000	8,800	668.55	5,000	8,800
241.05	5,000	8,800	677.10	5,000	8,800
249.60	5,000	8,800	685.65	5,000	8,800
258.15	5,000	8,800	694.20	5,000	8,800
266.70	5,000	8,800	702.75	5,000	8,800
275.25	5,000	8,800	711.30	5,000	8,800
283.80	5,000	8,800	719.85	5,000	8,800
292.35	5,000	8,800	728.40	5,000	8,800
300.90	5,000	8,800	736.95	5,000	8,800
309.45	5,000	8,800	745.50	5,000	8,800
318.00	5,000	8,800	754.05	5,000	8,800
326.55	5,000	8,800	762.60	5,000	8,800
335.10	5,000	8,800	771.15	5,000	8,800
343.65	5,000	8,800	779.70	5,000	8,800
352.20	5,000	8,800	788.25	5,000	8,800
360.75	5,000	8,800	796.80	5,000	8,800
369.30	5,000	8,800	805.35	5,000	8,800
377.85	5,000	8,800	813.90	5,000	8,800
386.40	5,000	8,800	822.45	5,000	8,800
394.95	5,000	8,800	831.00	5,000	8,800
403.50	5,000	8,800	839.55	5,000	8,800
412.05	5,000	8,800	848.10	5,000	8,800
420.60	5,000	8,800	856.65	5,000	8,800
429.15	5,000	8,800	865.20	5,000	8,800
437.70	5,000	8,800	873.75	5,000	8,800
446.25	5,000	8,800	882.30	5,000	8,800
454.80	5,000	8,800	890.85	5,000	8,800
463.35	5,000	8,800	899.40	5,000	8,800
471.90	5,000	8,800	907.95	5,000	8,800
480.45	5,000	8,800	916.50	5,000	8,800
489.00	5,000	8,800	925.05	5,000	8,800
497.55	5,000	8,800	933.60	5,000	8,800
506.10	5,000	8,800	942.15	5,000	8,800
514.65	5,000	8,800	950.70	5,000	8,800
523.20	5,000	8,800	959.25	5,000	8,800
531.75	5,000	8,800	967.80	5,000	8,800
540.30	5,000	8,800	976.35	5,000	8,800
548.85	5,000	8,800	984.90	5,000	8,800
557.40	5,000	8,800	993.45	5,000	8,800
565.95	5,000	8,800			
574.50	5,000	8,800			

Time span=0.00-100.00 hrs, dt=0.10 hrs, 1001 points
 Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: E-100 PERV	Runoff Area=2.270 ac 0.00% Impervious Runoff Depth=2.05" Flow Length=610' Tc=16.5 min CN=60 Runoff=2.62 cfs 0.388 af
Subcatchment2S: E-200 PERV	Runoff Area=3.720 ac 0.00% Impervious Runoff Depth=1.80" Flow Length=373' Tc=31.5 min CN=57 Runoff=2.60 cfs 0.558 af
Subcatchment3S: E-300 PERV	Runoff Area=1.590 ac 0.00% Impervious Runoff Depth=0.95" Flow Length=300' Slope=0.0100 '/' Tc=40.2 min CN=46 Runoff=0.39 cfs 0.126 af
Subcatchment4S: E-400 PERV	Runoff Area=3.460 ac 0.00% Impervious Runoff Depth=0.34" Flow Length=150' Slope=0.0250 '/' Tc=15.9 min CN=36 Runoff=0.22 cfs 0.099 af
Subcatchment45S: P-100 PERV	Runoff Area=1.760 ac 0.00% Impervious Runoff Depth=2.14" Flow Length=610' Tc=16.5 min CN=61 Runoff=2.14 cfs 0.314 af
Subcatchment46S: P-200 PERV	Runoff Area=3.190 ac 0.00% Impervious Runoff Depth=1.80" Flow Length=373' Tc=31.5 min CN=57 Runoff=2.23 cfs 0.478 af
Subcatchment47S: P-300 PERV	Runoff Area=1.550 ac 0.00% Impervious Runoff Depth=0.95" Flow Length=300' Slope=0.0100 '/' Tc=40.2 min CN=46 Runoff=0.38 cfs 0.123 af
Subcatchment48S: P-400 PERV	Runoff Area=3.400 ac 0.00% Impervious Runoff Depth=0.34" Flow Length=150' Slope=0.0250 '/' Tc=15.9 min CN=36 Runoff=0.22 cfs 0.097 af
Subcatchment49S: P-100 IMP	Runoff Area=0.510 ac 100.00% Impervious Runoff Depth=5.96" Flow Length=610' Tc=16.5 min CN=98 Runoff=1.63 cfs 0.253 af
Subcatchment50S: P-200 IMP	Runoff Area=0.530 ac 100.00% Impervious Runoff Depth=5.96" Flow Length=373' Tc=31.5 min CN=98 Runoff=1.24 cfs 0.263 af
Subcatchment51S: P-300 IMP	Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=5.96" Flow Length=300' Slope=0.0100 '/' Tc=40.2 min CN=98 Runoff=0.08 cfs 0.020 af
Subcatchment52S: P-400 IMP	Runoff Area=0.060 ac 100.00% Impervious Runoff Depth=5.96" Flow Length=150' Slope=0.0250 '/' Tc=15.9 min CN=98 Runoff=0.20 cfs 0.030 af

Reach 6R: E-100	Inflow=2.62 cfs 0.388 af Outflow=2.62 cfs 0.388 af
Reach 7R: E-200	Inflow=2.60 cfs 0.558 af Outflow=2.60 cfs 0.558 af
Reach 8R: E-300	Inflow=0.39 cfs 0.126 af Outflow=0.39 cfs 0.126 af
Reach 22R: E-400	Inflow=0.22 cfs 0.099 af Outflow=0.22 cfs 0.099 af

Reach 23R: E-POA "A"	Inflow=4.96 cfs 0.946 af Outflow=4.96 cfs 0.946 af
Reach 25R: E-POA "B"	Inflow=0.61 cfs 0.225 af Outflow=0.61 cfs 0.225 af
Reach 26R: E-POA	Inflow=5.43 cfs 1.171 af Outflow=5.43 cfs 1.171 af
Reach 38R: P-400	Inflow=0.35 cfs 0.127 af Outflow=0.35 cfs 0.127 af
Reach 39R: P-POA "A"	Inflow=3.86 cfs 1.294 af Outflow=3.86 cfs 1.294 af
Reach 40R: P-POA "B"	Inflow=0.80 cfs 0.257 af Outflow=0.80 cfs 0.257 af
Reach 41R: P-POA	Inflow=4.11 cfs 1.551 af Outflow=4.11 cfs 1.551 af
Reach 46R: P-100	Inflow=3.75 cfs 0.567 af Outflow=3.75 cfs 0.567 af
Pond 43P: P-200 Station 1450 Culvert	Peak Elev=148.64' Storage=21,796 cf Inflow=3.45 cfs 0.741 af Discarded=0.00 cfs 0.000 af Primary=0.19 cfs 0.727 af Outflow=0.19 cfs 0.727 af
Pond 44P: P-300 Rainwater Garden	Peak Elev=147.16' Storage=573 cf Inflow=0.46 cfs 0.143 af Discarded=0.00 cfs 0.000 af Primary=0.47 cfs 0.130 af Outflow=0.47 cfs 0.130 af
Total Runoff Area = 22.080 ac Runoff Volume = 2,749 af Average Runoff Depth = 1.49"	
94.84% Pervious = 20.940 ac 5.16% Impervious = 1.140 ac	

Summary for Subcatchment 1S: E-100 PERV

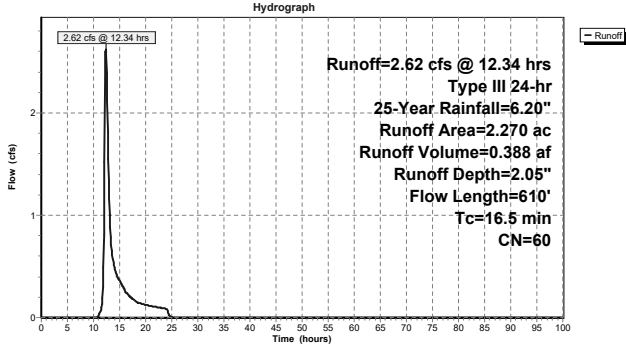
Runoff = 2.62 cfs @ 12.34 hrs, Volume= 0.388 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
0.420	55	Woods, Good, HSG B
1.850	61	>75% Grass cover, Good, HSG B
2.270	60	Weighted Average
2.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 1S: E-100 PERV



Hydrograph for Subcatchment 1S: E-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	2.05	0.00
1.00	0.06	0.00	0.00	52.00	6.20	2.05	0.00
2.00	0.12	0.00	0.00	53.00	6.20	2.05	0.00
3.00	0.19	0.00	0.00	54.00	6.20	2.05	0.00
4.00	0.27	0.00	0.00	55.00	6.20	2.05	0.00
5.00	0.35	0.00	0.00	56.00	6.20	2.05	0.00
6.00	0.45	0.00	0.00	57.00	6.20	2.05	0.00
7.00	0.56	0.00	0.00	58.00	6.20	2.05	0.00
8.00	0.71	0.00	0.00	59.00	6.20	2.05	0.00
9.00	0.90	0.00	0.00	60.00	6.20	2.05	0.00
10.00	1.17	0.00	0.00	61.00	6.20	2.05	0.00
11.00	1.55	0.01	0.02	62.00	6.20	2.05	0.00
12.00	3.10	0.37	0.81	63.00	6.20	2.05	0.00
13.00	4.65	1.10	1.16	64.00	6.20	2.05	0.00
14.00	5.03	1.32	0.49	65.00	6.20	2.05	0.00
15.00	5.30	1.48	0.36	66.00	6.20	2.05	0.00
16.00	5.49	1.60	0.27	67.00	6.20	2.05	0.00
17.00	5.64	1.69	0.21	68.00	6.20	2.05	0.00
18.00	5.75	1.76	0.16	69.00	6.20	2.05	0.00
19.00	5.85	1.82	0.14	70.00	6.20	2.05	0.00
20.00	5.93	1.88	0.13	71.00	6.20	2.05	0.00
21.00	6.01	1.93	0.11	72.00	6.20	2.05	0.00
22.00	6.08	1.97	0.10	73.00	6.20	2.05	0.00
23.00	6.14	2.02	0.09	74.00	6.20	2.05	0.00
24.00	6.20	2.05	0.08	75.00	6.20	2.05	0.00
25.00	6.20	2.05	0.00	76.00	6.20	2.05	0.00
26.00	6.20	2.05	0.00	77.00	6.20	2.05	0.00
27.00	6.20	2.05	0.00	78.00	6.20	2.05	0.00
28.00	6.20	2.05	0.00	79.00	6.20	2.05	0.00
29.00	6.20	2.05	0.00	80.00	6.20	2.05	0.00
30.00	6.20	2.05	0.00	81.00	6.20	2.05	0.00
31.00	6.20	2.05	0.00	82.00	6.20	2.05	0.00
32.00	6.20	2.05	0.00	83.00	6.20	2.05	0.00
33.00	6.20	2.05	0.00	84.00	6.20	2.05	0.00
34.00	6.20	2.05	0.00	85.00	6.20	2.05	0.00
35.00	6.20	2.05	0.00	86.00	6.20	2.05	0.00
36.00	6.20	2.05	0.00	87.00	6.20	2.05	0.00
37.00	6.20	2.05	0.00	88.00	6.20	2.05	0.00
38.00	6.20	2.05	0.00	89.00	6.20	2.05	0.00
39.00	6.20	2.05	0.00	90.00	6.20	2.05	0.00
40.00	6.20	2.05	0.00	91.00	6.20	2.05	0.00
41.00	6.20	2.05	0.00	92.00	6.20	2.05	0.00
42.00	6.20	2.05	0.00	93.00	6.20	2.05	0.00
43.00	6.20	2.05	0.00	94.00	6.20	2.05	0.00
44.00	6.20	2.05	0.00	95.00	6.20	2.05	0.00
45.00	6.20	2.05	0.00	96.00	6.20	2.05	0.00
46.00	6.20	2.05	0.00	97.00	6.20	2.05	0.00
47.00	6.20	2.05	0.00	98.00	6.20	2.05	0.00
48.00	6.20	2.05	0.00	99.00	6.20	2.05	0.00
49.00	6.20	2.05	0.00	100.00	6.20	2.05	0.00
50.00	6.20	2.05	0.00				

Summary for Subcatchment 2S: E-200 PERV

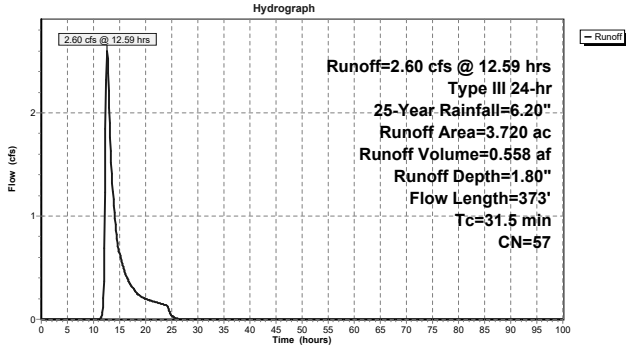
Runoff = 2.60 cfs @ 12.59 hrs, Volume= 0.558 af, Depth= 1.80"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
2.400	55	Woods, Good, HSG B
0.010	30	Woods, Good, HSG A
1.310	61	>75% Grass cover, Good, HSG B
3.720	57	Weighted Average
3.720		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 2S: E-200 PERV



Hydrograph for Subcatchment 2S: E-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	1.80	0.00
1.00	0.06	0.00	0.00	52.00	6.20	1.80	0.00
2.00	0.12	0.00	0.00	53.00	6.20	1.80	0.00
3.00	0.19	0.00	0.00	54.00	6.20	1.80	0.00
4.00	0.27	0.00	0.00	55.00	6.20	1.80	0.00
5.00	0.35	0.00	0.00	56.00	6.20	1.80	0.00
6.00	0.45	0.00	0.00	57.00	6.20	1.80	0.00
7.00	0.56	0.00	0.00	58.00	6.20	1.80	0.00
8.00	0.71	0.00	0.00	59.00	6.20	1.80	0.00
9.00	0.90	0.00	0.00	60.00	6.20	1.80	0.00
10.00	1.17	0.00	0.00	61.00	6.20	1.80	0.00
11.00	1.55	0.00	0.00	62.00	6.20	1.80	0.00
12.00	3.10	0.28	0.37	63.00	6.20	1.80	0.00
13.00	4.65	0.92	2.05	64.00	6.20	1.80	0.00
14.00	5.03	1.12	1.03	65.00	6.20	1.80	0.00
15.00	5.30	1.27	0.64	66.00	6.20	1.80	0.00
16.00	5.49	1.38	0.46	67.00	6.20	1.80	0.00
17.00	5.64	1.46	0.35	68.00	6.20	1.80	0.00
18.00	5.75	1.53	0.27	69.00	6.20	1.80	0.00
19.00	5.85	1.58	0.22	70.00	6.20	1.80	0.00
20.00	5.93	1.64	0.20	71.00	6.20	1.80	0.00
21.00	6.01	1.68	0.18	72.00	6.20	1.80	0.00
22.00	6.08	1.73	0.17	73.00	6.20	1.80	0.00
23.00	6.14	1.76	0.15	74.00	6.20	1.80	0.00
24.00	6.20	1.80	0.13	75.00	6.20	1.80	0.00
25.00	6.20	1.80	0.04	76.00	6.20	1.80	0.00
26.00	6.20	1.80	0.01	77.00	6.20	1.80	0.00
27.00	6.20	1.80	0.00	78.00	6.20	1.80	0.00
28.00	6.20	1.80	0.00	79.00	6.20	1.80	0.00
29.00	6.20	1.80	0.00	80.00	6.20	1.80	0.00
30.00	6.20	1.80	0.00	81.00	6.20	1.80	0.00
31.00	6.20	1.80	0.00	82.00	6.20	1.80	0.00
32.00	6.20	1.80	0.00	83.00	6.20	1.80	0.00
33.00	6.20	1.80	0.00	84.00	6.20	1.80	0.00
34.00	6.20	1.80	0.00	85.00	6.20	1.80	0.00
35.00	6.20	1.80	0.00	86.00	6.20	1.80	0.00
36.00	6.20	1.80	0.00	87.00	6.20	1.80	0.00
37.00	6.20	1.80	0.00	88.00	6.20	1.80	0.00
38.00	6.20	1.80	0.00	89.00	6.20	1.80	0.00
39.00	6.20	1.80	0.00	90.00	6.20	1.80	0.00
40.00	6.20	1.80	0.00	91.00	6.20	1.80	0.00
41.00	6.20	1.80	0.00	92.00	6.20	1.80	0.00
42.00	6.20	1.80	0.00	93.00	6.20	1.80	0.00
43.00	6.20	1.80	0.00	94.00	6.20	1.80	0.00
44.00	6.20	1.80	0.00	95.00	6.20	1.80	0.00
45.00	6.20	1.80	0.00	96.00	6.20	1.80	0.00
46.00	6.20	1.80	0.00	97.00	6.20	1.80	0.00
47.00	6.20	1.80	0.00	98.00	6.20	1.80	0.00
48.00	6.20	1.80	0.00	99.00	6.20	1.80	0.00
49.00	6.20	1.80	0.00	100.00	6.20	1.80	0.00
50.00	6.20	1.80	0.00				

Summary for Subcatchment 3S: E-300 PERV

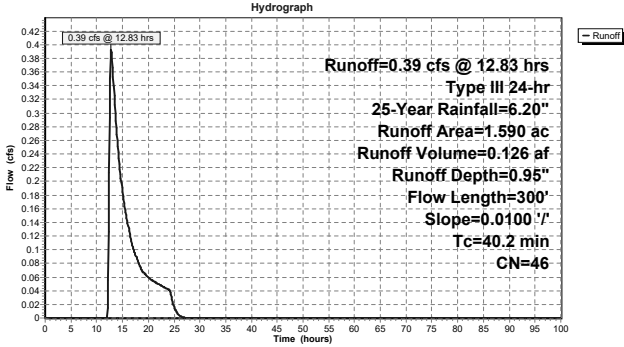
Runoff = 0.39 cfs @ 12.83 hrs, Volume= 0.126 af, Depth= 0.95"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	Pasture/grassland/range, Good, HSG B
0.940	39	Pasture/grassland/range, Good, HSG A
1.590	46	Weighted Average
1.590		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 3S: E-300 PERV



Hydrograph for Subcatchment 3S: E-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	0.95	0.00
1.00	0.06	0.00	0.00	52.00	6.20	0.95	0.00
2.00	0.12	0.00	0.00	53.00	6.20	0.95	0.00
3.00	0.19	0.00	0.00	54.00	6.20	0.95	0.00
4.00	0.27	0.00	0.00	55.00	6.20	0.95	0.00
5.00	0.35	0.00	0.00	56.00	6.20	0.95	0.00
6.00	0.45	0.00	0.00	57.00	6.20	0.95	0.00
7.00	0.56	0.00	0.00	58.00	6.20	0.95	0.00
8.00	0.71	0.00	0.00	59.00	6.20	0.95	0.00
9.00	0.90	0.00	0.00	60.00	6.20	0.95	0.00
10.00	1.17	0.00	0.00	61.00	6.20	0.95	0.00
11.00	1.55	0.00	0.00	62.00	6.20	0.95	0.00
12.00	3.10	0.05	0.00	63.00	6.20	0.95	0.00
13.00	4.65	0.38	0.38	64.00	6.20	0.95	0.00
14.00	5.03	0.50	0.26	65.00	6.20	0.95	0.00
15.00	5.30	0.59	0.18	66.00	6.20	0.95	0.00
16.00	5.49	0.66	0.14	67.00	6.20	0.95	0.00
17.00	5.64	0.72	0.10	68.00	6.20	0.95	0.00
18.00	5.75	0.77	0.08	69.00	6.20	0.95	0.00
19.00	5.85	0.80	0.07	70.00	6.20	0.95	0.00
20.00	5.93	0.84	0.06	71.00	6.20	0.95	0.00
21.00	6.01	0.87	0.05	72.00	6.20	0.95	0.00
22.00	6.08	0.90	0.05	73.00	6.20	0.95	0.00
23.00	6.14	0.93	0.05	74.00	6.20	0.95	0.00
24.00	6.20	0.95	0.04	75.00	6.20	0.95	0.00
25.00	6.20	0.95	0.02	76.00	6.20	0.95	0.00
26.00	6.20	0.95	0.00	77.00	6.20	0.95	0.00
27.00	6.20	0.95	0.00	78.00	6.20	0.95	0.00
28.00	6.20	0.95	0.00	79.00	6.20	0.95	0.00
29.00	6.20	0.95	0.00	80.00	6.20	0.95	0.00
30.00	6.20	0.95	0.00	81.00	6.20	0.95	0.00
31.00	6.20	0.95	0.00	82.00	6.20	0.95	0.00
32.00	6.20	0.95	0.00	83.00	6.20	0.95	0.00
33.00	6.20	0.95	0.00	84.00	6.20	0.95	0.00
34.00	6.20	0.95	0.00	85.00	6.20	0.95	0.00
35.00	6.20	0.95	0.00	86.00	6.20	0.95	0.00
36.00	6.20	0.95	0.00	87.00	6.20	0.95	0.00
37.00	6.20	0.95	0.00	88.00	6.20	0.95	0.00
38.00	6.20	0.95	0.00	89.00	6.20	0.95	0.00
39.00	6.20	0.95	0.00	90.00	6.20	0.95	0.00
40.00	6.20	0.95	0.00	91.00	6.20	0.95	0.00
41.00	6.20	0.95	0.00	92.00	6.20	0.95	0.00
42.00	6.20	0.95	0.00	93.00	6.20	0.95	0.00
43.00	6.20	0.95	0.00	94.00	6.20	0.95	0.00
44.00	6.20	0.95	0.00	95.00	6.20	0.95	0.00
45.00	6.20	0.95	0.00	96.00	6.20	0.95	0.00
46.00	6.20	0.95	0.00	97.00	6.20	0.95	0.00
47.00	6.20	0.95	0.00	98.00	6.20	0.95	0.00
48.00	6.20	0.95	0.00	99.00	6.20	0.95	0.00
49.00	6.20	0.95	0.00	100.00	6.20	0.95	0.00
50.00	6.20	0.95	0.00				

Summary for Subcatchment 4S: E-400 PERV

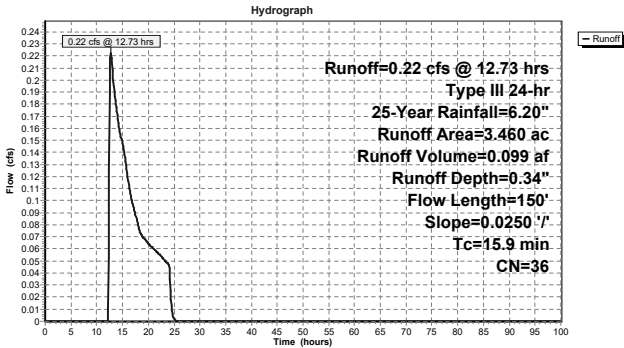
Runoff = 0.22 cfs @ 12.73 hrs, Volume= 0.099 af, Depth= 0.34"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.980	39	Pasture/grassland/range, Good, HSG A
3.460	36	Weighted Average
3.460		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 4S: E-400 PERV



Hydrograph for Subcatchment 4S: E-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	0.34	0.00
1.00	0.06	0.00	0.00	52.00	6.20	0.34	0.00
2.00	0.12	0.00	0.00	53.00	6.20	0.34	0.00
3.00	0.19	0.00	0.00	54.00	6.20	0.34	0.00
4.00	0.27	0.00	0.00	55.00	6.20	0.34	0.00
5.00	0.35	0.00	0.00	56.00	6.20	0.34	0.00
6.00	0.45	0.00	0.00	57.00	6.20	0.34	0.00
7.00	0.56	0.00	0.00	58.00	6.20	0.34	0.00
8.00	0.71	0.00	0.00	59.00	6.20	0.34	0.00
9.00	0.90	0.00	0.00	60.00	6.20	0.34	0.00
10.00	1.17	0.00	0.00	61.00	6.20	0.34	0.00
11.00	1.55	0.00	0.00	62.00	6.20	0.34	0.00
12.00	3.10	0.00	0.00	63.00	6.20	0.34	0.00
13.00	4.65	0.06	0.21	64.00	6.20	0.34	0.00
14.00	5.03	0.11	0.17	65.00	6.20	0.34	0.00
15.00	5.30	0.16	0.15	66.00	6.20	0.34	0.00
16.00	5.49	0.19	0.12	67.00	6.20	0.34	0.00
17.00	5.64	0.22	0.10	68.00	6.20	0.34	0.00
18.00	5.75	0.24	0.08	69.00	6.20	0.34	0.00
19.00	5.85	0.26	0.07	70.00	6.20	0.34	0.00
20.00	5.93	0.28	0.06	71.00	6.20	0.34	0.00
21.00	6.01	0.30	0.06	72.00	6.20	0.34	0.00
22.00	6.08	0.31	0.06	73.00	6.20	0.34	0.00
23.00	6.14	0.35	0.05	74.00	6.20	0.34	0.00
24.00	6.20	0.34	0.05	75.00	6.20	0.34	0.00
25.00	6.20	0.34	0.00	76.00	6.20	0.34	0.00
26.00	6.20	0.34	0.00	77.00	6.20	0.34	0.00
27.00	6.20	0.34	0.00	78.00	6.20	0.34	0.00
28.00	6.20	0.34	0.00	79.00	6.20	0.34	0.00
29.00	6.20	0.34	0.00	80.00	6.20	0.34	0.00
30.00	6.20	0.34	0.00	81.00	6.20	0.34	0.00
31.00	6.20	0.34	0.00	82.00	6.20	0.34	0.00
32.00	6.20	0.34	0.00	83.00	6.20	0.34	0.00
33.00	6.20	0.34	0.00	84.00	6.20	0.34	0.00
34.00	6.20	0.34	0.00	85.00	6.20	0.34	0.00
35.00	6.20	0.34	0.00	86.00	6.20	0.34	0.00
36.00	6.20	0.34	0.00	87.00	6.20	0.34	0.00
37.00	6.20	0.34	0.00	88.00	6.20	0.34	0.00
38.00	6.20	0.34	0.00	89.00	6.20	0.34	0.00
39.00	6.20	0.34	0.00	90.00	6.20	0.34	0.00
40.00	6.20	0.34	0.00	91.00	6.20	0.34	0.00
41.00	6.20	0.34	0.00	92.00	6.20	0.34	0.00
42.00	6.20	0.34	0.00	93.00	6.20	0.34	0.00
43.00	6.20	0.34	0.00	94.00	6.20	0.34	0.00
44.00	6.20	0.34	0.00	95.00	6.20	0.34	0.00
45.00	6.20	0.34	0.00	96.00	6.20	0.34	0.00
46.00	6.20	0.34	0.00	97.00	6.20	0.34	0.00
47.00	6.20	0.34	0.00	98.00	6.20	0.34	0.00
48.00	6.20	0.34	0.00	99.00	6.20	0.34	0.00
49.00	6.20	0.34	0.00	100.00	6.20	0.34	0.00
50.00	6.20	0.34	0.00				

Summary for Subcatchment 45S: P-100 PERV

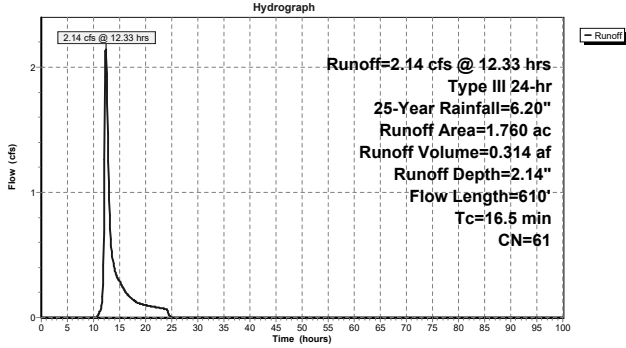
Runoff = 2.14 cfs @ 12.33 hrs, Volume= 0.314 af, Depth= 2.14"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
0.130	55	Woods, Good, HSG B
1.630	61	>75% Grass cover, Good, HSG B
1.760	61	Weighted Average
1.760		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 45S: P-100 PERV



Hydrograph for Subcatchment 45S: P-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	2.14	0.00
1.00	0.06	0.00	0.00	52.00	6.20	2.14	0.00
2.00	0.12	0.00	0.00	53.00	6.20	2.14	0.00
3.00	0.19	0.00	0.00	54.00	6.20	2.14	0.00
4.00	0.27	0.00	0.00	55.00	6.20	2.14	0.00
5.00	0.35	0.00	0.00	56.00	6.20	2.14	0.00
6.00	0.45	0.00	0.00	57.00	6.20	2.14	0.00
7.00	0.56	0.00	0.00	58.00	6.20	2.14	0.00
8.00	0.71	0.00	0.00	59.00	6.20	2.14	0.00
9.00	0.90	0.00	0.00	60.00	6.20	2.14	0.00
10.00	1.17	0.00	0.00	61.00	6.20	2.14	0.00
11.00	1.55	0.01	0.03	62.00	6.20	2.14	0.00
12.00	3.10	0.40	0.68	63.00	6.20	2.14	0.00
13.00	4.65	1.16	0.94	64.00	6.20	2.14	0.00
14.00	5.03	1.39	0.39	65.00	6.20	2.14	0.00
15.00	5.30	1.55	0.29	66.00	6.20	2.14	0.00
16.00	5.49	1.67	0.21	67.00	6.20	2.14	0.00
17.00	5.64	1.77	0.16	68.00	6.20	2.14	0.00
18.00	5.75	1.84	0.13	69.00	6.20	2.14	0.00
19.00	5.85	1.90	0.11	70.00	6.20	2.14	0.00
20.00	5.93	1.96	0.10	71.00	6.20	2.14	0.00
21.00	6.01	2.01	0.09	72.00	6.20	2.14	0.00
22.00	6.08	2.06	0.08	73.00	6.20	2.14	0.00
23.00	6.14	2.10	0.08	74.00	6.20	2.14	0.00
24.00	6.20	2.14	0.07	75.00	6.20	2.14	0.00
25.00	6.20	2.14	0.00	76.00	6.20	2.14	0.00
26.00	6.20	2.14	0.00	77.00	6.20	2.14	0.00
27.00	6.20	2.14	0.00	78.00	6.20	2.14	0.00
28.00	6.20	2.14	0.00	79.00	6.20	2.14	0.00
29.00	6.20	2.14	0.00	80.00	6.20	2.14	0.00
30.00	6.20	2.14	0.00	81.00	6.20	2.14	0.00
31.00	6.20	2.14	0.00	82.00	6.20	2.14	0.00
32.00	6.20	2.14	0.00	83.00	6.20	2.14	0.00
33.00	6.20	2.14	0.00	84.00	6.20	2.14	0.00
34.00	6.20	2.14	0.00	85.00	6.20	2.14	0.00
35.00	6.20	2.14	0.00	86.00	6.20	2.14	0.00
36.00	6.20	2.14	0.00	87.00	6.20	2.14	0.00
37.00	6.20	2.14	0.00	88.00	6.20	2.14	0.00
38.00	6.20	2.14	0.00	89.00	6.20	2.14	0.00
39.00	6.20	2.14	0.00	90.00	6.20	2.14	0.00
40.00	6.20	2.14	0.00	91.00	6.20	2.14	0.00
41.00	6.20	2.14	0.00	92.00	6.20	2.14	0.00
42.00	6.20	2.14	0.00	93.00	6.20	2.14	0.00
43.00	6.20	2.14	0.00	94.00	6.20	2.14	0.00
44.00	6.20	2.14	0.00	95.00	6.20	2.14	0.00
45.00	6.20	2.14	0.00	96.00	6.20	2.14	0.00
46.00	6.20	2.14	0.00	97.00	6.20	2.14	0.00
47.00	6.20	2.14	0.00	98.00	6.20	2.14	0.00
48.00	6.20	2.14	0.00	99.00	6.20	2.14	0.00
49.00	6.20	2.14	0.00	100.00	6.20	2.14	0.00
50.00	6.20	2.14	0.00				

Summary for Subcatchment 46S: P-200 PERV

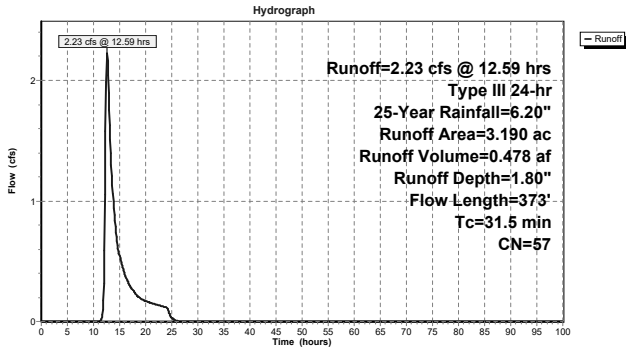
Runoff = 2.23 cfs @ 12.59 hrs, Volume= 0.478 af, Depth= 1.80"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
2.070	55	Woods, Good, HSG B
0.000	30	Woods, Good, HSG A
1.110	61	>75% Grass cover, Good, HSG B
0.010	39	>75% Grass cover, Good, HSG A
3.190	57	Weighted Average
3.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 46S: P-200 PERV



Hydrograph for Subcatchment 46S: P-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	1.80	0.00
1.00	0.06	0.00	0.00	52.00	6.20	1.80	0.00
2.00	0.12	0.00	0.00	53.00	6.20	1.80	0.00
3.00	0.19	0.00	0.00	54.00	6.20	1.80	0.00
4.00	0.27	0.00	0.00	55.00	6.20	1.80	0.00
5.00	0.35	0.00	0.00	56.00	6.20	1.80	0.00
6.00	0.45	0.00	0.00	57.00	6.20	1.80	0.00
7.00	0.56	0.00	0.00	58.00	6.20	1.80	0.00
8.00	0.71	0.00	0.00	59.00	6.20	1.80	0.00
9.00	0.90	0.00	0.00	60.00	6.20	1.80	0.00
10.00	1.17	0.00	0.00	61.00	6.20	1.80	0.00
11.00	1.55	0.00	0.00	62.00	6.20	1.80	0.00
12.00	3.10	0.28	0.31	63.00	6.20	1.80	0.00
13.00	4.65	0.92	1.76	64.00	6.20	1.80	0.00
14.00	5.03	1.12	0.89	65.00	6.20	1.80	0.00
15.00	5.30	1.27	0.54	66.00	6.20	1.80	0.00
16.00	5.49	1.38	0.39	67.00	6.20	1.80	0.00
17.00	5.64	1.46	0.30	68.00	6.20	1.80	0.00
18.00	5.75	1.53	0.23	69.00	6.20	1.80	0.00
19.00	5.85	1.58	0.19	70.00	6.20	1.80	0.00
20.00	5.93	1.64	0.17	71.00	6.20	1.80	0.00
21.00	6.01	1.68	0.15	72.00	6.20	1.80	0.00
22.00	6.08	1.73	0.14	73.00	6.20	1.80	0.00
23.00	6.14	1.76	0.13	74.00	6.20	1.80	0.00
24.00	6.20	1.80	0.12	75.00	6.20	1.80	0.00
25.00	6.20	1.80	0.03	76.00	6.20	1.80	0.00
26.00	6.20	1.80	0.00	77.00	6.20	1.80	0.00
27.00	6.20	1.80	0.00	78.00	6.20	1.80	0.00
28.00	6.20	1.80	0.00	79.00	6.20	1.80	0.00
29.00	6.20	1.80	0.00	80.00	6.20	1.80	0.00
30.00	6.20	1.80	0.00	81.00	6.20	1.80	0.00
31.00	6.20	1.80	0.00	82.00	6.20	1.80	0.00
32.00	6.20	1.80	0.00	83.00	6.20	1.80	0.00
33.00	6.20	1.80	0.00	84.00	6.20	1.80	0.00
34.00	6.20	1.80	0.00	85.00	6.20	1.80	0.00
35.00	6.20	1.80	0.00	86.00	6.20	1.80	0.00
36.00	6.20	1.80	0.00	87.00	6.20	1.80	0.00
37.00	6.20	1.80	0.00	88.00	6.20	1.80	0.00
38.00	6.20	1.80	0.00	89.00	6.20	1.80	0.00
39.00	6.20	1.80	0.00	90.00	6.20	1.80	0.00
40.00	6.20	1.80	0.00	91.00	6.20	1.80	0.00
41.00	6.20	1.80	0.00	92.00	6.20	1.80	0.00
42.00	6.20	1.80	0.00	93.00	6.20	1.80	0.00
43.00	6.20	1.80	0.00	94.00	6.20	1.80	0.00
44.00	6.20	1.80	0.00	95.00	6.20	1.80	0.00
45.00	6.20	1.80	0.00	96.00	6.20	1.80	0.00
46.00	6.20	1.80	0.00	97.00	6.20	1.80	0.00
47.00	6.20	1.80	0.00	98.00	6.20	1.80	0.00
48.00	6.20	1.80	0.00	99.00	6.20	1.80	0.00
49.00	6.20	1.80	0.00	100.00	6.20	1.80	0.00
50.00	6.20	1.80	0.00				

Summary for Subcatchment 47S: P-300 PERV

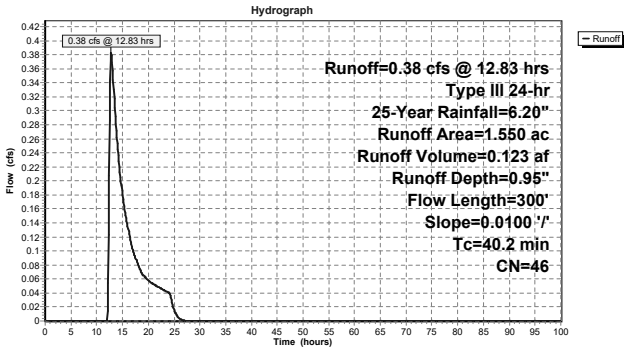
Runoff = 0.38 cfs @ 12.83 hrs, Volume= 0.123 af, Depth= 0.95"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	>75% Grass cover, Good, HSG B
0.900	39	>75% Grass cover, Good, HSG A
1.550	46	Weighted Average
1.550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 47S: P-300 PERV



Hydrograph for Subcatchment 47S: P-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	0.95	0.00
1.00	0.06	0.00	0.00	52.00	6.20	0.95	0.00
2.00	0.12	0.00	0.00	53.00	6.20	0.95	0.00
3.00	0.19	0.00	0.00	54.00	6.20	0.95	0.00
4.00	0.27	0.00	0.00	55.00	6.20	0.95	0.00
5.00	0.35	0.00	0.00	56.00	6.20	0.95	0.00
6.00	0.45	0.00	0.00	57.00	6.20	0.95	0.00
7.00	0.56	0.00	0.00	58.00	6.20	0.95	0.00
8.00	0.71	0.00	0.00	59.00	6.20	0.95	0.00
9.00	0.90	0.00	0.00	60.00	6.20	0.95	0.00
10.00	1.17	0.00	0.00	61.00	6.20	0.95	0.00
11.00	1.55	0.00	0.00	62.00	6.20	0.95	0.00
12.00	3.10	0.05	0.00	63.00	6.20	0.95	0.00
13.00	4.65	0.38	0.37	64.00	6.20	0.95	0.00
14.00	5.03	0.50	0.25	65.00	6.20	0.95	0.00
15.00	5.30	0.59	0.18	66.00	6.20	0.95	0.00
16.00	5.49	0.66	0.14	67.00	6.20	0.95	0.00
17.00	5.64	0.72	0.10	68.00	6.20	0.95	0.00
18.00	5.75	0.77	0.08	69.00	6.20	0.95	0.00
19.00	5.85	0.80	0.07	70.00	6.20	0.95	0.00
20.00	5.93	0.84	0.06	71.00	6.20	0.95	0.00
21.00	6.01	0.87	0.05	72.00	6.20	0.95	0.00
22.00	6.08	0.90	0.05	73.00	6.20	0.95	0.00
23.00	6.14	0.93	0.04	74.00	6.20	0.95	0.00
24.00	6.20	0.95	0.04	75.00	6.20	0.95	0.00
25.00	6.20	0.95	0.02	76.00	6.20	0.95	0.00
26.00	6.20	0.95	0.00	77.00	6.20	0.95	0.00
27.00	6.20	0.95	0.00	78.00	6.20	0.95	0.00
28.00	6.20	0.95	0.00	79.00	6.20	0.95	0.00
29.00	6.20	0.95	0.00	80.00	6.20	0.95	0.00
30.00	6.20	0.95	0.00	81.00	6.20	0.95	0.00
31.00	6.20	0.95	0.00	82.00	6.20	0.95	0.00
32.00	6.20	0.95	0.00	83.00	6.20	0.95	0.00
33.00	6.20	0.95	0.00	84.00	6.20	0.95	0.00
34.00	6.20	0.95	0.00	85.00	6.20	0.95	0.00
35.00	6.20	0.95	0.00	86.00	6.20	0.95	0.00
36.00	6.20	0.95	0.00	87.00	6.20	0.95	0.00
37.00	6.20	0.95	0.00	88.00	6.20	0.95	0.00
38.00	6.20	0.95	0.00	89.00	6.20	0.95	0.00
39.00	6.20	0.95	0.00	90.00	6.20	0.95	0.00
40.00	6.20	0.95	0.00	91.00	6.20	0.95	0.00
41.00	6.20	0.95	0.00	92.00	6.20	0.95	0.00
42.00	6.20	0.95	0.00	93.00	6.20	0.95	0.00
43.00	6.20	0.95	0.00	94.00	6.20	0.95	0.00
44.00	6.20	0.95	0.00	95.00	6.20	0.95	0.00
45.00	6.20	0.95	0.00	96.00	6.20	0.95	0.00
46.00	6.20	0.95	0.00	97.00	6.20	0.95	0.00
47.00	6.20	0.95	0.00	98.00	6.20	0.95	0.00
48.00	6.20	0.95	0.00	99.00	6.20	0.95	0.00
49.00	6.20	0.95	0.00	100.00	6.20	0.95	0.00
50.00	6.20	0.95	0.00				

Summary for Subcatchment 48S: P-400 PERV

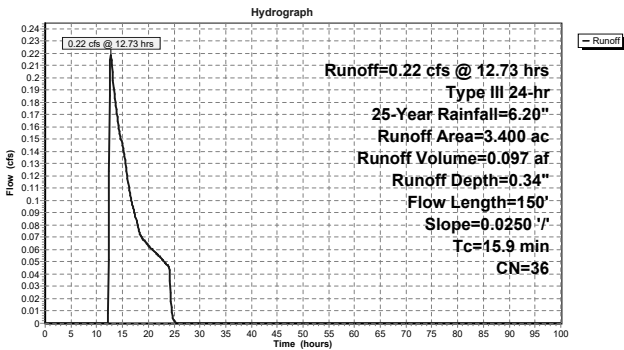
Runoff = 0.22 cfs @ 12.73 hrs, Volume= 0.097 af, Depth= 0.34"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.920	39	>75% Grass cover, Good, HSG A
3.400	36	Weighted Average
3.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 48S: P-400 PERV



Hydrograph for Subcatchment 48S: P-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	0.34	0.00
1.00	0.06	0.00	0.00	52.00	6.20	0.34	0.00
2.00	0.12	0.00	0.00	53.00	6.20	0.34	0.00
3.00	0.19	0.00	0.00	54.00	6.20	0.34	0.00
4.00	0.27	0.00	0.00	55.00	6.20	0.34	0.00
5.00	0.35	0.00	0.00	56.00	6.20	0.34	0.00
6.00	0.45	0.00	0.00	57.00	6.20	0.34	0.00
7.00	0.56	0.00	0.00	58.00	6.20	0.34	0.00
8.00	0.71	0.00	0.00	59.00	6.20	0.34	0.00
9.00	0.90	0.00	0.00	60.00	6.20	0.34	0.00
10.00	1.17	0.00	0.00	61.00	6.20	0.34	0.00
11.00	1.55	0.00	0.00	62.00	6.20	0.34	0.00
12.00	3.10	0.00	0.00	63.00	6.20	0.34	0.00
13.00	4.65	0.06	0.21	64.00	6.20	0.34	0.00
14.00	5.03	0.11	0.17	65.00	6.20	0.34	0.00
15.00	5.30	0.16	0.14	66.00	6.20	0.34	0.00
16.00	5.49	0.19	0.12	67.00	6.20	0.34	0.00
17.00	5.64	0.22	0.10	68.00	6.20	0.34	0.00
18.00	5.75	0.24	0.08	69.00	6.20	0.34	0.00
19.00	5.85	0.26	0.07	70.00	6.20	0.34	0.00
20.00	5.93	0.28	0.06	71.00	6.20	0.34	0.00
21.00	6.01	0.30	0.06	72.00	6.20	0.34	0.00
22.00	6.08	0.31	0.06	73.00	6.20	0.34	0.00
23.00	6.14	0.33	0.05	74.00	6.20	0.34	0.00
24.00	6.20	0.34	0.05	75.00	6.20	0.34	0.00
25.00	6.20	0.34	0.00	76.00	6.20	0.34	0.00
26.00	6.20	0.34	0.00	77.00	6.20	0.34	0.00
27.00	6.20	0.34	0.00	78.00	6.20	0.34	0.00
28.00	6.20	0.34	0.00	79.00	6.20	0.34	0.00
29.00	6.20	0.34	0.00	80.00	6.20	0.34	0.00
30.00	6.20	0.34	0.00	81.00	6.20	0.34	0.00
31.00	6.20	0.34	0.00	82.00	6.20	0.34	0.00
32.00	6.20	0.34	0.00	83.00	6.20	0.34	0.00
33.00	6.20	0.34	0.00	84.00	6.20	0.34	0.00
34.00	6.20	0.34	0.00	85.00	6.20	0.34	0.00
35.00	6.20	0.34	0.00	86.00	6.20	0.34	0.00
36.00	6.20	0.34	0.00	87.00	6.20	0.34	0.00
37.00	6.20	0.34	0.00	88.00	6.20	0.34	0.00
38.00	6.20	0.34	0.00	89.00	6.20	0.34	0.00
39.00	6.20	0.34	0.00	90.00	6.20	0.34	0.00
40.00	6.20	0.34	0.00	91.00	6.20	0.34	0.00
41.00	6.20	0.34	0.00	92.00	6.20	0.34	0.00
42.00	6.20	0.34	0.00	93.00	6.20	0.34	0.00
43.00	6.20	0.34	0.00	94.00	6.20	0.34	0.00
44.00	6.20	0.34	0.00	95.00	6.20	0.34	0.00
45.00	6.20	0.34	0.00	96.00	6.20	0.34	0.00
46.00	6.20	0.34	0.00	97.00	6.20	0.34	0.00
47.00	6.20	0.34	0.00	98.00	6.20	0.34	0.00
48.00	6.20	0.34	0.00	99.00	6.20	0.34	0.00
49.00	6.20	0.34	0.00	100.00	6.20	0.34	0.00
50.00	6.20	0.34	0.00				

Summary for Subcatchment 49S: P-100 IMP

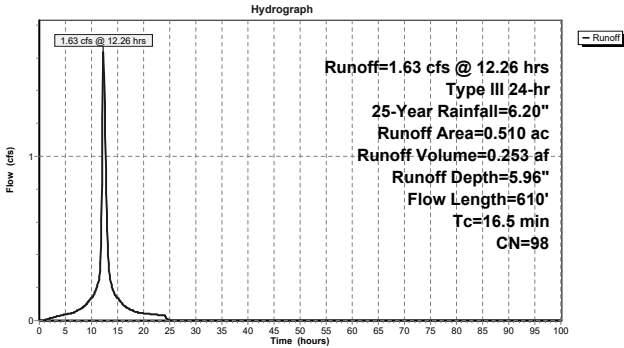
Runoff = 1.63 cfs @ 12.26 hrs, Volume= 0.253 af, Depth= 5.96"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
* 0.510	98	Unconnected pavement
0.510		100.00% Impervious Area
0.510		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 49S: P-100 IMP



Hydrograph for Subcatchment 49S: P-100 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	5.96	0.00
1.00	0.06	0.00	0.00	52.00	6.20	5.96	0.00
2.00	0.12	0.02	0.01	53.00	6.20	5.96	0.00
3.00	0.19	0.06	0.02	54.00	6.20	5.96	0.00
4.00	0.27	0.12	0.03	55.00	6.20	5.96	0.00
5.00	0.35	0.19	0.04	56.00	6.20	5.96	0.00
6.00	0.45	0.27	0.04	57.00	6.20	5.96	0.00
7.00	0.56	0.37	0.05	58.00	6.20	5.96	0.00
8.00	0.71	0.51	0.07	59.00	6.20	5.96	0.00
9.00	0.90	0.70	0.10	60.00	6.20	5.96	0.00
10.00	1.17	0.96	0.14	61.00	6.20	5.96	0.00
11.00	1.55	1.33	0.20	62.00	6.20	5.96	0.00
12.00	3.10	2.87	0.83	63.00	6.20	5.96	0.00
13.00	4.65	4.41	0.55	64.00	6.20	5.96	0.00
14.00	5.03	4.79	0.19	65.00	6.20	5.96	0.00
15.00	5.30	5.06	0.14	66.00	6.20	5.96	0.00
16.00	5.49	5.26	0.10	67.00	6.20	5.96	0.00
17.00	5.64	5.40	0.07	68.00	6.20	5.96	0.00
18.00	5.75	5.52	0.06	69.00	6.20	5.96	0.00
19.00	5.85	5.61	0.05	70.00	6.20	5.96	0.00
20.00	5.93	5.70	0.04	71.00	6.20	5.96	0.00
21.00	6.01	5.77	0.04	72.00	6.20	5.96	0.00
22.00	6.08	5.84	0.04	73.00	6.20	5.96	0.00
23.00	6.14	5.91	0.03	74.00	6.20	5.96	0.00
24.00	6.20	5.96	0.03	75.00	6.20	5.96	0.00
25.00	6.20	5.96	0.00	76.00	6.20	5.96	0.00
26.00	6.20	5.96	0.00	77.00	6.20	5.96	0.00
27.00	6.20	5.96	0.00	78.00	6.20	5.96	0.00
28.00	6.20	5.96	0.00	79.00	6.20	5.96	0.00
29.00	6.20	5.96	0.00	80.00	6.20	5.96	0.00
30.00	6.20	5.96	0.00	81.00	6.20	5.96	0.00
31.00	6.20	5.96	0.00	82.00	6.20	5.96	0.00
32.00	6.20	5.96	0.00	83.00	6.20	5.96	0.00
33.00	6.20	5.96	0.00	84.00	6.20	5.96	0.00
34.00	6.20	5.96	0.00	85.00	6.20	5.96	0.00
35.00	6.20	5.96	0.00	86.00	6.20	5.96	0.00
36.00	6.20	5.96	0.00	87.00	6.20	5.96	0.00
37.00	6.20	5.96	0.00	88.00	6.20	5.96	0.00
38.00	6.20	5.96	0.00	89.00	6.20	5.96	0.00
39.00	6.20	5.96	0.00	90.00	6.20	5.96	0.00
40.00	6.20	5.96	0.00	91.00	6.20	5.96	0.00
41.00	6.20	5.96	0.00	92.00	6.20	5.96	0.00
42.00	6.20	5.96	0.00	93.00	6.20	5.96	0.00
43.00	6.20	5.96	0.00	94.00	6.20	5.96	0.00
44.00	6.20	5.96	0.00	95.00	6.20	5.96	0.00
45.00	6.20	5.96	0.00	96.00	6.20	5.96	0.00
46.00	6.20	5.96	0.00	97.00	6.20	5.96	0.00
47.00	6.20	5.96	0.00	98.00	6.20	5.96	0.00
48.00	6.20	5.96	0.00	99.00	6.20	5.96	0.00
49.00	6.20	5.96	0.00	100.00	6.20	5.96	0.00
50.00	6.20	5.96	0.00				

Summary for Subcatchment 50S: P-200 IMP

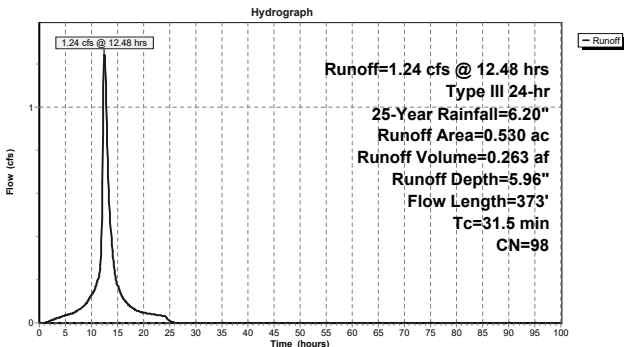
Runoff = 1.24 cfs @ 12.48 hrs, Volume= 0.263 af, Depth= 5.96"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
* 0.530	98	Unconnected pavement
0.530		100.00% Impervious Area
0.530		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 50S: P-200 IMP



Hydrograph for Subcatchment 50S: P-200 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	5.96	0.00
1.00	0.06	0.00	0.00	52.00	6.20	5.96	0.00
2.00	0.12	0.02	0.01	53.00	6.20	5.96	0.00
3.00	0.19	0.06	0.02	54.00	6.20	5.96	0.00
4.00	0.27	0.12	0.03	55.00	6.20	5.96	0.00
5.00	0.35	0.19	0.03	56.00	6.20	5.96	0.00
6.00	0.45	0.27	0.04	57.00	6.20	5.96	0.00
7.00	0.56	0.37	0.05	58.00	6.20	5.96	0.00
8.00	0.71	0.51	0.07	59.00	6.20	5.96	0.00
9.00	0.90	0.70	0.09	60.00	6.20	5.96	0.00
10.00	1.17	0.96	0.13	61.00	6.20	5.96	0.00
11.00	1.55	1.33	0.18	62.00	6.20	5.96	0.00
12.00	3.10	2.87	0.48	63.00	6.20	5.96	0.00
13.00	4.65	4.41	0.83	64.00	6.20	5.96	0.00
14.00	5.03	4.79	0.33	65.00	6.20	5.96	0.00
15.00	5.30	5.06	0.17	66.00	6.20	5.96	0.00
16.00	5.49	5.26	0.12	67.00	6.20	5.96	0.00
17.00	5.64	5.40	0.09	68.00	6.20	5.96	0.00
18.00	5.75	5.52	0.07	69.00	6.20	5.96	0.00
19.00	5.85	5.61	0.05	70.00	6.20	5.96	0.00
20.00	5.93	5.70	0.05	71.00	6.20	5.96	0.00
21.00	6.01	5.77	0.04	72.00	6.20	5.96	0.00
22.00	6.08	5.84	0.04	73.00	6.20	5.96	0.00
23.00	6.14	5.91	0.03	74.00	6.20	5.96	0.00
24.00	6.20	5.96	0.03	75.00	6.20	5.96	0.00
25.00	6.20	5.96	0.01	76.00	6.20	5.96	0.00
26.00	6.20	5.96	0.00	77.00	6.20	5.96	0.00
27.00	6.20	5.96	0.00	78.00	6.20	5.96	0.00
28.00	6.20	5.96	0.00	79.00	6.20	5.96	0.00
29.00	6.20	5.96	0.00	80.00	6.20	5.96	0.00
30.00	6.20	5.96	0.00	81.00	6.20	5.96	0.00
31.00	6.20	5.96	0.00	82.00	6.20	5.96	0.00
32.00	6.20	5.96	0.00	83.00	6.20	5.96	0.00
33.00	6.20	5.96	0.00	84.00	6.20	5.96	0.00
34.00	6.20	5.96	0.00	85.00	6.20	5.96	0.00
35.00	6.20	5.96	0.00	86.00	6.20	5.96	0.00
36.00	6.20	5.96	0.00	87.00	6.20	5.96	0.00
37.00	6.20	5.96	0.00	88.00	6.20	5.96	0.00
38.00	6.20	5.96	0.00	89.00	6.20	5.96	0.00
39.00	6.20	5.96	0.00	90.00	6.20	5.96	0.00
40.00	6.20	5.96	0.00	91.00	6.20	5.96	0.00
41.00	6.20	5.96	0.00	92.00	6.20	5.96	0.00
42.00	6.20	5.96	0.00	93.00	6.20	5.96	0.00
43.00	6.20	5.96	0.00	94.00	6.20	5.96	0.00
44.00	6.20	5.96	0.00	95.00	6.20	5.96	0.00
45.00	6.20	5.96	0.00	96.00	6.20	5.96	0.00
46.00	6.20	5.96	0.00	97.00	6.20	5.96	0.00
47.00	6.20	5.96	0.00	98.00	6.20	5.96	0.00
48.00	6.20	5.96	0.00	99.00	6.20	5.96	0.00
49.00	6.20	5.96	0.00	100.00	6.20	5.96	0.00
50.00	6.20	5.96	0.00				

Summary for Subcatchment 51S: P-300 IMP

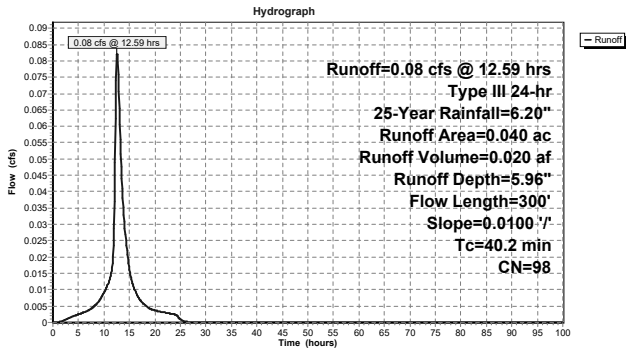
Runoff = 0.08 cfs @ 12.59 hrs, Volume= 0.020 af, Depth= 5.96"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
0.040	98	Unconnected pavement
0.040		100.00% Impervious Area
0.040		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 51S: P-300 IMP



Hydrograph for Subcatchment 51S: P-300 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	5.96	0.00
1.00	0.06	0.00	0.00	52.00	6.20	5.96	0.00
2.00	0.12	0.02	0.00	53.00	6.20	5.96	0.00
3.00	0.19	0.06	0.00	54.00	6.20	5.96	0.00
4.00	0.27	0.12	0.00	55.00	6.20	5.96	0.00
5.00	0.35	0.19	0.00	56.00	6.20	5.96	0.00
6.00	0.45	0.27	0.00	57.00	6.20	5.96	0.00
7.00	0.56	0.37	0.00	58.00	6.20	5.96	0.00
8.00	0.71	0.51	0.00	59.00	6.20	5.96	0.00
9.00	0.90	0.70	0.01	60.00	6.20	5.96	0.00
10.00	1.17	0.96	0.01	61.00	6.20	5.96	0.00
11.00	1.55	1.33	0.01	62.00	6.20	5.96	0.00
12.00	3.10	2.87	0.03	63.00	6.20	5.96	0.00
13.00	4.65	4.41	0.07	64.00	6.20	5.96	0.00
14.00	5.03	4.79	0.03	65.00	6.20	5.96	0.00
15.00	5.30	5.06	0.02	66.00	6.20	5.96	0.00
16.00	5.49	5.26	0.01	67.00	6.20	5.96	0.00
17.00	5.64	5.40	0.01	68.00	6.20	5.96	0.00
18.00	5.75	5.52	0.01	69.00	6.20	5.96	0.00
19.00	5.85	5.61	0.00	70.00	6.20	5.96	0.00
20.00	5.93	5.70	0.00	71.00	6.20	5.96	0.00
21.00	6.01	5.77	0.00	72.00	6.20	5.96	0.00
22.00	6.08	5.84	0.00	73.00	6.20	5.96	0.00
23.00	6.14	5.91	0.00	74.00	6.20	5.96	0.00
24.00	6.20	5.96	0.00	75.00	6.20	5.96	0.00
25.00	6.20	5.96	0.00	76.00	6.20	5.96	0.00
26.00	6.20	5.96	0.00	77.00	6.20	5.96	0.00
27.00	6.20	5.96	0.00	78.00	6.20	5.96	0.00
28.00	6.20	5.96	0.00	79.00	6.20	5.96	0.00
29.00	6.20	5.96	0.00	80.00	6.20	5.96	0.00
30.00	6.20	5.96	0.00	81.00	6.20	5.96	0.00
31.00	6.20	5.96	0.00	82.00	6.20	5.96	0.00
32.00	6.20	5.96	0.00	83.00	6.20	5.96	0.00
33.00	6.20	5.96	0.00	84.00	6.20	5.96	0.00
34.00	6.20	5.96	0.00	85.00	6.20	5.96	0.00
35.00	6.20	5.96	0.00	86.00	6.20	5.96	0.00
36.00	6.20	5.96	0.00	87.00	6.20	5.96	0.00
37.00	6.20	5.96	0.00	88.00	6.20	5.96	0.00
38.00	6.20	5.96	0.00	89.00	6.20	5.96	0.00
39.00	6.20	5.96	0.00	90.00	6.20	5.96	0.00
40.00	6.20	5.96	0.00	91.00	6.20	5.96	0.00
41.00	6.20	5.96	0.00	92.00	6.20	5.96	0.00
42.00	6.20	5.96	0.00	93.00	6.20	5.96	0.00
43.00	6.20	5.96	0.00	94.00	6.20	5.96	0.00
44.00	6.20	5.96	0.00	95.00	6.20	5.96	0.00
45.00	6.20	5.96	0.00	96.00	6.20	5.96	0.00
46.00	6.20	5.96	0.00	97.00	6.20	5.96	0.00
47.00	6.20	5.96	0.00	98.00	6.20	5.96	0.00
48.00	6.20	5.96	0.00	99.00	6.20	5.96	0.00
49.00	6.20	5.96	0.00	100.00	6.20	5.96	0.00
50.00	6.20	5.96	0.00				

Summary for Subcatchment 52S: P-400 IMP

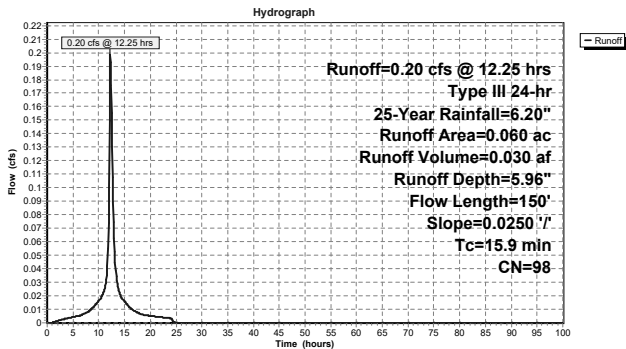
Runoff = 0.20 cfs @ 12.25 hrs, Volume= 0.030 af, Depth= 5.96"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 25-Year Rainfall=6.20"

Area (ac)	CN	Description
0.060	98	Unconnected pavement
0.060		100.00% Impervious Area
0.060		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 52S: P-400 IMP



Hydrograph for Subcatchment 52S: P-400 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	6.20	5.96	0.00
1.00	0.06	0.00	0.00	52.00	6.20	5.96	0.00
2.00	0.12	0.02	0.00	53.00	6.20	5.96	0.00
3.00	0.19	0.06	0.00	54.00	6.20	5.96	0.00
4.00	0.27	0.12	0.00	55.00	6.20	5.96	0.00
5.00	0.35	0.19	0.00	56.00	6.20	5.96	0.00
6.00	0.45	0.27	0.01	57.00	6.20	5.96	0.00
7.00	0.56	0.37	0.01	58.00	6.20	5.96	0.00
8.00	0.71	0.51	0.01	59.00	6.20	5.96	0.00
9.00	0.90	0.70	0.01	60.00	6.20	5.96	0.00
10.00	1.17	0.96	0.02	61.00	6.20	5.96	0.00
11.00	1.55	1.33	0.02	62.00	6.20	5.96	0.00
12.00	3.10	2.87	0.10	63.00	6.20	5.96	0.00
13.00	4.65	4.41	0.06	64.00	6.20	5.96	0.00
14.00	5.03	4.79	0.02	65.00	6.20	5.96	0.00
15.00	5.30	5.06	0.02	66.00	6.20	5.96	0.00
16.00	5.49	5.26	0.01	67.00	6.20	5.96	0.00
17.00	5.64	5.40	0.01	68.00	6.20	5.96	0.00
18.00	5.75	5.52	0.01	69.00	6.20	5.96	0.00
19.00	5.85	5.61	0.01	70.00	6.20	5.96	0.00
20.00	5.93	5.70	0.01	71.00	6.20	5.96	0.00
21.00	6.01	5.77	0.00	72.00	6.20	5.96	0.00
22.00	6.08	5.84	0.00	73.00	6.20	5.96	0.00
23.00	6.14	5.91	0.00	74.00	6.20	5.96	0.00
24.00	6.20	5.96	0.00	75.00	6.20	5.96	0.00
25.00	6.20	5.96	0.00	76.00	6.20	5.96	0.00
26.00	6.20	5.96	0.00	77.00	6.20	5.96	0.00
27.00	6.20	5.96	0.00	78.00	6.20	5.96	0.00
28.00	6.20	5.96	0.00	79.00	6.20	5.96	0.00
29.00	6.20	5.96	0.00	80.00	6.20	5.96	0.00
30.00	6.20	5.96	0.00	81.00	6.20	5.96	0.00
31.00	6.20	5.96	0.00	82.00	6.20	5.96	0.00
32.00	6.20	5.96	0.00	83.00	6.20	5.96	0.00
33.00	6.20	5.96	0.00	84.00	6.20	5.96	0.00
34.00	6.20	5.96	0.00	85.00	6.20	5.96	0.00
35.00	6.20	5.96	0.00	86.00	6.20	5.96	0.00
36.00	6.20	5.96	0.00	87.00	6.20	5.96	0.00
37.00	6.20	5.96	0.00	88.00	6.20	5.96	0.00
38.00	6.20	5.96	0.00	89.00	6.20	5.96	0.00
39.00	6.20	5.96	0.00	90.00	6.20	5.96	0.00
40.00	6.20	5.96	0.00	91.00	6.20	5.96	0.00
41.00	6.20	5.96	0.00	92.00	6.20	5.96	0.00
42.00	6.20	5.96	0.00	93.00	6.20	5.96	0.00
43.00	6.20	5.96	0.00	94.00	6.20	5.96	0.00
44.00	6.20	5.96	0.00	95.00	6.20	5.96	0.00
45.00	6.20	5.96	0.00	96.00	6.20	5.96	0.00
46.00	6.20	5.96	0.00	97.00	6.20	5.96	0.00
47.00	6.20	5.96	0.00	98.00	6.20	5.96	0.00
48.00	6.20	5.96	0.00	99.00	6.20	5.96	0.00
49.00	6.20	5.96	0.00	100.00	6.20	5.96	0.00
50.00	6.20	5.96	0.00				

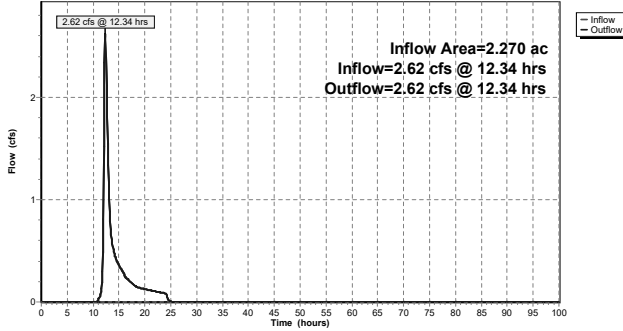
Summary for Reach 6R: E-100

Inflow Area = 2.270 ac, 0.00% Impervious, Inflow Depth = 2.05" for 25-Year event
 Inflow = 2.62 cfs @ 12.34 hrs, Volume= 0.388 af
 Outflow = 2.62 cfs @ 12.34 hrs, Volume= 0.388 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 6R: E-100

Hydrograph



Hydrograph for Reach 6R: E-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.02	0.02	0.02	62.00	0.00		0.00
12.00	0.81		0.81	63.00	0.00		0.00
13.00	1.16		1.16	64.00	0.00		0.00
14.00	0.49	0.49	0.49	65.00	0.00		0.00
15.00	0.36		0.36	66.00	0.00		0.00
16.00	0.27		0.27	67.00	0.00		0.00
17.00	0.21		0.21	68.00	0.00		0.00
18.00	0.16		0.16	69.00	0.00		0.00
19.00	0.14		0.14	70.00	0.00		0.00
20.00	0.13		0.13	71.00	0.00		0.00
21.00	0.11		0.11	72.00	0.00		0.00
22.00	0.10		0.10	73.00	0.00		0.00
23.00	0.09		0.09	74.00	0.00		0.00
24.00	0.08		0.08	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

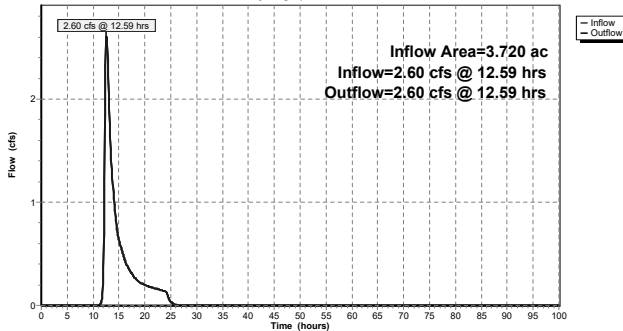
Summary for Reach 7R: E-200

Inflow Area = 3.720 ac, 0.00% Impervious, Inflow Depth = 1.80" for 25-Year event
 Inflow = 2.60 cfs @ 12.59 hrs, Volume= 0.558 af
 Outflow = 2.60 cfs @ 12.59 hrs, Volume= 0.558 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 7R: E-200

Hydrograph



Hydrograph for Reach 7R: E-200

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.37		0.37	63.00	0.00		0.00
13.00	2.05		2.05	64.00	0.00		0.00
14.00	1.03	1.03	1.03	65.00	0.00		0.00
15.00	0.64	0.64	0.64	66.00	0.00		0.00
16.00	0.46		0.46	67.00	0.00		0.00
17.00	0.35		0.35	68.00	0.00		0.00
18.00	0.27		0.27	69.00	0.00		0.00
19.00	0.22		0.22	70.00	0.00		0.00
20.00	0.20		0.20	71.00	0.00		0.00
21.00	0.18		0.18	72.00	0.00		0.00
22.00	0.17		0.17	73.00	0.00		0.00
23.00	0.15		0.15	74.00	0.00		0.00
24.00	0.13		0.13	75.00	0.00		0.00
25.00	0.04		0.04	76.00	0.00		0.00
26.00	0.01		0.01	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

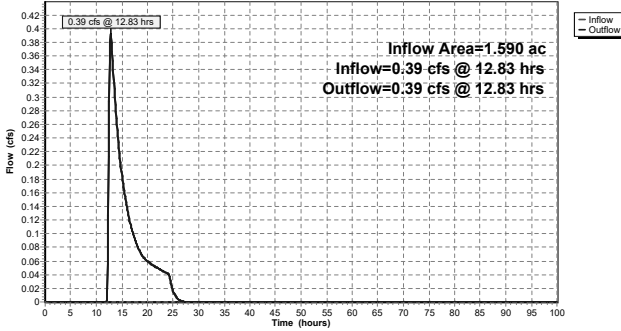
Summary for Reach 8R: E-300

Inflow Area = 1.590 ac, 0.00% Impervious, Inflow Depth = 0.95" for 25-Year event
 Inflow = 0.39 cfs @ 12.83 hrs, Volume= 0.126 af
 Outflow = 0.39 cfs @ 12.83 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 8R: E-300

Hydrograph



Hydrograph for Reach 8R: E-300

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.38		0.38	64.00	0.00		0.00
14.00	0.26		0.26	65.00	0.00		0.00
15.00	0.18		0.18	66.00	0.00		0.00
16.00	0.14		0.14	67.00	0.00		0.00
17.00	0.10		0.10	68.00	0.00		0.00
18.00	0.08		0.08	69.00	0.00		0.00
19.00	0.07		0.07	70.00	0.00		0.00
20.00	0.06		0.06	71.00	0.00		0.00
21.00	0.05		0.05	72.00	0.00		0.00
22.00	0.05		0.05	73.00	0.00		0.00
23.00	0.05		0.05	74.00	0.00		0.00
24.00	0.04		0.04	75.00	0.00		0.00
25.00	0.02		0.02	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

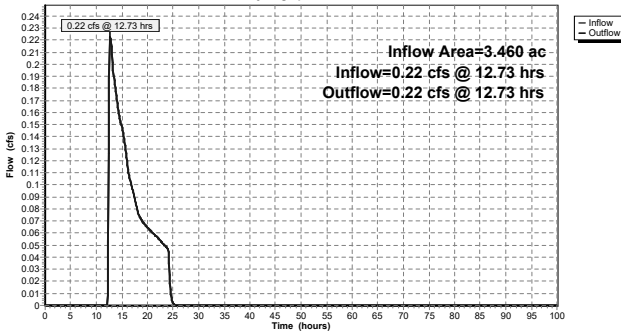
Summary for Reach 22R: E-400

Inflow Area = 3.460 ac, 0.00% Impervious, Inflow Depth = 0.34" for 25-Year event
 Inflow = 0.22 cfs @ 12.73 hrs, Volume= 0.099 af
 Outflow = 0.22 cfs @ 12.73 hrs, Volume= 0.099 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 22R: E-400

Hydrograph



Hydrograph for Reach 22R: E-400

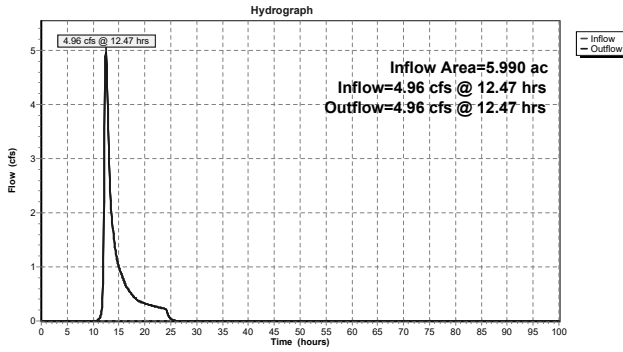
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.21		0.21	64.00	0.00		0.00
14.00	0.17		0.17	65.00	0.00		0.00
15.00	0.15		0.15	66.00	0.00		0.00
16.00	0.12		0.12	67.00	0.00		0.00
17.00	0.10		0.10	68.00	0.00		0.00
18.00	0.08		0.08	69.00	0.00		0.00
19.00	0.07		0.07	70.00	0.00		0.00
20.00	0.06		0.06	71.00	0.00		0.00
21.00	0.06		0.06	72.00	0.00		0.00
22.00	0.06		0.06	73.00	0.00		0.00
23.00	0.05		0.05	74.00	0.00		0.00
24.00	0.05		0.05	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 23R: E-POA "A"

Inflow Area = 5.990 ac, 0.00% Impervious, Inflow Depth = 1.90" for 25-Year event
 Inflow = 4.96 cfs @ 12.47 hrs, Volume= 0.946 af
 Outflow = 4.96 cfs @ 12.47 hrs, Volume= 0.946 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 23R: E-POA "A"



Hydrograph for Reach 23R: E-POA "A"

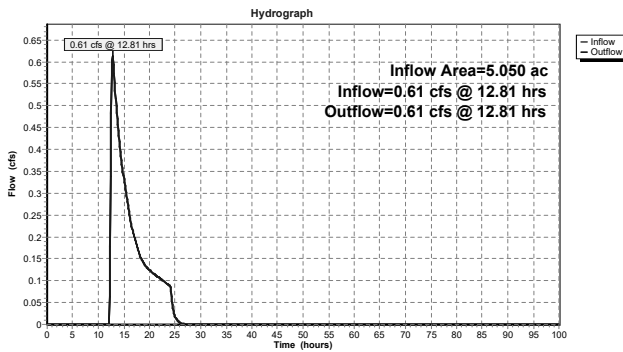
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.02	0.02	0.02	62.00	0.00	0.00	0.00
12.00	1.18	1.18	1.18	63.00	0.00	0.00	0.00
13.00	3.22	3.22	3.22	64.00	0.00	0.00	0.00
14.00	1.52	1.52	1.52	65.00	0.00	0.00	0.00
15.00	1.00	1.00	1.00	66.00	0.00	0.00	0.00
16.00	0.73	0.73	0.73	67.00	0.00	0.00	0.00
17.00	0.55	0.55	0.55	68.00	0.00	0.00	0.00
18.00	0.44	0.44	0.44	69.00	0.00	0.00	0.00
19.00	0.36	0.36	0.36	70.00	0.00	0.00	0.00
20.00	0.32	0.32	0.32	71.00	0.00	0.00	0.00
21.00	0.29	0.29	0.29	72.00	0.00	0.00	0.00
22.00	0.27	0.27	0.27	73.00	0.00	0.00	0.00
23.00	0.24	0.24	0.24	74.00	0.00	0.00	0.00
24.00	0.22	0.22	0.22	75.00	0.00	0.00	0.00
25.00	0.04	0.04	0.04	76.00	0.00	0.00	0.00
26.00	0.01	0.01	0.01	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 25R: E-POA "B"

Inflow Area = 5.050 ac, 0.00% Impervious, Inflow Depth = 0.53" for 25-Year event
 Inflow = 0.61 cfs @ 12.81 hrs, Volume= 0.225 af
 Outflow = 0.61 cfs @ 12.81 hrs, Volume= 0.225 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 25R: E-POA "B"



Hydrograph for Reach 25R: E-POA "B"

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
13.00	0.59	0.59	0.59	64.00	0.00	0.00	0.00
14.00	0.43	0.43	0.43	65.00	0.00	0.00	0.00
15.00	0.33	0.33	0.33	66.00	0.00	0.00	0.00
16.00	0.26	0.26	0.26	67.00	0.00	0.00	0.00
17.00	0.20	0.20	0.20	68.00	0.00	0.00	0.00
18.00	0.16	0.16	0.16	69.00	0.00	0.00	0.00
19.00	0.14	0.14	0.14	70.00	0.00	0.00	0.00
20.00	0.12	0.12	0.12	71.00	0.00	0.00	0.00
21.00	0.11	0.11	0.11	72.00	0.00	0.00	0.00
22.00	0.11	0.11	0.11	73.00	0.00	0.00	0.00
23.00	0.10	0.10	0.10	74.00	0.00	0.00	0.00
24.00	0.09	0.09	0.09	75.00	0.00	0.00	0.00
25.00	0.02	0.02	0.02	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

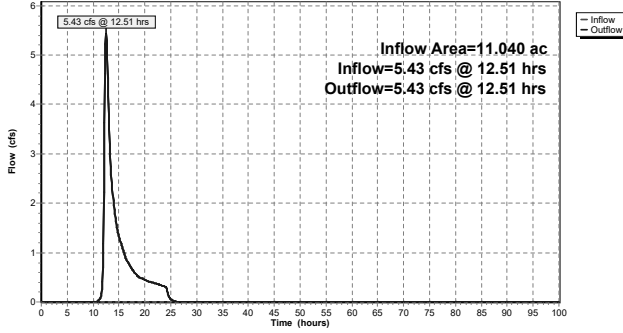
Summary for Reach 26R: E-POA

Inflow Area = 11.040 ac, 0.00% Impervious, Inflow Depth = 1.27" for 25-Year event
 Inflow = 5.43 cfs @ 12.51 hrs, Volume= 1.171 af
 Outflow = 5.43 cfs @ 12.51 hrs, Volume= 1.171 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 26R: E-POA

Hydrograph



Hydrograph for Reach 26R: E-POA

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.02	0.02	0.02	62.00	0.00	0.00	0.00
12.00	1.18	1.18	1.18	63.00	0.00	0.00	0.00
13.00	3.81	3.81	3.81	64.00	0.00	0.00	0.00
14.00	1.95	1.95	1.95	65.00	0.00	0.00	0.00
15.00	1.33	1.33	1.33	66.00	0.00	0.00	0.00
16.00	0.99	0.99	0.99	67.00	0.00	0.00	0.00
17.00	0.75	0.75	0.75	68.00	0.00	0.00	0.00
18.00	0.60	0.60	0.60	69.00	0.00	0.00	0.00
19.00	0.50	0.50	0.50	70.00	0.00	0.00	0.00
20.00	0.45	0.45	0.45	71.00	0.00	0.00	0.00
21.00	0.41	0.41	0.41	72.00	0.00	0.00	0.00
22.00	0.38	0.38	0.38	73.00	0.00	0.00	0.00
23.00	0.34	0.34	0.34	74.00	0.00	0.00	0.00
24.00	0.31	0.31	0.31	75.00	0.00	0.00	0.00
25.00	0.28	0.28	0.28	76.00	0.00	0.00	0.00
26.00	0.26	0.26	0.26	77.00	0.00	0.00	0.00
27.00	0.24	0.24	0.24	78.00	0.00	0.00	0.00
28.00	0.22	0.22	0.22	79.00	0.00	0.00	0.00
29.00	0.20	0.20	0.20	80.00	0.00	0.00	0.00
30.00	0.19	0.19	0.19	81.00	0.00	0.00	0.00
31.00	0.18	0.18	0.18	82.00	0.00	0.00	0.00
32.00	0.17	0.17	0.17	83.00	0.00	0.00	0.00
33.00	0.16	0.16	0.16	84.00	0.00	0.00	0.00
34.00	0.15	0.15	0.15	85.00	0.00	0.00	0.00
35.00	0.14	0.14	0.14	86.00	0.00	0.00	0.00
36.00	0.13	0.13	0.13	87.00	0.00	0.00	0.00
37.00	0.12	0.12	0.12	88.00	0.00	0.00	0.00
38.00	0.11	0.11	0.11	89.00	0.00	0.00	0.00
39.00	0.10	0.10	0.10	90.00	0.00	0.00	0.00
40.00	0.09	0.09	0.09	91.00	0.00	0.00	0.00
41.00	0.08	0.08	0.08	92.00	0.00	0.00	0.00
42.00	0.07	0.07	0.07	93.00	0.00	0.00	0.00
43.00	0.06	0.06	0.06	94.00	0.00	0.00	0.00
44.00	0.05	0.05	0.05	95.00	0.00	0.00	0.00
45.00	0.04	0.04	0.04	96.00	0.00	0.00	0.00
46.00	0.03	0.03	0.03	97.00	0.00	0.00	0.00
47.00	0.02	0.02	0.02	98.00	0.00	0.00	0.00
48.00	0.01	0.01	0.01	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

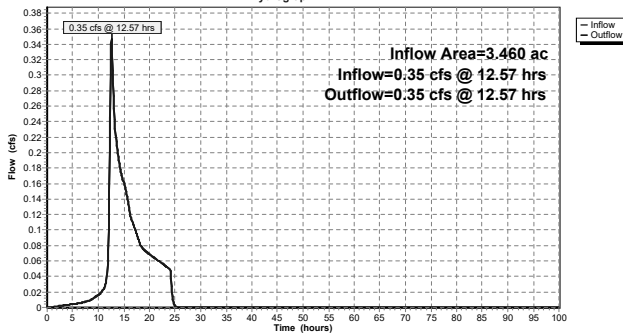
Summary for Reach 38R: P-400

Inflow Area = 3.460 ac, 1.73% Impervious, Inflow Depth = 0.44" for 25-Year event
 Inflow = 0.35 cfs @ 12.57 hrs, Volume= 0.127 af
 Outflow = 0.35 cfs @ 12.57 hrs, Volume= 0.127 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 38R: P-400

Hydrograph



Hydrograph for Reach 38R: P-400

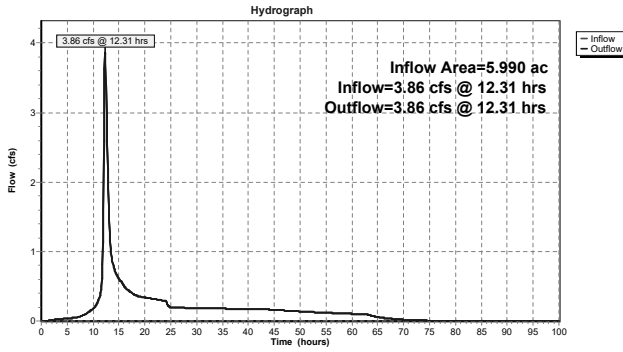
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.01	0.01	0.01	57.00	0.00	0.00	0.00
7.00	0.01	0.01	0.01	58.00	0.00	0.00	0.00
8.00	0.01	0.01	0.01	59.00	0.00	0.00	0.00
9.00	0.01	0.01	0.01	60.00	0.00	0.00	0.00
10.00	0.02	0.02	0.02	61.00	0.00	0.00	0.00
11.00	0.02	0.02	0.02	62.00	0.00	0.00	0.00
12.00	0.10	0.10	0.10	63.00	0.00	0.00	0.00
13.00	0.27	0.27	0.27	64.00	0.00	0.00	0.00
14.00	0.19	0.19	0.19	65.00	0.00	0.00	0.00
15.00	0.16	0.16	0.16	66.00	0.00	0.00	0.00
16.00	0.13	0.13	0.13	67.00	0.00	0.00	0.00
17.00	0.10	0.10	0.10	68.00	0.00	0.00	0.00
18.00	0.09	0.09	0.09	69.00	0.00	0.00	0.00
19.00	0.07	0.07	0.07	70.00	0.00	0.00	0.00
20.00	0.07	0.07	0.07	71.00	0.00	0.00	0.00
21.00	0.06	0.06	0.06	72.00	0.00	0.00	0.00
22.00	0.06	0.06	0.06	73.00	0.00	0.00	0.00
23.00	0.05	0.05	0.05	74.00	0.00	0.00	0.00
24.00	0.05	0.05	0.05	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 39R: P-POA "A"

Inflow Area = 5.990 ac, 17.36% Impervious, Inflow Depth = 2.59" for 25-Year event
 Inflow = 3.86 cfs @ 12.31 hrs, Volume= 1.294 af
 Outflow = 3.86 cfs @ 12.31 hrs, Volume= 1.294 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 39R: P-POA "A"



Hydrograph for Reach 39R: P-POA "A"

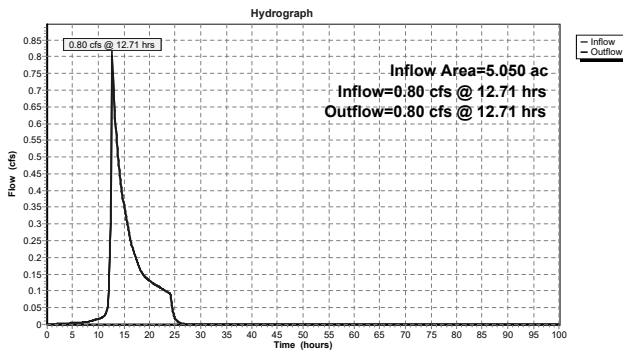
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.13		0.13
1.00	0.00		0.00	52.00	0.13		0.13
2.00	0.01		0.01	53.00	0.13		0.13
3.00	0.02		0.02	54.00	0.12		0.12
4.00	0.03		0.03	55.00	0.12		0.12
5.00	0.04		0.04	56.00	0.12		0.12
6.00	0.04		0.04	57.00	0.11		0.11
7.00	0.05		0.05	58.00	0.11		0.11
8.00	0.08		0.08	59.00	0.11		0.11
9.00	0.12		0.12	60.00	0.10		0.10
10.00	0.18		0.18	61.00	0.10		0.10
11.00	0.29		0.29	62.00	0.10		0.10
12.00	1.61		1.61	63.00	0.09		0.09
13.00	1.65		1.65	64.00	0.07		0.07
14.00	0.76		0.76	65.00	0.06		0.06
15.00	0.61		0.61	66.00	0.05		0.05
16.00	0.50		0.50	67.00	0.04		0.04
17.00	0.43		0.43	68.00	0.03		0.03
18.00	0.38		0.38	69.00	0.02		0.02
19.00	0.35		0.35	70.00	0.02		0.02
20.00	0.34		0.34	71.00	0.01		0.01
21.00	0.32		0.32	72.00	0.01		0.01
22.00	0.31		0.31	73.00	0.01		0.01
23.00	0.30		0.30	74.00	0.01		0.01
24.00	0.29		0.29	75.00	0.01		0.01
25.00	0.20		0.20	76.00	0.00		0.00
26.00	0.19		0.19	77.00	0.00		0.00
27.00	0.19		0.19	78.00	0.00		0.00
28.00	0.19		0.19	79.00	0.00		0.00
29.00	0.19		0.19	80.00	0.00		0.00
30.00	0.19		0.19	81.00	0.00		0.00
31.00	0.18		0.18	82.00	0.00		0.00
32.00	0.18		0.18	83.00	0.00		0.00
33.00	0.18		0.18	84.00	0.00		0.00
34.00	0.18		0.18	85.00	0.00		0.00
35.00	0.18		0.18	86.00	0.00		0.00
36.00	0.18		0.18	87.00	0.00		0.00
37.00	0.17		0.17	88.00	0.00		0.00
38.00	0.17		0.17	89.00	0.00		0.00
39.00	0.17		0.17	90.00	0.00		0.00
40.00	0.17		0.17	91.00	0.00		0.00
41.00	0.17		0.17	92.00	0.00		0.00
42.00	0.17		0.17	93.00	0.00		0.00
43.00	0.17		0.17	94.00	0.00		0.00
44.00	0.16		0.16	95.00	0.00		0.00
45.00	0.16		0.16	96.00	0.00		0.00
46.00	0.16		0.16	97.00	0.00		0.00
47.00	0.15		0.15	98.00	0.00		0.00
48.00	0.15		0.15	99.00	0.00		0.00
49.00	0.14		0.14	100.00	0.00		0.00
50.00	0.14		0.14				

Summary for Reach 40R: P-POA "B"

Inflow Area = 5.050 ac, 1.98% Impervious, Inflow Depth = 0.61" for 25-Year event
 Inflow = 0.80 cfs @ 12.71 hrs, Volume= 0.257 af
 Outflow = 0.80 cfs @ 12.71 hrs, Volume= 0.257 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 40R: P-POA "B"



Hydrograph for Reach 40R: P-POA "B"

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.01		0.01	57.00	0.00		0.00
7.00	0.01		0.01	58.00	0.00		0.00
8.00	0.01		0.01	59.00	0.00		0.00
9.00	0.01		0.01	60.00	0.00		0.00
10.00	0.02		0.02	61.00	0.00		0.00
11.00	0.02		0.02	62.00	0.00		0.00
12.00	0.10		0.10	63.00	0.00		0.00
13.00	0.70		0.70	64.00	0.00		0.00
14.00	0.47		0.47	65.00	0.00		0.00
15.00	0.36		0.36	66.00	0.00		0.00
16.00	0.27		0.27	67.00	0.00		0.00
17.00	0.21		0.21	68.00	0.00		0.00
18.00	0.17		0.17	69.00	0.00		0.00
19.00	0.14		0.14	70.00	0.00		0.00
20.00	0.13		0.13	71.00	0.00		0.00
21.00	0.12		0.12	72.00	0.00		0.00
22.00	0.11		0.11	73.00	0.00		0.00
23.00	0.10		0.10	74.00	0.00		0.00
24.00	0.09		0.09	75.00	0.00		0.00
25.00	0.02		0.02	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

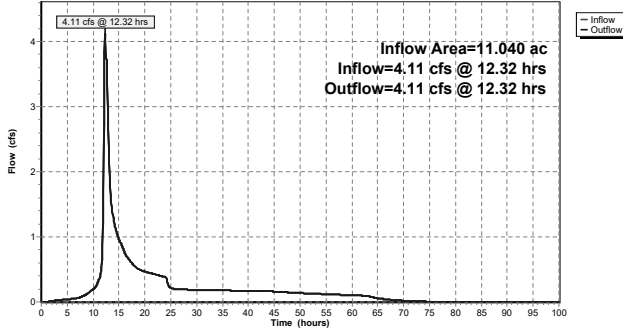
Summary for Reach 41R: P-POA

Inflow Area = 11.040 ac, 10.33% Impervious, Inflow Depth = 1.69" for 25-Year event
 Inflow = 4.11 cfs @ 12.32 hrs, Volume= 1.551 af
 Outflow = 4.11 cfs @ 12.32 hrs, Volume= 1.551 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 41R: P-POA

Hydrograph



Hydrograph for Reach 41R: P-POA

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.13	0.13	0.13
1.00	0.00	0.00	0.00	52.00	0.13	0.13	0.13
2.00	0.01	0.01	0.01	53.00	0.13	0.13	0.13
3.00	0.02	0.02	0.02	54.00	0.12	0.12	0.12
4.00	0.03	0.03	0.03	55.00	0.12	0.12	0.12
5.00	0.04	0.04	0.04	56.00	0.12	0.12	0.12
6.00	0.05	0.05	0.05	57.00	0.11	0.11	0.11
7.00	0.06	0.06	0.06	58.00	0.11	0.11	0.11
8.00	0.09	0.09	0.09	59.00	0.11	0.11	0.11
9.00	0.14	0.14	0.14	60.00	0.10	0.10	0.10
10.00	0.19	0.19	0.19	61.00	0.10	0.10	0.10
11.00	0.31	0.31	0.31	62.00	0.10	0.10	0.10
12.00	1.71	1.71	1.71	63.00	0.09	0.09	0.09
13.00	2.36	2.36	2.36	64.00	0.07	0.07	0.07
14.00	1.24	1.24	1.24	65.00	0.06	0.06	0.06
15.00	0.97	0.97	0.97	66.00	0.05	0.05	0.05
16.00	0.78	0.78	0.78	67.00	0.04	0.04	0.04
17.00	0.64	0.64	0.64	68.00	0.03	0.03	0.03
18.00	0.55	0.55	0.55	69.00	0.02	0.02	0.02
19.00	0.50	0.50	0.50	70.00	0.02	0.02	0.02
20.00	0.47	0.47	0.47	71.00	0.01	0.01	0.01
21.00	0.44	0.44	0.44	72.00	0.01	0.01	0.01
22.00	0.42	0.42	0.42	73.00	0.01	0.01	0.01
23.00	0.40	0.40	0.40	74.00	0.01	0.01	0.01
24.00	0.38	0.38	0.38	75.00	0.01	0.01	0.01
25.00	0.22	0.22	0.22	76.00	0.00	0.00	0.00
26.00	0.20	0.20	0.20	77.00	0.00	0.00	0.00
27.00	0.19	0.19	0.19	78.00	0.00	0.00	0.00
28.00	0.19	0.19	0.19	79.00	0.00	0.00	0.00
29.00	0.19	0.19	0.19	80.00	0.00	0.00	0.00
30.00	0.19	0.19	0.19	81.00	0.00	0.00	0.00
31.00	0.18	0.18	0.18	82.00	0.00	0.00	0.00
32.00	0.18	0.18	0.18	83.00	0.00	0.00	0.00
33.00	0.18	0.18	0.18	84.00	0.00	0.00	0.00
34.00	0.18	0.18	0.18	85.00	0.00	0.00	0.00
35.00	0.18	0.18	0.18	86.00	0.00	0.00	0.00
36.00	0.18	0.18	0.18	87.00	0.00	0.00	0.00
37.00	0.17	0.17	0.17	88.00	0.00	0.00	0.00
38.00	0.17	0.17	0.17	89.00	0.00	0.00	0.00
39.00	0.17	0.17	0.17	90.00	0.00	0.00	0.00
40.00	0.17	0.17	0.17	91.00	0.00	0.00	0.00
41.00	0.17	0.17	0.17	92.00	0.00	0.00	0.00
42.00	0.17	0.17	0.17	93.00	0.00	0.00	0.00
43.00	0.17	0.17	0.17	94.00	0.00	0.00	0.00
44.00	0.16	0.16	0.16	95.00	0.00	0.00	0.00
45.00	0.16	0.16	0.16	96.00	0.00	0.00	0.00
46.00	0.16	0.16	0.16	97.00	0.00	0.00	0.00
47.00	0.15	0.15	0.15	98.00	0.00	0.00	0.00
48.00	0.15	0.15	0.15	99.00	0.00	0.00	0.00
49.00	0.14	0.14	0.14	100.00	0.00	0.00	0.00
50.00	0.14	0.14	0.14				

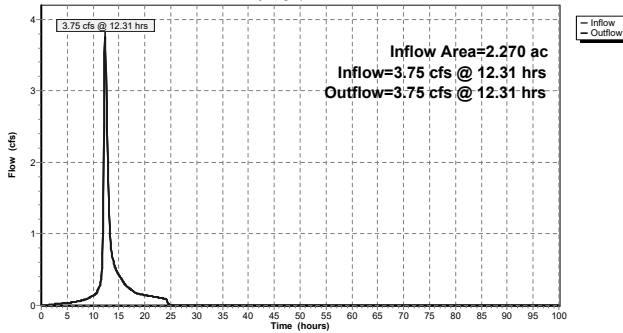
Summary for Reach 46R: P-100

Inflow Area = 2.270 ac, 22.47% Impervious, Inflow Depth = 3.00" for 25-Year event
 Inflow = 3.75 cfs @ 12.31 hrs, Volume= 0.567 af
 Outflow = 3.75 cfs @ 12.31 hrs, Volume= 0.567 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 46R: P-100

Hydrograph



Hydrograph for Reach 46R: P-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.01	0.01	0.01	53.00	0.00	0.00	0.00
3.00	0.02	0.02	0.02	54.00	0.00	0.00	0.00
4.00	0.03	0.03	0.03	55.00	0.00	0.00	0.00
5.00	0.04	0.04	0.04	56.00	0.00	0.00	0.00
6.00	0.04	0.04	0.04	57.00	0.00	0.00	0.00
7.00	0.05	0.05	0.05	58.00	0.00	0.00	0.00
8.00	0.07	0.07	0.07	59.00	0.00	0.00	0.00
9.00	0.10	0.10	0.10	60.00	0.00	0.00	0.00
10.00	0.14	0.14	0.14	61.00	0.00	0.00	0.00
11.00	0.22	0.22	0.22	62.00	0.00	0.00	0.00
12.00	1.51	1.51	1.51	63.00	0.00	0.00	0.00
13.00	1.49	1.49	1.49	64.00	0.00	0.00	0.00
14.00	0.58	0.58	0.58	65.00	0.00	0.00	0.00
15.00	0.42	0.42	0.42	66.00	0.00	0.00	0.00
16.00	0.31	0.31	0.31	67.00	0.00	0.00	0.00
17.00	0.24	0.24	0.24	68.00	0.00	0.00	0.00
18.00	0.19	0.19	0.19	69.00	0.00	0.00	0.00
19.00	0.16	0.16	0.16	70.00	0.00	0.00	0.00
20.00	0.14	0.14	0.14	71.00	0.00	0.00	0.00
21.00	0.13	0.13	0.13	72.00	0.00	0.00	0.00
22.00	0.12	0.12	0.12	73.00	0.00	0.00	0.00
23.00	0.11	0.11	0.11	74.00	0.00	0.00	0.00
24.00	0.10	0.10	0.10	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Pond 43P: P-200 Station 1450 Culvert

Inflow Area = 3.720 ac, 14.25% Impervious, Inflow Depth = 2.39" for 25-Year event
 Inflow = 3.45 cfs @ 12.55 hrs, Volume= 0.741 af
 Outflow = 0.19 cfs @ 21.15 hrs, Volume= 0.727 af, Atten= 94%, Lag= 515.9 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Primary = 0.19 cfs @ 21.15 hrs, Volume= 0.727 af

Routing by Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 148.64' @ 21.15 hrs Surf.Area= 22,241 sf Storage= 21,796 cf

Plug-Flow detention time= 1,300.1 min calculated for 0.726 af (98% of inflow)
 Center-of-Mass det. time= 1,290.8 min (2,158.3 - 867.6)

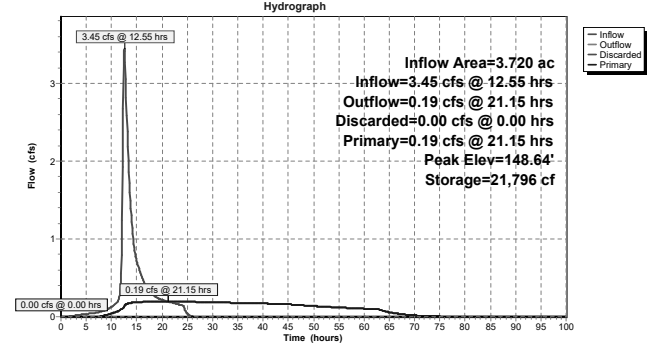
Volume #1	Invert	Avail.Storage	Storage Description
	143.50'	30,636 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.50	4	0	0
145.58	10	15	15
146.00	245	54	68
147.00	3,750	1,998	2,066
148.00	13,020	8,385	10,451
149.00	27,350	20,185	30,636

Device	Routing	Invert	Outlet Devices
#1	Discarded	1,000.00'	1,000 in/hr Exfiltration over Surface area above 1,000.00' Conductivity to Groundwater Elevation = 140.00' Excluded Surface area = 27,350 sf
#2	Primary	146.50'	2.0" x 2.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 2	145.58'	12.0" Round Culvert L= 60.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet/Outlet Invert= 145.58'/ 145.00' S= 0.0097' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

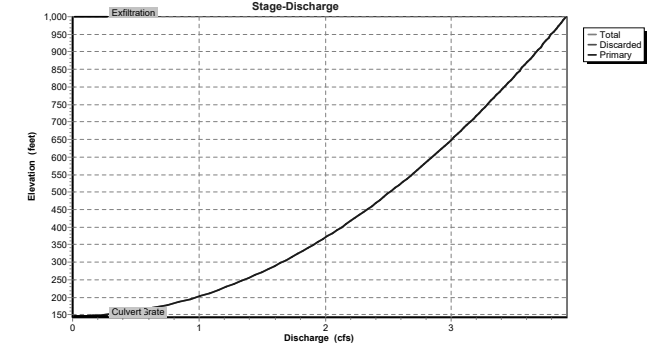
Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=143.50' (Free Discharge)
 1=Exfiltration (Controls 0.00 cfs)

Primary OutFlow Max=0.20 cfs @ 21.15 hrs HW=148.64' (Free Discharge)
 2=Orifice/Grate (Orifice Controls 0.20 cfs @ 7.05 fps)
 3=Culvert (Passes 0.20 cfs of 5.02 cfs potential flow)

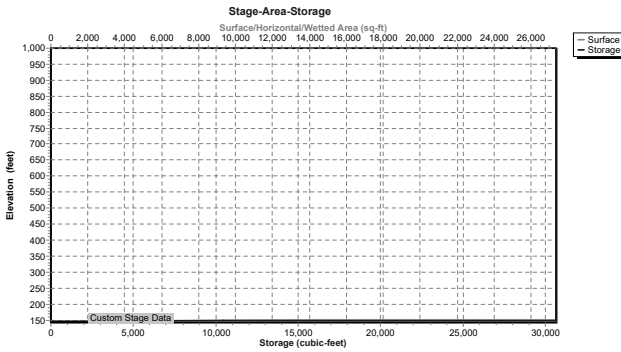
Pond 43P: P-200 Station 1450 Culvert



Pond 43P: P-200 Station 1450 Culvert



Pond 43P: P-200 Station 1450 Culvert



Hydrograph for Pond 43P: P-200 Station 1450 Culvert

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	143.50	0.00	0.00	0.00
2.00	0.01	15	145.58	0.00	0.00	0.00
4.00	0.03	145	146.07	0.00	0.00	0.00
6.00	0.04	394	146.29	0.00	0.00	0.00
8.00	0.07	763	146.55	0.01	0.00	0.01
10.00	0.13	1,264	146.72	0.04	0.00	0.04
12.00	0.80	2,452	147.05	0.10	0.00	0.10
14.00	1.22	17,411	148.34	0.18	0.00	0.18
16.00	0.51	21,567	148.55	0.19	0.00	0.19
18.00	0.30	22,995	148.62	0.19	0.00	0.19
20.00	0.22	23,395	148.64	0.19	0.00	0.19
22.00	0.18	23,418	148.64	0.19	0.00	0.19
24.00	0.15	23,197	148.63	0.19	0.00	0.19
26.00	0.01	22,215	148.58	0.19	0.00	0.19
28.00	0.00	20,855	148.52	0.19	0.00	0.19
30.00	0.00	19,511	148.45	0.19	0.00	0.19
32.00	0.00	18,188	148.38	0.18	0.00	0.18
34.00	0.00	16,889	148.32	0.18	0.00	0.18
36.00	0.00	15,611	148.26	0.18	0.00	0.18
38.00	0.00	14,354	148.19	0.17	0.00	0.17
40.00	0.00	13,119	148.13	0.17	0.00	0.17
42.00	0.00	11,904	148.07	0.17	0.00	0.17
44.00	0.00	10,710	148.01	0.16	0.00	0.16
46.00	0.00	9,552	147.99	0.16	0.00	0.16
48.00	0.00	8,458	147.76	0.15	0.00	0.15
50.00	0.00	7,428	147.64	0.14	0.00	0.14
52.00	0.00	6,458	147.52	0.13	0.00	0.13
54.00	0.00	5,543	147.41	0.12	0.00	0.12
56.00	0.00	4,681	147.31	0.12	0.00	0.12
58.00	0.00	3,869	147.22	0.11	0.00	0.11
60.00	0.00	3,104	147.12	0.10	0.00	0.10
62.00	0.00	2,383	147.04	0.10	0.00	0.10
64.00	0.00	1,741	146.99	0.07	0.00	0.07
66.00	0.00	1,321	146.74	0.05	0.00	0.05
68.00	0.00	1,060	146.65	0.03	0.00	0.03
70.00	0.00	897	146.59	0.02	0.00	0.02
72.00	0.00	796	146.56	0.01	0.00	0.01
74.00	0.00	733	146.54	0.01	0.00	0.01
76.00	0.00	693	146.52	0.00	0.00	0.00
78.00	0.00	669	146.51	0.00	0.00	0.00
80.00	0.00	654	146.51	0.00	0.00	0.00
82.00	0.00	644	146.51	0.00	0.00	0.00
84.00	0.00	638	146.50	0.00	0.00	0.00
86.00	0.00	635	146.50	0.00	0.00	0.00
88.00	0.00	633	146.50	0.00	0.00	0.00
90.00	0.00	631	146.50	0.00	0.00	0.00
92.00	0.00	630	146.50	0.00	0.00	0.00
94.00	0.00	630	146.50	0.00	0.00	0.00
96.00	0.00	629	146.50	0.00	0.00	0.00
98.00	0.00	629	146.50	0.00	0.00	0.00
100.00	0.00	629	146.50	0.00	0.00	0.00

Stage-Discharge for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
143.50	0.00	0.00	0.00	582.10	2.79	0.00	2.79
152.10	0.32	0.00	0.32	590.70	2.82	0.00	2.82
160.70	0.50	0.00	0.50	599.30	2.85	0.00	2.85
169.30	0.64	0.00	0.64	607.90	2.87	0.00	2.87
177.90	0.75	0.00	0.75	616.50	2.90	0.00	2.90
186.50	0.85	0.00	0.85	625.10	2.93	0.00	2.93
195.10	0.93	0.00	0.93	633.70	2.95	0.00	2.95
203.70	1.01	0.00	1.01	642.30	2.98	0.00	2.98
212.30	1.08	0.00	1.08	650.90	3.00	0.00	3.00
220.90	1.15	0.00	1.15	659.50	3.03	0.00	3.03
229.50	1.22	0.00	1.22	668.10	3.05	0.00	3.05
238.10	1.28	0.00	1.28	676.70	3.08	0.00	3.08
246.70	1.34	0.00	1.34	685.30	3.10	0.00	3.10
255.30	1.40	0.00	1.40	693.90	3.13	0.00	3.13
263.90	1.45	0.00	1.45	702.50	3.15	0.00	3.15
272.50	1.50	0.00	1.50	711.10	3.18	0.00	3.18
281.10	1.55	0.00	1.55	719.70	3.20	0.00	3.20
289.70	1.60	0.00	1.60	728.30	3.23	0.00	3.23
298.30	1.65	0.00	1.65	736.90	3.25	0.00	3.25
306.90	1.69	0.00	1.69	745.50	3.27	0.00	3.27
315.50	1.74	0.00	1.74	754.10	3.30	0.00	3.30
324.10	1.78	0.00	1.78	762.70	3.32	0.00	3.32
332.70	1.83	0.00	1.83	771.30	3.34	0.00	3.34
341.30	1.87	0.00	1.87	779.90	3.37	0.00	3.37
349.90	1.91	0.00	1.91	788.50	3.39	0.00	3.39
358.50	1.95	0.00	1.95	797.10	3.41	0.00	3.41
367.10	1.99	0.00	1.99	805.70	3.43	0.00	3.43
375.70	2.02	0.00	2.02	814.30	3.46	0.00	3.46
384.30	2.06	0.00	2.06	822.90	3.48	0.00	3.48
392.90	2.10	0.00	2.10	831.50	3.50	0.00	3.50
401.50	2.14	0.00	2.14	840.10	3.52	0.00	3.52
410.10	2.17	0.00	2.17	848.70	3.54	0.00	3.54
418.70	2.21	0.00	2.21	857.30	3.57	0.00	3.57
427.30	2.24	0.00	2.24	865.90	3.59	0.00	3.59
435.90	2.28	0.00	2.28	874.50	3.61	0.00	3.61
444.50	2.31	0.00	2.31	883.10	3.63	0.00	3.63
453.10	2.34	0.00	2.34	891.70	3.65	0.00	3.65
461.70	2.37	0.00	2.37	900.30	3.67	0.00	3.67
470.30	2.41	0.00	2.41	908.90	3.69	0.00	3.69
478.90	2.44	0.00	2.44	917.50	3.71	0.00	3.71
487.50	2.47	0.00	2.47	926.10	3.73	0.00	3.73
496.10	2.50	0.00	2.50	934.70	3.75	0.00	3.75
504.70	2.53	0.00	2.53	943.30	3.78	0.00	3.78
513.30	2.56	0.00	2.56	951.90	3.80	0.00	3.80
521.90	2.59	0.00	2.59	960.50	3.82	0.00	3.82
530.50	2.62	0.00	2.62	969.10	3.84	0.00	3.84
539.10	2.65	0.00	2.65	977.70	3.86	0.00	3.86
547.70	2.68	0.00	2.68	986.30	3.88	0.00	3.88
556.30	2.71	0.00	2.71	994.90	3.90	0.00	3.90
564.90	2.74	0.00	2.74				
573.50	2.76	0.00	2.76				

Stage-Area-Storage for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
143.50	27,350	0	582.10	27,350	30,636
152.10	27,350	30,636	590.70	27,350	30,636
160.70	27,350	30,636	599.30	27,350	30,636
169.30	27,350	30,636	607.90	27,350	30,636
177.90	27,350	30,636	616.50	27,350	30,636
186.50	27,350	30,636	625.10	27,350	30,636
195.10	27,350	30,636	633.70	27,350	30,636
203.70	27,350	30,636	642.30	27,350	30,636
212.30	27,350	30,636	650.90	27,350	30,636
220.90	27,350	30,636	659.50	27,350	30,636
229.50	27,350	30,636	668.10	27,350	30,636
238.10	27,350	30,636	676.70	27,350	30,636
246.70	27,350	30,636	685.30	27,350	30,636
255.30	27,350	30,636	693.90	27,350	30,636
263.90	27,350	30,636	702.50	27,350	30,636
272.50	27,350	30,636	711.10	27,350	30,636
281.10	27,350	30,636	719.70	27,350	30,636
289.70	27,350	30,636	728.30	27,350	30,636
298.30	27,350	30,636	736.90	27,350	30,636
306.90	27,350	30,636	745.50	27,350	30,636
315.50	27,350	30,636	754.10	27,350	30,636
324.10	27,350	30,636	762.70	27,350	30,636
332.70	27,350	30,636	771.30	27,350	30,636
341.30	27,350	30,636	779.90	27,350	30,636
349.90	27,350	30,636	788.50	27,350	30,636
358.50	27,350	30,636	797.10	27,350	30,636
367.10	27,350	30,636	805.70	27,350	30,636
375.70	27,350	30,636	814.30	27,350	30,636
384.30	27,350	30,636	822.90	27,350	30,636
392.90	27,350	30,636	831.50	27,350	30,636
401.50	27,350	30,636	840.10	27,350	30,636
410.10	27,350	30,636	848.70	27,350	30,636
418.70	27,350	30,636	857.30	27,350	30,636
427.30	27,350	30,636	865.90	27,350	30,636
435.90	27,350	30,636	874.50	27,350	30,636
444.50	27,350	30,636	883.10	27,350	30,636
453.10	27,350	30,636	891.70	27,350	30,636
461.70	27,350	30,636	900.30	27,350	30,636
470.30	27,350	30,636	908.90	27,350	30,636
478.90	27,350	30,636	917.50	27,350	30,636
487.50	27,350	30,636	926.10	27,350	30,636
496.10	27,350	30,636	934.70	27,350	30,636
504.70	27,350	30,636	943.30	27,350	30,636
513.30	27,350	30,636	951.90	27,350	30,636
521.90	27,350	30,636	960.50	27,350	30,636
530.50	27,350	30,636	969.10	27,350	30,636
539.10	27,350	30,636	977.70	27,350	30,636
547.70	27,350	30,636	986.30	27,350	30,636
556.30	27,350	30,636	994.90	27,350	30,636
564.90	27,350	30,636			
573.50	27,350	30,636			

Summary for Pond 44P: P-300 Rainwater Garden

Inflow Area = 1,590 ac, 2.52% Impervious, Inflow Depth = 1.08" for 25-Year event
 Inflow = 0.46 cfs @ 12.79 hrs, Volume= 0.143 af
 Outflow = 0.47 cfs @ 12.70 hrs, Volume= 0.130 af, Atten=0%, Lag=0.0 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Primary = 0.47 cfs @ 12.70 hrs, Volume= 0.130 af

Routing by Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 147.16' @ 12.70 hrs Surf.Area= 3,596 sf Storage= 573 cf

Plug-Flow detention time= 71.9 min calculated for 0.130 af (91% of inflow)
 Center-of-Mass det. time= 27.0 min (968.6 - 941.6)

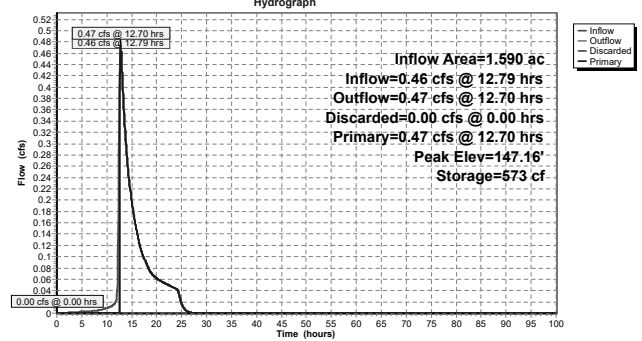
Volume	Invert	Avail.Storage	Storage Description
#1	147.00'	8,800 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.00	3,400	0	0
148.00	4,600	4,000	4,000
149.00	5,000	4,800	8,800

Device	Routing	Invert	Outlet Devices
#1	Discarded	1,000.00'	1,000 in/hr Exfiltration over Surface area above 1,000.00' Conductivity to Groundwater Elevation = 140.00' Excluded Surface area = 5,000 sf
#2	Primary	147.16'	Asymmetrical Weir, C= 3.27 Offset (feet) 1,100.00 1,150.00 1,200.00 1,255.00 Elev. (feet) 148.00 147.16 147.91 148.00

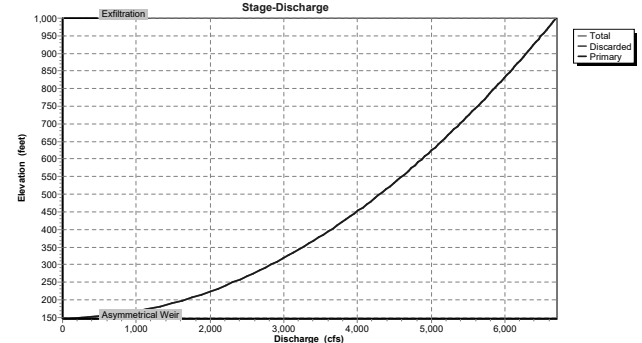
Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=147.00' (Free Discharge)
 1=Exfiltration (Controls 0.00 cfs)

Primary OutFlow Max=0.00 cfs @ 12.70 hrs HW=147.16' (Free Discharge)
 2=Asymmetrical Weir (Weir Controls 0.00 cfs @ 0.08 fps)

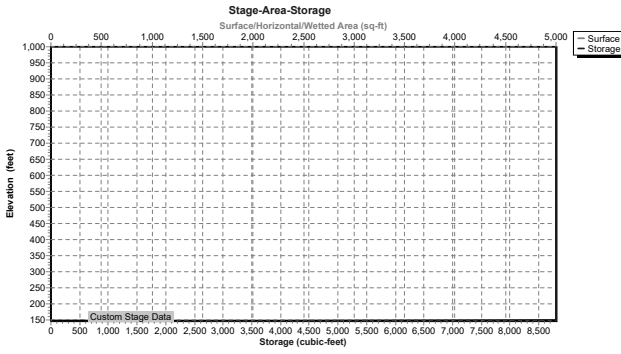
Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Hydrograph for Pond 44P: P-300 Rainwater Garden

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	147.00	0.00	0.00	0.00
2.00	0.00	1	147.00	0.00	0.00	0.00
4.00	0.00	10	147.00	0.00	0.00	0.00
6.00	0.00	27	147.01	0.00	0.00	0.00
8.00	0.00	55	147.02	0.00	0.00	0.00
10.00	0.01	103	147.03	0.00	0.00	0.00
12.00	0.23	203	147.06	0.00	0.00	0.00
14.00	0.08	568	147.16	0.28	0.00	0.28
16.00	0.15	564	147.16	0.15	0.00	0.15
18.00	0.09	562	147.16	0.09	0.00	0.09
20.00	0.06	561	147.16	0.06	0.00	0.06
22.00	0.05	561	147.16	0.05	0.00	0.05
24.00	0.04	561	147.16	0.04	0.00	0.04
26.00	0.00	559	147.16	0.00	0.00	0.00
28.00	0.00	559	147.16	0.00	0.00	0.00
30.00	0.00	559	147.16	0.00	0.00	0.00
32.00	0.00	559	147.16	0.00	0.00	0.00
34.00	0.00	559	147.16	0.00	0.00	0.00
36.00	0.00	559	147.16	0.00	0.00	0.00
38.00	0.00	559	147.16	0.00	0.00	0.00
40.00	0.00	559	147.16	0.00	0.00	0.00
42.00	0.00	559	147.16	0.00	0.00	0.00
44.00	0.00	559	147.16	0.00	0.00	0.00
46.00	0.00	559	147.16	0.00	0.00	0.00
48.00	0.00	559	147.16	0.00	0.00	0.00
50.00	0.00	559	147.16	0.00	0.00	0.00
52.00	0.00	559	147.16	0.00	0.00	0.00
54.00	0.00	559	147.16	0.00	0.00	0.00
56.00	0.00	559	147.16	0.00	0.00	0.00
58.00	0.00	559	147.16	0.00	0.00	0.00
60.00	0.00	559	147.16	0.00	0.00	0.00
62.00	0.00	559	147.16	0.00	0.00	0.00
64.00	0.00	559	147.16	0.00	0.00	0.00
66.00	0.00	559	147.16	0.00	0.00	0.00
68.00	0.00	559	147.16	0.00	0.00	0.00
70.00	0.00	559	147.16	0.00	0.00	0.00
72.00	0.00	559	147.16	0.00	0.00	0.00
74.00	0.00	559	147.16	0.00	0.00	0.00
76.00	0.00	559	147.16	0.00	0.00	0.00
78.00	0.00	559	147.16	0.00	0.00	0.00
80.00	0.00	559	147.16	0.00	0.00	0.00
82.00	0.00	559	147.16	0.00	0.00	0.00
84.00	0.00	559	147.16	0.00	0.00	0.00
86.00	0.00	559	147.16	0.00	0.00	0.00
88.00	0.00	559	147.16	0.00	0.00	0.00
90.00	0.00	559	147.16	0.00	0.00	0.00
92.00	0.00	559	147.16	0.00	0.00	0.00
94.00	0.00	559	147.16	0.00	0.00	0.00
96.00	0.00	559	147.16	0.00	0.00	0.00
98.00	0.00	559	147.16	0.00	0.00	0.00
100.00	0.00	559	147.16	0.00	0.00	0.00

Stage-Discharge for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
147.00	0.00	0.00	0.00	583.05	4,781.80	0.00	4,781.80
155.55	640.78	0.00	640.78	591.60	4,828.53	0.00	4,828.53
164.10	927.22	0.00	927.22	600.15	4,874.82	0.00	4,874.82
172.65	1,144.05	0.00	1,144.05	608.70	4,920.66	0.00	4,920.66
181.20	1,325.87	0.00	1,325.87	617.25	4,966.09	0.00	4,966.09
189.75	1,485.61	0.00	1,485.61	625.80	5,011.10	0.00	5,011.10
198.30	1,629.77	0.00	1,629.77	634.35	5,055.71	0.00	5,055.71
206.85	1,762.17	0.00	1,762.17	642.90	5,099.94	0.00	5,099.94
215.40	1,885.30	0.00	1,885.30	651.45	5,143.78	0.00	5,143.78
223.95	2,000.86	0.00	2,000.86	660.00	5,187.25	0.00	5,187.25
232.50	2,110.11	0.00	2,110.11	668.55	5,230.36	0.00	5,230.36
241.05	2,213.97	0.00	2,213.97	677.10	5,273.11	0.00	5,273.11
249.60	2,313.17	0.00	2,313.17	685.65	5,315.53	0.00	5,315.53
258.15	2,408.29	0.00	2,408.29	694.20	5,357.61	0.00	5,357.61
266.70	2,499.79	0.00	2,499.79	702.75	5,399.36	0.00	5,399.36
275.25	2,588.06	0.00	2,588.06	711.30	5,440.78	0.00	5,440.78
283.80	2,673.42	0.00	2,673.42	719.85	5,481.90	0.00	5,481.90
292.35	2,756.13	0.00	2,756.13	728.40	5,522.71	0.00	5,522.71
300.90	2,836.43	0.00	2,836.43	736.95	5,563.22	0.00	5,563.22
309.45	2,914.52	0.00	2,914.52	745.50	5,603.44	0.00	5,603.44
318.00	2,990.58	0.00	2,990.58	754.05	5,643.37	0.00	5,643.37
326.55	3,064.74	0.00	3,064.74	762.60	5,683.02	0.00	5,683.02
335.10	3,137.16	0.00	3,137.16	771.15	5,722.40	0.00	5,722.40
343.65	3,207.94	0.00	3,207.94	779.70	5,761.50	0.00	5,761.50
352.20	3,277.19	0.00	3,277.19	788.25	5,800.35	0.00	5,800.35
360.75	3,345.00	0.00	3,345.00	796.80	5,838.93	0.00	5,838.93
369.30	3,411.47	0.00	3,411.47	805.35	5,877.26	0.00	5,877.26
377.85	3,476.67	0.00	3,476.67	813.90	5,915.35	0.00	5,915.35
386.40	3,540.67	0.00	3,540.67	822.45	5,953.19	0.00	5,953.19
394.95	3,603.53	0.00	3,603.53	831.00	5,990.79	0.00	5,990.79
403.50	3,665.32	0.00	3,665.32	839.55	6,028.15	0.00	6,028.15
412.05	3,726.08	0.00	3,726.08	848.10	6,065.29	0.00	6,065.29
420.60	3,785.86	0.00	3,785.86	856.65	6,102.20	0.00	6,102.20
429.15	3,844.72	0.00	3,844.72	865.20	6,138.89	0.00	6,138.89
437.70	3,902.68	0.00	3,902.68	873.75	6,175.36	0.00	6,175.36
446.25	3,959.80	0.00	3,959.80	882.30	6,211.61	0.00	6,211.61
454.80	4,016.11	0.00	4,016.11	890.85	6,247.66	0.00	6,247.66
463.35	4,071.64	0.00	4,071.64	899.40	6,283.50	0.00	6,283.50
471.90	4,126.42	0.00	4,126.42	907.95	6,319.13	0.00	6,319.13
480.45	4,180.48	0.00	4,180.48	916.50	6,354.57	0.00	6,354.57
489.00	4,233.86	0.00	4,233.86	925.05	6,389.81	0.00	6,389.81
497.55	4,286.57	0.00	4,286.57	933.60	6,424.85	0.00	6,424.85
506.10	4,338.63	0.00	4,338.63	942.15	6,459.71	0.00	6,459.71
514.65	4,390.09	0.00	4,390.09	950.70	6,494.38	0.00	6,494.38
523.20	4,440.94	0.00	4,440.94	959.25	6,528.86	0.00	6,528.86
531.75	4,491.22	0.00	4,491.22	967.80	6,563.16	0.00	6,563.16
540.30	4,540.94	0.00	4,540.94	976.35	6,597.29	0.00	6,597.29
548.85	4,590.12	0.00	4,590.12	984.90	6,631.24	0.00	6,631.24
557.40	4,638.79	0.00	4,638.79	993.45	6,665.02	0.00	6,665.02
565.95	4,686.94	0.00	4,686.94				
574.50	4,734.61	0.00	4,734.61				

Stage-Area-Storage for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.00	3,400	0	583.05	5,000	8,800
155.55	5,000	8,800	591.60	5,000	8,800
164.10	5,000	8,800	600.15	5,000	8,800
172.65	5,000	8,800	608.70	5,000	8,800
181.20	5,000	8,800	617.25	5,000	8,800
189.75	5,000	8,800	625.80	5,000	8,800
198.30	5,000	8,800	634.35	5,000	8,800
206.85	5,000	8,800	642.90	5,000	8,800
215.40	5,000	8,800	651.45	5,000	8,800
223.95	5,000	8,800	660.00	5,000	8,800
232.50	5,000	8,800	668.55	5,000	8,800
241.05	5,000	8,800	677.10	5,000	8,800
249.60	5,000	8,800	685.65	5,000	8,800
258.15	5,000	8,800	694.20	5,000	8,800
266.70	5,000	8,800	702.75	5,000	8,800
275.25	5,000	8,800	711.30	5,000	8,800
283.80	5,000	8,800	719.85	5,000	8,800
292.35	5,000	8,800	728.40	5,000	8,800
300.90	5,000	8,800	736.95	5,000	8,800
309.45	5,000	8,800	745.50	5,000	8,800
318.00	5,000	8,800	754.05	5,000	8,800
326.55	5,000	8,800	762.60	5,000	8,800
335.10	5,000	8,800	771.15	5,000	8,800
343.65	5,000	8,800	779.70	5,000	8,800
352.20	5,000	8,800	788.25	5,000	8,800
360.75	5,000	8,800	796.80	5,000	8,800
369.30	5,000	8,800	805.35	5,000	8,800
377.85	5,000	8,800	813.90	5,000	8,800
386.40	5,000	8,800	822.45	5,000	8,800
394.95	5,000	8,800	831.00	5,000	8,800
403.50	5,000	8,800	839.55	5,000	8,800
412.05	5,000	8,800	848.10	5,000	8,800
420.60	5,000	8,800	856.65	5,000	8,800
429.15	5,000	8,800	865.20	5,000	8,800
437.70	5,000	8,800	873.75	5,000	8,800

Time span=0.00-100.00 hrs, dt=0.10 hrs, 1001 points
 Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: E-100 PERV	Runoff Area=2.270 ac 0.00% Impervious Runoff Depth=3.71" Flow Length=610' Tc=16.5 min CN=60 Runoff=4.97 cfs 0.702 af
Subcatchment2S: E-200 PERV	Runoff Area=3.720 ac 0.00% Impervious Runoff Depth=3.36" Flow Length=373' Tc=31.5 min CN=57 Runoff=5.23 cfs 1.042 af
Subcatchment3S: E-300 PERV	Runoff Area=1.590 ac 0.00% Impervious Runoff Depth=2.12" Flow Length=300' Slope=0.0100 1/100 Tc=40.2 min CN=46 Runoff=1.07 cfs 0.280 af
Subcatchment4S: E-400 PERV	Runoff Area=3.460 ac 0.00% Impervious Runoff Depth=1.08" Flow Length=150' Slope=0.0250 1/40 Tc=15.9 min CN=36 Runoff=1.43 cfs 0.310 af
Subcatchment45S: P-100 PERV	Runoff Area=1.760 ac 0.00% Impervious Runoff Depth=3.83" Flow Length=610' Tc=16.5 min CN=61 Runoff=3.99 cfs 0.562 af
Subcatchment46S: P-200 PERV	Runoff Area=3.190 ac 0.00% Impervious Runoff Depth=3.36" Flow Length=373' Tc=31.5 min CN=57 Runoff=4.48 cfs 0.894 af
Subcatchment47S: P-300 PERV	Runoff Area=1.550 ac 0.00% Impervious Runoff Depth=2.12" Flow Length=300' Slope=0.0100 1/100 Tc=40.2 min CN=46 Runoff=1.05 cfs 0.273 af
Subcatchment48S: P-400 PERV	Runoff Area=3.400 ac 0.00% Impervious Runoff Depth=1.08" Flow Length=150' Slope=0.0250 1/40 Tc=15.9 min CN=36 Runoff=1.41 cfs 0.305 af
Subcatchment49S: P-100 IMP	Runoff Area=0.510 ac 100.00% Impervious Runoff Depth=8.26" Flow Length=610' Tc=16.5 min CN=98 Runoff=2.24 cfs 0.351 af
Subcatchment50S: P-200 IMP	Runoff Area=0.530 ac 100.00% Impervious Runoff Depth=8.26" Flow Length=373' Tc=31.5 min CN=98 Runoff=1.71 cfs 0.365 af
Subcatchment51S: P-300 IMP	Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=8.26" Flow Length=300' Slope=0.0100 1/100 Tc=40.2 min CN=98 Runoff=0.11 cfs 0.028 af
Subcatchment52S: P-400 IMP	Runoff Area=0.060 ac 100.00% Impervious Runoff Depth=8.26" Flow Length=150' Slope=0.0250 1/40 Tc=15.9 min CN=98 Runoff=0.27 cfs 0.041 af
Reach 6R: E-100	Inflow=4.97 cfs 0.702 af Outflow=4.97 cfs 0.702 af
Reach 7R: E-200	Inflow=5.23 cfs 1.042 af Outflow=5.23 cfs 1.042 af
Reach 8R: E-300	Inflow=1.07 cfs 0.280 af Outflow=1.07 cfs 0.280 af
Reach 22R: E-400	Inflow=1.43 cfs 0.310 af Outflow=1.43 cfs 0.310 af

Reach 23R: E-POA "A"	Inflow=9.70 cfs 1.745 af Outflow=9.70 cfs 1.745 af
Reach 25R: E-POA "B"	Inflow=2.40 cfs 0.591 af Outflow=2.40 cfs 0.591 af
Reach 26R: E-POA	Inflow=11.97 cfs 2.335 af Outflow=11.97 cfs 2.335 af
Reach 38R: P-400	Inflow=1.63 cfs 0.346 af Outflow=1.63 cfs 0.346 af
Reach 39R: P-POA "A"	Inflow=6.35 cfs 2.157 af Outflow=6.35 cfs 2.157 af
Reach 40R: P-POA "B"	Inflow=2.68 cfs 0.634 af Outflow=2.68 cfs 0.634 af
Reach 41R: P-POA	Inflow=8.55 cfs 2.791 af Outflow=8.55 cfs 2.791 af
Reach 46R: P-100	Inflow=6.21 cfs 0.913 af Outflow=6.21 cfs 0.913 af
Pond 43P: P-200 Station 1450 Culvert	Peak Elev=864.45' Storage=30,636 cf Inflow=6.17 cfs 1.259 af Discarded=0.00 cfs 0.000 af Primary=3.59 cfs 1.244 af Outflow=3.59 cfs 1.244 af
Pond 44P: P-300 Rainwater Garden	Peak Elev=147.17' Storage=592 cf Inflow=1.15 cfs 0.301 af Discarded=0.00 cfs 0.000 af Primary=1.17 cfs 0.288 af Outflow=1.17 cfs 0.288 af
Total Runoff Area = 22.080 ac Runoff Volume = 5.154 af Average Runoff Depth = 2.80" 94.84% Pervious = 20.940 ac 5.16% Impervious = 1.140 ac	

Summary for Subcatchment 1S: E-100 PERV

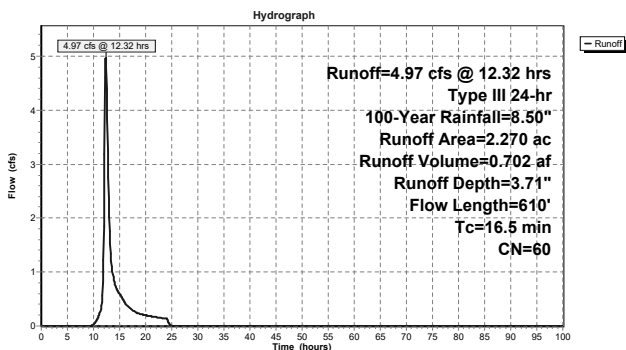
Runoff = 4.97 cfs @ 12.32 hrs, Volume= 0.702 af, Depth= 3.71"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.420	55	Woods, Good, HSG B
1.850	61	>75% Grass cover, Good, HSG B
2.270	60	Weighted Average
2.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 1S: E-100 PERV



Hydrograph for Subcatchment 1S: E-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	3.71	0.00
1.00	0.08	0.00	0.00	52.00	8.50	3.71	0.00
2.00	0.17	0.00	0.00	53.00	8.50	3.71	0.00
3.00	0.26	0.00	0.00	54.00	8.50	3.71	0.00
4.00	0.37	0.00	0.00	55.00	8.50	3.71	0.00
5.00	0.48	0.00	0.00	56.00	8.50	3.71	0.00
6.00	0.61	0.00	0.00	57.00	8.50	3.71	0.00
7.00	0.77	0.00	0.00	58.00	8.50	3.71	0.00
8.00	0.97	0.00	0.00	59.00	8.50	3.71	0.00
9.00	1.24	0.00	0.00	60.00	8.50	3.71	0.00
10.00	1.61	0.01	0.03	61.00	8.50	3.71	0.00
11.00	2.12	0.08	0.18	62.00	8.50	3.71	0.00
12.00	4.25	0.89	1.85	63.00	8.50	3.71	0.00
13.00	6.37	2.17	2.04	64.00	8.50	3.71	0.00
14.00	6.89	2.53	0.81	65.00	8.50	3.71	0.00
15.00	7.28	2.79	0.59	66.00	8.50	3.71	0.00
16.00	7.53	2.99	0.44	67.00	8.50	3.71	0.00
17.00	7.73	3.13	0.33	68.00	8.50	3.71	0.00
18.00	7.89	3.25	0.26	69.00	8.50	3.71	0.00
19.00	8.02	3.35	0.22	70.00	8.50	3.71	0.00
20.00	8.13	3.43	0.20	71.00	8.50	3.71	0.00
21.00	8.24	3.51	0.18	72.00	8.50	3.71	0.00
22.00	8.34	3.59	0.17	73.00	8.50	3.71	0.00
23.00	8.42	3.65	0.15	74.00	8.50	3.71	0.00
24.00	8.50	3.71	0.13	75.00	8.50	3.71	0.00
25.00	8.50	3.71	0.01	76.00	8.50	3.71	0.00
26.00	8.50	3.71	0.00	77.00	8.50	3.71	0.00
27.00	8.50	3.71	0.00	78.00	8.50	3.71	0.00
28.00	8.50	3.71	0.00	79.00	8.50	3.71	0.00
29.00	8.50	3.71	0.00	80.00	8.50	3.71	0.00
30.00	8.50	3.71	0.00	81.00	8.50	3.71	0.00
31.00	8.50	3.71	0.00	82.00	8.50	3.71	0.00
32.00	8.50	3.71	0.00	83.00	8.50	3.71	0.00
33.00	8.50	3.71	0.00	84.00	8.50	3.71	0.00
34.00	8.50	3.71	0.00	85.00	8.50	3.71	0.00
35.00	8.50	3.71	0.00	86.00	8.50	3.71	0.00
36.00	8.50	3.71	0.00	87.00	8.50	3.71	0.00
37.00	8.50	3.71	0.00	88.00	8.50	3.71	0.00
38.00	8.50	3.71	0.00	89.00	8.50	3.71	0.00
39.00	8.50	3.71	0.00	90.00	8.50	3.71	0.00
40.00	8.50	3.71	0.00	91.00	8.50	3.71	0.00
41.00	8.50	3.71	0.00	92.00	8.50	3.71	0.00
42.00	8.50	3.71	0.00	93.00	8.50	3.71	0.00
43.00	8.50	3.71	0.00	94.00	8.50	3.71	0.00
44.00	8.50	3.71	0.00	95.00	8.50	3.71	0.00
45.00	8.50	3.71	0.00	96.00	8.50	3.71	0.00
46.00	8.50	3.71	0.00	97.00	8.50	3.71	0.00
47.00	8.50	3.71	0.00	98.00	8.50	3.71	0.00
48.00	8.50	3.71	0.00	99.00	8.50	3.71	0.00
49.00	8.50	3.71	0.00	100.00	8.50	3.71	0.00
50.00	8.50	3.71	0.00				

Summary for Subcatchment 2S: E-200 PERV

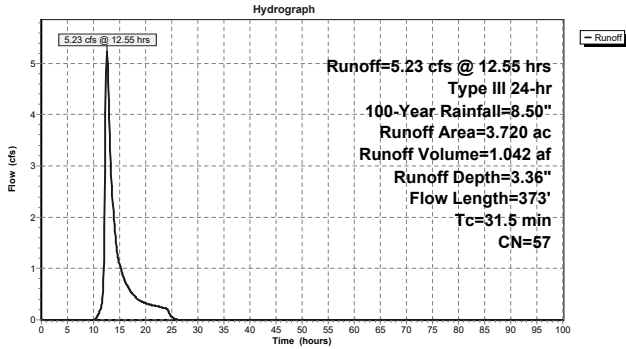
Runoff = 5.23 cfs @ 12.55 hrs, Volume= 1.042 af, Depth= 3.36"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
2.400	55	Woods, Good, HSG B
0.010	30	Woods, Good, HSG A
1.310	61	>75% Grass cover, Good, HSG B
3.720	57	Weighted Average
3.720		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 2S: E-200 PERV



Hydrograph for Subcatchment 2S: E-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	3.36	0.00
1.00	0.08	0.00	0.00	52.00	8.50	3.36	0.00
2.00	0.17	0.00	0.00	53.00	8.50	3.36	0.00
3.00	0.26	0.00	0.00	54.00	8.50	3.36	0.00
4.00	0.37	0.00	0.00	55.00	8.50	3.36	0.00
5.00	0.48	0.00	0.00	56.00	8.50	3.36	0.00
6.00	0.61	0.00	0.00	57.00	8.50	3.36	0.00
7.00	0.77	0.00	0.00	58.00	8.50	3.36	0.00
8.00	0.97	0.00	0.00	59.00	8.50	3.36	0.00
9.00	1.24	0.00	0.00	60.00	8.50	3.36	0.00
10.00	1.61	0.00	0.00	61.00	8.50	3.36	0.00
11.00	2.12	0.05	0.12	62.00	8.50	3.36	0.00
12.00	4.25	0.73	1.14	63.00	8.50	3.36	0.00
13.00	6.37	1.91	3.92	64.00	8.50	3.36	0.00
14.00	6.89	2.24	1.84	65.00	8.50	3.36	0.00
15.00	7.26	2.49	1.08	66.00	8.50	3.36	0.00
16.00	7.53	2.67	0.77	67.00	8.50	3.36	0.00
17.00	7.73	2.81	0.57	68.00	8.50	3.36	0.00
18.00	7.89	2.92	0.45	69.00	8.50	3.36	0.00
19.00	8.02	3.01	0.37	70.00	8.50	3.36	0.00
20.00	8.13	3.10	0.32	71.00	8.50	3.36	0.00
21.00	8.24	3.17	0.29	72.00	8.50	3.36	0.00
22.00	8.34	3.24	0.27	73.00	8.50	3.36	0.00
23.00	8.42	3.31	0.24	74.00	8.50	3.36	0.00
24.00	8.50	3.36	0.22	75.00	8.50	3.36	0.00
25.00	8.50	3.36	0.06	76.00	8.50	3.36	0.00
26.00	8.50	3.36	0.01	77.00	8.50	3.36	0.00
27.00	8.50	3.36	0.00	78.00	8.50	3.36	0.00
28.00	8.50	3.36	0.00	79.00	8.50	3.36	0.00
29.00	8.50	3.36	0.00	80.00	8.50	3.36	0.00
30.00	8.50	3.36	0.00	81.00	8.50	3.36	0.00
31.00	8.50	3.36	0.00	82.00	8.50	3.36	0.00
32.00	8.50	3.36	0.00	83.00	8.50	3.36	0.00
33.00	8.50	3.36	0.00	84.00	8.50	3.36	0.00
34.00	8.50	3.36	0.00	85.00	8.50	3.36	0.00
35.00	8.50	3.36	0.00	86.00	8.50	3.36	0.00
36.00	8.50	3.36	0.00	87.00	8.50	3.36	0.00
37.00	8.50	3.36	0.00	88.00	8.50	3.36	0.00
38.00	8.50	3.36	0.00	89.00	8.50	3.36	0.00
39.00	8.50	3.36	0.00	90.00	8.50	3.36	0.00
40.00	8.50	3.36	0.00	91.00	8.50	3.36	0.00
41.00	8.50	3.36	0.00	92.00	8.50	3.36	0.00
42.00	8.50	3.36	0.00	93.00	8.50	3.36	0.00
43.00	8.50	3.36	0.00	94.00	8.50	3.36	0.00
44.00	8.50	3.36	0.00	95.00	8.50	3.36	0.00
45.00	8.50	3.36	0.00	96.00	8.50	3.36	0.00
46.00	8.50	3.36	0.00	97.00	8.50	3.36	0.00
47.00	8.50	3.36	0.00	98.00	8.50	3.36	0.00
48.00	8.50	3.36	0.00	99.00	8.50	3.36	0.00
49.00	8.50	3.36	0.00	100.00	8.50	3.36	0.00
50.00	8.50	3.36	0.00				

Summary for Subcatchment 3S: E-300 PERV

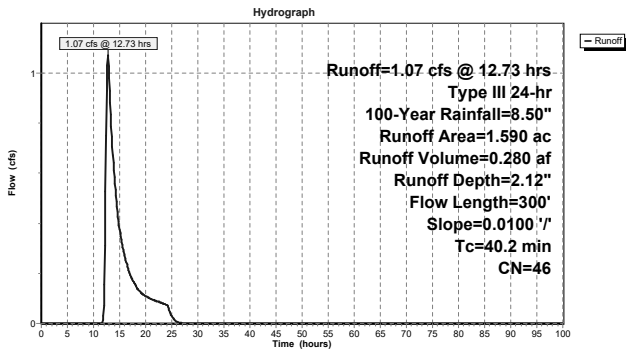
Runoff = 1.07 cfs @ 12.73 hrs, Volume= 0.280 af, Depth= 2.12"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	Pasture/grassland/range, Good, HSG B
0.940	39	Pasture/grassland/range, Good, HSG A
1.590	46	Weighted Average
1.590		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 3S: E-300 PERV



Hydrograph for Subcatchment 3S: E-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	2.12	0.00
1.00	0.08	0.00	0.00	52.00	8.50	2.12	0.00
2.00	0.17	0.00	0.00	53.00	8.50	2.12	0.00
3.00	0.26	0.00	0.00	54.00	8.50	2.12	0.00
4.00	0.37	0.00	0.00	55.00	8.50	2.12	0.00
5.00	0.48	0.00	0.00	56.00	8.50	2.12	0.00
6.00	0.61	0.00	0.00	57.00	8.50	2.12	0.00
7.00	0.77	0.00	0.00	58.00	8.50	2.12	0.00
8.00	0.97	0.00	0.00	59.00	8.50	2.12	0.00
9.00	1.24	0.00	0.00	60.00	8.50	2.12	0.00
10.00	1.61	0.00	0.00	61.00	8.50	2.12	0.00
11.00	2.12	0.00	0.00	62.00	8.50	2.12	0.00
12.00	4.25	0.27	0.07	63.00	8.50	2.12	0.00
13.00	6.37	1.03	0.98	64.00	8.50	2.12	0.00
14.00	6.89	1.27	0.58	65.00	8.50	2.12	0.00
15.00	7.26	1.45	0.38	66.00	8.50	2.12	0.00
16.00	7.53	1.59	0.27	67.00	8.50	2.12	0.00
17.00	7.73	1.69	0.20	68.00	8.50	2.12	0.00
18.00	7.89	1.78	0.15	69.00	8.50	2.12	0.00
19.00	8.02	1.85	0.12	70.00	8.50	2.12	0.00
20.00	8.13	1.91	0.11	71.00	8.50	2.12	0.00
21.00	8.24	1.97	0.10	72.00	8.50	2.12	0.00
22.00	8.34	2.02	0.09	73.00	8.50	2.12	0.00
23.00	8.42	2.07	0.08	74.00	8.50	2.12	0.00
24.00	8.50	2.12	0.07	75.00	8.50	2.12	0.00
25.00	8.50	2.12	0.03	76.00	8.50	2.12	0.00
26.00	8.50	2.12	0.01	77.00	8.50	2.12	0.00
27.00	8.50	2.12	0.00	78.00	8.50	2.12	0.00
28.00	8.50	2.12	0.00	79.00	8.50	2.12	0.00
29.00	8.50	2.12	0.00	80.00	8.50	2.12	0.00
30.00	8.50	2.12	0.00	81.00	8.50	2.12	0.00
31.00	8.50	2.12	0.00	82.00	8.50	2.12	0.00
32.00	8.50	2.12	0.00	83.00	8.50	2.12	0.00
33.00	8.50	2.12	0.00	84.00	8.50	2.12	0.00
34.00	8.50	2.12	0.00	85.00	8.50	2.12	0.00
35.00	8.50	2.12	0.00	86.00	8.50	2.12	0.00
36.00	8.50	2.12	0.00	87.00	8.50	2.12	0.00
37.00	8.50	2.12	0.00	88.00	8.50	2.12	0.00
38.00	8.50	2.12	0.00	89.00	8.50	2.12	0.00
39.00	8.50	2.12	0.00	90.00	8.50	2.12	0.00
40.00	8.50	2.12	0.00	91.00	8.50	2.12	0.00
41.00	8.50	2.12	0.00	92.00	8.50	2.12	0.00
42.00	8.50	2.12	0.00	93.00	8.50	2.12	0.00
43.00	8.50	2.12	0.00	94.00	8.50	2.12	0.00
44.00	8.50	2.12	0.00	95.00	8.50	2.12	0.00
45.00	8.50	2.12	0.00	96.00	8.50	2.12	0.00
46.00	8.50	2.12	0.00	97.00	8.50	2.12	0.00
47.00	8.50	2.12	0.00	98.00	8.50	2.12	0.00
48.00	8.50	2.12	0.00	99.00	8.50	2.12	0.00
49.00	8.50	2.12	0.00	100.00	8.50	2.12	0.00
50.00	8.50	2.12	0.00				

Summary for Subcatchment 4S: E-400 PERV

Runoff = 1.43 cfs @ 12.49 hrs, Volume= 0.310 af, Depth= 1.08"

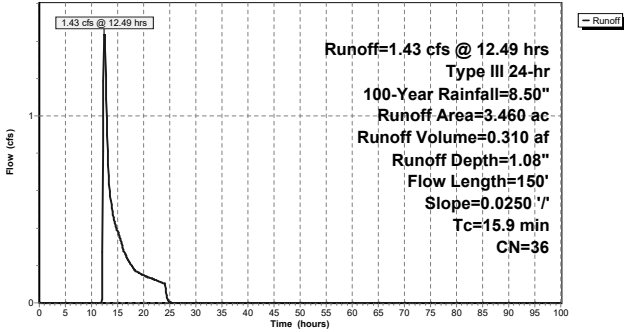
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.980	39	Pasture/grassland/range_Good, HSG A
3.460	36	Weighted Average
3.460		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 4S: E-400 PERV

Hydrograph



Hydrograph for Subcatchment 4S: E-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	1.08	0.00
1.00	0.08	0.00	0.00	52.00	8.50	1.08	0.00
2.00	0.17	0.00	0.00	53.00	8.50	1.08	0.00
3.00	0.26	0.00	0.00	54.00	8.50	1.08	0.00
4.00	0.37	0.00	0.00	55.00	8.50	1.08	0.00
5.00	0.48	0.00	0.00	56.00	8.50	1.08	0.00
6.00	0.61	0.00	0.00	57.00	8.50	1.08	0.00
7.00	0.77	0.00	0.00	58.00	8.50	1.08	0.00
8.00	0.97	0.00	0.00	59.00	8.50	1.08	0.00
9.00	1.24	0.00	0.00	60.00	8.50	1.08	0.00
10.00	1.61	0.00	0.00	61.00	8.50	1.08	0.00
11.00	2.12	0.00	0.00	62.00	8.50	1.08	0.00
12.00	4.25	0.03	0.02	63.00	8.50	1.08	0.00
13.00	6.37	0.39	0.90	64.00	8.50	1.08	0.00
14.00	6.89	0.53	0.49	65.00	8.50	1.08	0.00
15.00	7.26	0.64	0.38	66.00	8.50	1.08	0.00
16.00	7.53	0.73	0.30	67.00	8.50	1.08	0.00
17.00	7.73	0.79	0.23	68.00	8.50	1.08	0.00
18.00	7.89	0.85	0.19	69.00	8.50	1.08	0.00
19.00	8.02	0.90	0.16	70.00	8.50	1.08	0.00
20.00	8.13	0.94	0.15	71.00	8.50	1.08	0.00
21.00	8.24	0.98	0.14	72.00	8.50	1.08	0.00
22.00	8.34	1.01	0.13	73.00	8.50	1.08	0.00
23.00	8.42	1.05	0.11	74.00	8.50	1.08	0.00
24.00	8.50	1.08	0.10	75.00	8.50	1.08	0.00
25.00	8.50	1.08	0.00	76.00	8.50	1.08	0.00
26.00	8.50	1.08	0.00	77.00	8.50	1.08	0.00
27.00	8.50	1.08	0.00	78.00	8.50	1.08	0.00
28.00	8.50	1.08	0.00	79.00	8.50	1.08	0.00
29.00	8.50	1.08	0.00	80.00	8.50	1.08	0.00
30.00	8.50	1.08	0.00	81.00	8.50	1.08	0.00
31.00	8.50	1.08	0.00	82.00	8.50	1.08	0.00
32.00	8.50	1.08	0.00	83.00	8.50	1.08	0.00
33.00	8.50	1.08	0.00	84.00	8.50	1.08	0.00
34.00	8.50	1.08	0.00	85.00	8.50	1.08	0.00
35.00	8.50	1.08	0.00	86.00	8.50	1.08	0.00
36.00	8.50	1.08	0.00	87.00	8.50	1.08	0.00
37.00	8.50	1.08	0.00	88.00	8.50	1.08	0.00
38.00	8.50	1.08	0.00	89.00	8.50	1.08	0.00
39.00	8.50	1.08	0.00	90.00	8.50	1.08	0.00
40.00	8.50	1.08	0.00	91.00	8.50	1.08	0.00
41.00	8.50	1.08	0.00	92.00	8.50	1.08	0.00
42.00	8.50	1.08	0.00	93.00	8.50	1.08	0.00
43.00	8.50	1.08	0.00	94.00	8.50	1.08	0.00
44.00	8.50	1.08	0.00	95.00	8.50	1.08	0.00
45.00	8.50	1.08	0.00	96.00	8.50	1.08	0.00
46.00	8.50	1.08	0.00	97.00	8.50	1.08	0.00
47.00	8.50	1.08	0.00	98.00	8.50	1.08	0.00
48.00	8.50	1.08	0.00	99.00	8.50	1.08	0.00
49.00	8.50	1.08	0.00	100.00	8.50	1.08	0.00
50.00	8.50	1.08	0.00				

Summary for Subcatchment 45S: P-100 PERV

Runoff = 3.99 cfs @ 12.31 hrs, Volume= 0.562 af, Depth= 3.83"

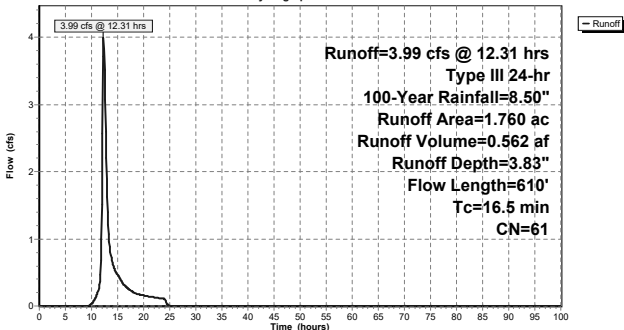
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.130	55	Woods, Good, HSG B
1.630	61	>75% Grass cover, Good, HSG B
1.760	61	Weighted Average
1.760		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 45S: P-100 PERV

Hydrograph



Hydrograph for Subcatchment 45S: P-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	3.83	0.00
1.00	0.08	0.00	0.00	52.00	8.50	3.83	0.00
2.00	0.17	0.00	0.00	53.00	8.50	3.83	0.00
3.00	0.26	0.00	0.00	54.00	8.50	3.83	0.00
4.00	0.37	0.00	0.00	55.00	8.50	3.83	0.00
5.00	0.48	0.00	0.00	56.00	8.50	3.83	0.00
6.00	0.61	0.00	0.00	57.00	8.50	3.83	0.00
7.00	0.77	0.00	0.00	58.00	8.50	3.83	0.00
8.00	0.97	0.00	0.00	59.00	8.50	3.83	0.00
9.00	1.24	0.00	0.00	60.00	8.50	3.83	0.00
10.00	1.61	0.02	0.03	61.00	8.50	3.83	0.00
11.00	2.12	0.10	0.16	62.00	8.50	3.83	0.00
12.00	4.25	0.94	1.51	63.00	8.50	3.83	0.00
13.00	6.37	2.26	1.62	64.00	8.50	3.83	0.00
14.00	6.89	2.63	0.64	65.00	8.50	3.83	0.00
15.00	7.26	2.89	0.47	66.00	8.50	3.83	0.00
16.00	7.53	3.09	0.34	67.00	8.50	3.83	0.00
17.00	7.73	3.24	0.26	68.00	8.50	3.83	0.00
18.00	7.89	3.36	0.21	69.00	8.50	3.83	0.00
19.00	8.02	3.46	0.17	70.00	8.50	3.83	0.00
20.00	8.13	3.55	0.16	71.00	8.50	3.83	0.00
21.00	8.24	3.63	0.14	72.00	8.50	3.83	0.00
22.00	8.34	3.70	0.13	73.00	8.50	3.83	0.00
23.00	8.42	3.77	0.12	74.00	8.50	3.83	0.00
24.00	8.50	3.83	0.11	75.00	8.50	3.83	0.00
25.00	8.50	3.83	0.01	76.00	8.50	3.83	0.00
26.00	8.50	3.83	0.00	77.00	8.50	3.83	0.00
27.00	8.50	3.83	0.00	78.00	8.50	3.83	0.00
28.00	8.50	3.83	0.00	79.00	8.50	3.83	0.00
29.00	8.50	3.83	0.00	80.00	8.50	3.83	0.00
30.00	8.50	3.83	0.00	81.00	8.50	3.83	0.00
31.00	8.50	3.83	0.00	82.00	8.50	3.83	0.00
32.00	8.50	3.83	0.00	83.00	8.50	3.83	0.00
33.00	8.50	3.83	0.00	84.00	8.50	3.83	0.00
34.00	8.50	3.83	0.00	85.00	8.50	3.83	0.00
35.00	8.50	3.83	0.00	86.00	8.50	3.83	0.00
36.00	8.50	3.83	0.00	87.00	8.50	3.83	0.00
37.00	8.50	3.83	0.00	88.00	8.50	3.83	0.00
38.00	8.50	3.83	0.00	89.00	8.50	3.83	0.00
39.00	8.50	3.83	0.00	90.00	8.50	3.83	0.00
40.00	8.50	3.83	0.00	91.00	8.50	3.83	0.00
41.00	8.50	3.83	0.00	92.00	8.50	3.83	0.00
42.00	8.50	3.83	0.00	93.00	8.50	3.83	0.00
43.00	8.50	3.83	0.00	94.00	8.50	3.83	0.00
44.00	8.50	3.83	0.00	95.00	8.50	3.83	0.00
45.00	8.50	3.83	0.00	96.00	8.50	3.83	0.00
46.00	8.50	3.83	0.00	97.00	8.50	3.83	0.00
47.00	8.50	3.83	0.00	98.00	8.50	3.83	0.00
48.00	8.50	3.83	0.00	99.00	8.50	3.83	0.00
49.00	8.50	3.83	0.00	100.00	8.50	3.83	0.00
50.00	8.50	3.83	0.00				

Summary for Subcatchment 46S: P-200 PERV

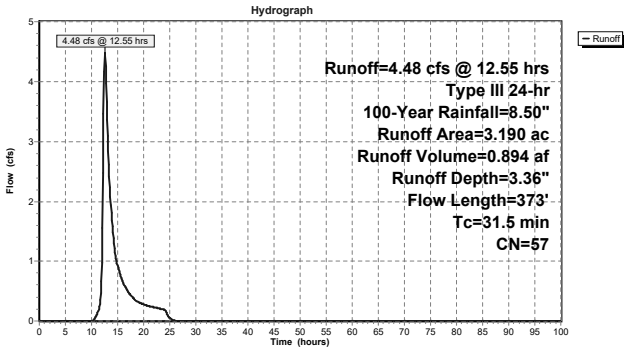
Runoff = 4.48 cfs @ 12.55 hrs, Volume= 0.894 af, Depth= 3.36"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
2.070	55	Woods, Good, HSG B
0.000	30	Woods, Good, HSG A
1.110	61	>75% Grass cover, Good, HSG B
0.010	39	>75% Grass cover, Good, HSG A
3.190	57	Weighted Average
3.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 46S: P-200 PERV



Hydrograph for Subcatchment 46S: P-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	3.36	0.00
1.00	0.08	0.00	0.00	52.00	8.50	3.36	0.00
2.00	0.17	0.00	0.00	53.00	8.50	3.36	0.00
3.00	0.26	0.00	0.00	54.00	8.50	3.36	0.00
4.00	0.37	0.00	0.00	55.00	8.50	3.36	0.00
5.00	0.48	0.00	0.00	56.00	8.50	3.36	0.00
6.00	0.61	0.00	0.00	57.00	8.50	3.36	0.00
7.00	0.77	0.00	0.00	58.00	8.50	3.36	0.00
8.00	0.97	0.00	0.00	59.00	8.50	3.36	0.00
9.00	1.24	0.00	0.00	60.00	8.50	3.36	0.00
10.00	1.61	0.00	0.00	61.00	8.50	3.36	0.00
11.00	2.12	0.05	0.10	62.00	8.50	3.36	0.00
12.00	4.25	0.73	0.98	63.00	8.50	3.36	0.00
13.00	6.37	1.91	3.36	64.00	8.50	3.36	0.00
14.00	6.89	2.24	1.58	65.00	8.50	3.36	0.00
15.00	7.26	2.49	0.93	66.00	8.50	3.36	0.00
16.00	7.53	2.67	0.66	67.00	8.50	3.36	0.00
17.00	7.73	2.81	0.49	68.00	8.50	3.36	0.00
18.00	7.89	2.92	0.39	69.00	8.50	3.36	0.00
19.00	8.02	3.01	0.31	70.00	8.50	3.36	0.00
20.00	8.13	3.10	0.28	71.00	8.50	3.36	0.00
21.00	8.24	3.17	0.25	72.00	8.50	3.36	0.00
22.00	8.34	3.24	0.23	73.00	8.50	3.36	0.00
23.00	8.42	3.31	0.21	74.00	8.50	3.36	0.00
24.00	8.50	3.36	0.19	75.00	8.50	3.36	0.00
25.00	8.50	3.36	0.05	76.00	8.50	3.36	0.00
26.00	8.50	3.36	0.01	77.00	8.50	3.36	0.00
27.00	8.50	3.36	0.00	78.00	8.50	3.36	0.00
28.00	8.50	3.36	0.00	79.00	8.50	3.36	0.00
29.00	8.50	3.36	0.00	80.00	8.50	3.36	0.00
30.00	8.50	3.36	0.00	81.00	8.50	3.36	0.00
31.00	8.50	3.36	0.00	82.00	8.50	3.36	0.00
32.00	8.50	3.36	0.00	83.00	8.50	3.36	0.00
33.00	8.50	3.36	0.00	84.00	8.50	3.36	0.00
34.00	8.50	3.36	0.00	85.00	8.50	3.36	0.00
35.00	8.50	3.36	0.00	86.00	8.50	3.36	0.00
36.00	8.50	3.36	0.00	87.00	8.50	3.36	0.00
37.00	8.50	3.36	0.00	88.00	8.50	3.36	0.00
38.00	8.50	3.36	0.00	89.00	8.50	3.36	0.00
39.00	8.50	3.36	0.00	90.00	8.50	3.36	0.00
40.00	8.50	3.36	0.00	91.00	8.50	3.36	0.00
41.00	8.50	3.36	0.00	92.00	8.50	3.36	0.00
42.00	8.50	3.36	0.00	93.00	8.50	3.36	0.00
43.00	8.50	3.36	0.00	94.00	8.50	3.36	0.00
44.00	8.50	3.36	0.00	95.00	8.50	3.36	0.00
45.00	8.50	3.36	0.00	96.00	8.50	3.36	0.00
46.00	8.50	3.36	0.00	97.00	8.50	3.36	0.00
47.00	8.50	3.36	0.00	98.00	8.50	3.36	0.00
48.00	8.50	3.36	0.00	99.00	8.50	3.36	0.00
49.00	8.50	3.36	0.00	100.00	8.50	3.36	0.00
50.00	8.50	3.36	0.00				

Summary for Subcatchment 47S: P-300 PERV

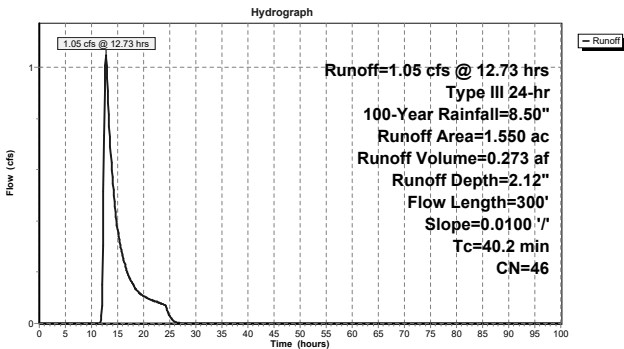
Runoff = 1.05 cfs @ 12.73 hrs, Volume= 0.273 af, Depth= 2.12"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	>75% Grass cover, Good, HSG B
0.900	39	>75% Grass cover, Good, HSG A
1.550	46	Weighted Average
1.550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 47S: P-300 PERV



Hydrograph for Subcatchment 47S: P-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	2.12	0.00
1.00	0.08	0.00	0.00	52.00	8.50	2.12	0.00
2.00	0.17	0.00	0.00	53.00	8.50	2.12	0.00
3.00	0.26	0.00	0.00	54.00	8.50	2.12	0.00
4.00	0.37	0.00	0.00	55.00	8.50	2.12	0.00
5.00	0.48	0.00	0.00	56.00	8.50	2.12	0.00
6.00	0.61	0.00	0.00	57.00	8.50	2.12	0.00
7.00	0.77	0.00	0.00	58.00	8.50	2.12	0.00
8.00	0.97	0.00	0.00	59.00	8.50	2.12	0.00
9.00	1.24	0.00	0.00	60.00	8.50	2.12	0.00
10.00	1.61	0.00	0.00	61.00	8.50	2.12	0.00
11.00	2.12	0.00	0.00	62.00	8.50	2.12	0.00
12.00	4.25	0.27	0.07	63.00	8.50	2.12	0.00
13.00	6.37	1.03	0.96	64.00	8.50	2.12	0.00
14.00	6.89	1.27	0.57	65.00	8.50	2.12	0.00
15.00	7.26	1.45	0.37	66.00	8.50	2.12	0.00
16.00	7.53	1.59	0.26	67.00	8.50	2.12	0.00
17.00	7.73	1.69	0.19	68.00	8.50	2.12	0.00
18.00	7.89	1.78	0.15	69.00	8.50	2.12	0.00
19.00	8.02	1.85	0.12	70.00	8.50	2.12	0.00
20.00	8.13	1.91	0.11	71.00	8.50	2.12	0.00
21.00	8.24	1.97	0.10	72.00	8.50	2.12	0.00
22.00	8.34	2.02	0.09	73.00	8.50	2.12	0.00
23.00	8.42	2.07	0.08	74.00	8.50	2.12	0.00
24.00	8.50	2.12	0.07	75.00	8.50	2.12	0.00
25.00	8.50	2.12	0.03	76.00	8.50	2.12	0.00
26.00	8.50	2.12	0.01	77.00	8.50	2.12	0.00
27.00	8.50	2.12	0.00	78.00	8.50	2.12	0.00
28.00	8.50	2.12	0.00	79.00	8.50	2.12	0.00
29.00	8.50	2.12	0.00	80.00	8.50	2.12	0.00
30.00	8.50	2.12	0.00	81.00	8.50	2.12	0.00
31.00	8.50	2.12	0.00	82.00	8.50	2.12	0.00
32.00	8.50	2.12	0.00	83.00	8.50	2.12	0.00
33.00	8.50	2.12	0.00	84.00	8.50	2.12	0.00
34.00	8.50	2.12	0.00	85.00	8.50	2.12	0.00
35.00	8.50	2.12	0.00	86.00	8.50	2.12	0.00
36.00	8.50	2.12	0.00	87.00	8.50	2.12	0.00
37.00	8.50	2.12	0.00	88.00	8.50	2.12	0.00
38.00	8.50	2.12	0.00	89.00	8.50	2.12	0.00
39.00	8.50	2.12	0.00	90.00	8.50	2.12	0.00
40.00	8.50	2.12	0.00	91.00	8.50	2.12	0.00
41.00	8.50	2.12	0.00	92.00	8.50	2.12	0.00
42.00	8.50	2.12	0.00	93.00	8.50	2.12	0.00
43.00	8.50	2.12	0.00	94.00	8.50	2.12	0.00
44.00	8.50	2.12	0.00	95.00	8.50	2.12	0.00
45.00	8.50	2.12	0.00	96.00	8.50	2.12	0.00
46.00	8.50	2.12	0.00	97.00	8.50	2.12	0.00
47.00	8.50	2.12	0.00	98.00	8.50	2.12	0.00
48.00	8.50	2.12	0.00	99.00	8.50	2.12	0.00
49.00	8.50	2.12	0.00	100.00	8.50	2.12	0.00
50.00	8.50	2.12	0.00				

Summary for Subcatchment 48S: P-400 PERV

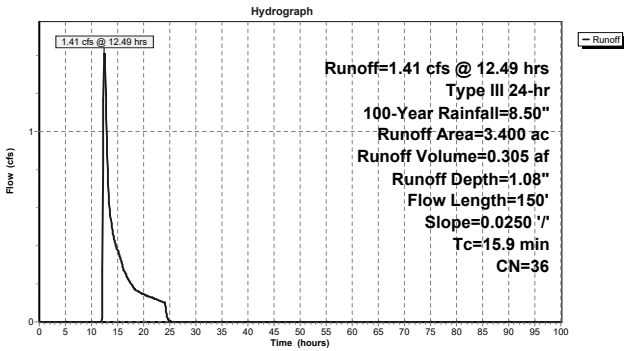
Runoff = 1.41 cfs @ 12.49 hrs, Volume= 0.305 af, Depth= 1.08"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.920	39	>75% Grass cover, Good, HSG A
3.400	36	Weighted Average
3.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 48S: P-400 PERV



Hydrograph for Subcatchment 48S: P-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	1.08	0.00
1.00	0.08	0.00	0.00	52.00	8.50	1.08	0.00
2.00	0.17	0.00	0.00	53.00	8.50	1.08	0.00
3.00	0.26	0.00	0.00	54.00	8.50	1.08	0.00
4.00	0.37	0.00	0.00	55.00	8.50	1.08	0.00
5.00	0.48	0.00	0.00	56.00	8.50	1.08	0.00
6.00	0.61	0.00	0.00	57.00	8.50	1.08	0.00
7.00	0.77	0.00	0.00	58.00	8.50	1.08	0.00
8.00	0.97	0.00	0.00	59.00	8.50	1.08	0.00
9.00	1.24	0.00	0.00	60.00	8.50	1.08	0.00
10.00	1.61	0.00	0.00	61.00	8.50	1.08	0.00
11.00	2.12	0.00	0.00	62.00	8.50	1.08	0.00
12.00	4.25	0.03	0.02	63.00	8.50	1.08	0.00
13.00	6.37	0.39	0.88	64.00	8.50	1.08	0.00
14.00	6.89	0.53	0.48	65.00	8.50	1.08	0.00
15.00	7.26	0.64	0.38	66.00	8.50	1.08	0.00
16.00	7.53	0.73	0.29	67.00	8.50	1.08	0.00
17.00	7.73	0.79	0.23	68.00	8.50	1.08	0.00
18.00	7.89	0.85	0.18	69.00	8.50	1.08	0.00
19.00	8.02	0.90	0.16	70.00	8.50	1.08	0.00
20.00	8.13	0.94	0.14	71.00	8.50	1.08	0.00
21.00	8.24	0.98	0.13	72.00	8.50	1.08	0.00
22.00	8.34	1.01	0.12	73.00	8.50	1.08	0.00
23.00	8.42	1.05	0.11	74.00	8.50	1.08	0.00
24.00	8.50	1.08	0.10	75.00	8.50	1.08	0.00
25.00	8.50	1.08	0.00	76.00	8.50	1.08	0.00
26.00	8.50	1.08	0.00	77.00	8.50	1.08	0.00
27.00	8.50	1.08	0.00	78.00	8.50	1.08	0.00
28.00	8.50	1.08	0.00	79.00	8.50	1.08	0.00
29.00	8.50	1.08	0.00	80.00	8.50	1.08	0.00
30.00	8.50	1.08	0.00	81.00	8.50	1.08	0.00
31.00	8.50	1.08	0.00	82.00	8.50	1.08	0.00
32.00	8.50	1.08	0.00	83.00	8.50	1.08	0.00
33.00	8.50	1.08	0.00	84.00	8.50	1.08	0.00
34.00	8.50	1.08	0.00	85.00	8.50	1.08	0.00
35.00	8.50	1.08	0.00	86.00	8.50	1.08	0.00
36.00	8.50	1.08	0.00	87.00	8.50	1.08	0.00
37.00	8.50	1.08	0.00	88.00	8.50	1.08	0.00
38.00	8.50	1.08	0.00	89.00	8.50	1.08	0.00
39.00	8.50	1.08	0.00	90.00	8.50	1.08	0.00
40.00	8.50	1.08	0.00	91.00	8.50	1.08	0.00
41.00	8.50	1.08	0.00	92.00	8.50	1.08	0.00
42.00	8.50	1.08	0.00	93.00	8.50	1.08	0.00
43.00	8.50	1.08	0.00	94.00	8.50	1.08	0.00
44.00	8.50	1.08	0.00	95.00	8.50	1.08	0.00
45.00	8.50	1.08	0.00	96.00	8.50	1.08	0.00
46.00	8.50	1.08	0.00	97.00	8.50	1.08	0.00
47.00	8.50	1.08	0.00	98.00	8.50	1.08	0.00
48.00	8.50	1.08	0.00	99.00	8.50	1.08	0.00
49.00	8.50	1.08	0.00	100.00	8.50	1.08	0.00
50.00	8.50	1.08	0.00				

Summary for Subcatchment 49S: P-100 IMP

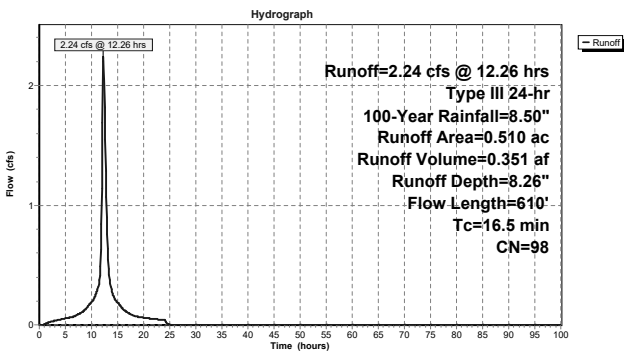
Runoff = 2.24 cfs @ 12.26 hrs, Volume= 0.351 af, Depth= 8.26"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.510	98	Unconnected pavement
0.510		100.00% Impervious Area
0.510		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 49S: P-100 IMP



Hydrograph for Subcatchment 49S: P-100 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	8.26	0.00
1.00	0.08	0.01	0.01	52.00	8.50	8.26	0.00
2.00	0.17	0.05	0.02	53.00	8.50	8.26	0.00
3.00	0.26	0.11	0.03	54.00	8.50	8.26	0.00
4.00	0.37	0.20	0.04	55.00	8.50	8.26	0.00
5.00	0.48	0.30	0.05	56.00	8.50	8.26	0.00
6.00	0.61	0.42	0.06	57.00	8.50	8.26	0.00
7.00	0.77	0.57	0.08	58.00	8.50	8.26	0.00
8.00	0.97	0.76	0.10	59.00	8.50	8.26	0.00
9.00	1.24	1.02	0.14	60.00	8.50	8.26	0.00
10.00	1.61	1.39	0.19	61.00	8.50	8.26	0.00
11.00	2.12	1.90	0.27	62.00	8.50	8.26	0.00
12.00	4.25	4.01	1.14	63.00	8.50	8.26	0.00
13.00	6.37	6.14	0.76	64.00	8.50	8.26	0.00
14.00	6.89	6.65	0.26	65.00	8.50	8.26	0.00
15.00	7.26	7.02	0.19	66.00	8.50	8.26	0.00
16.00	7.53	7.29	0.13	67.00	8.50	8.26	0.00
17.00	7.73	7.49	0.10	68.00	8.50	8.26	0.00
18.00	7.89	7.65	0.08	69.00	8.50	8.26	0.00
19.00	8.02	7.78	0.07	70.00	8.50	8.26	0.00
20.00	8.13	7.89	0.06	71.00	8.50	8.26	0.00
21.00	8.24	8.00	0.05	72.00	8.50	8.26	0.00
22.00	8.34	8.10	0.05	73.00	8.50	8.26	0.00
23.00	8.42	8.18	0.04	74.00	8.50	8.26	0.00
24.00	8.50	8.26	0.04	75.00	8.50	8.26	0.00
25.00	8.50	8.26	0.00	76.00	8.50	8.26	0.00
26.00	8.50	8.26	0.00	77.00	8.50	8.26	0.00
27.00	8.50	8.26	0.00	78.00	8.50	8.26	0.00
28.00	8.50	8.26	0.00	79.00	8.50	8.26	0.00
29.00	8.50	8.26	0.00	80.00	8.50	8.26	0.00
30.00	8.50	8.26	0.00	81.00	8.50	8.26	0.00
31.00	8.50	8.26	0.00	82.00	8.50	8.26	0.00
32.00	8.50	8.26	0.00	83.00	8.50	8.26	0.00
33.00	8.50	8.26	0.00	84.00	8.50	8.26	0.00
34.00	8.50	8.26	0.00	85.00	8.50	8.26	0.00
35.00	8.50	8.26	0.00	86.00	8.50	8.26	0.00
36.00	8.50	8.26	0.00	87.00	8.50	8.26	0.00
37.00	8.50	8.26	0.00	88.00	8.50	8.26	0.00
38.00	8.50	8.26	0.00	89.00	8.50	8.26	0.00
39.00	8.50	8.26	0.00	90.00	8.50	8.26	0.00
40.00	8.50	8.26	0.00	91.00	8.50	8.26	0.00
41.00	8.50	8.26	0.00	92.00	8.50	8.26	0.00
42.00	8.50	8.26	0.00	93.00	8.50	8.26	0.00
43.00	8.50	8.26	0.00	94.00	8.50	8.26	0.00
44.00	8.50	8.26	0.00	95.00	8.50	8.26	0.00
45.00	8.50	8.26	0.00	96.00	8.50	8.26	0.00
46.00	8.50	8.26	0.00	97.00	8.50	8.26	0.00
47.00	8.50	8.26	0.00	98.00	8.50	8.26	0.00
48.00	8.50	8.26	0.00	99.00	8.50	8.26	0.00
49.00	8.50	8.26	0.00	100.00	8.50	8.26	0.00
50.00	8.50	8.26	0.00				

Summary for Subcatchment 50S: P-200 IMP

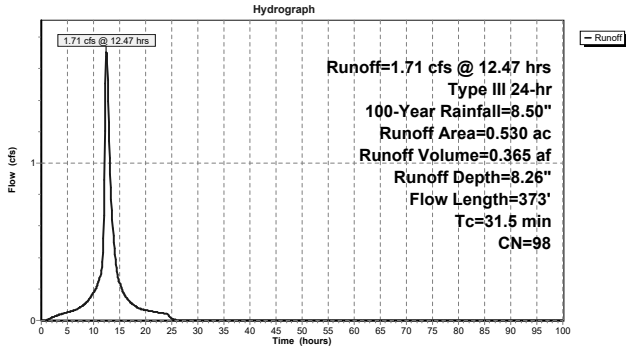
Runoff = 1.71 cfs @ 12.47 hrs, Volume= 0.365 af, Depth= 8.26"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
* 0.530	98	Unconnected pavement
0.530		100.00% Impervious Area
0.530		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373	Total			

Subcatchment 50S: P-200 IMP



Hydrograph for Subcatchment 50S: P-200 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	8.26	0.00
1.00	0.08	0.01	0.00	52.00	8.50	8.26	0.00
2.00	0.17	0.05	0.02	53.00	8.50	8.26	0.00
3.00	0.26	0.11	0.03	54.00	8.50	8.26	0.00
4.00	0.37	0.20	0.04	55.00	8.50	8.26	0.00
5.00	0.48	0.30	0.05	56.00	8.50	8.26	0.00
6.00	0.61	0.42	0.06	57.00	8.50	8.26	0.00
7.00	0.77	0.57	0.07	58.00	8.50	8.26	0.00
8.00	0.97	0.76	0.10	59.00	8.50	8.26	0.00
9.00	1.24	1.02	0.13	60.00	8.50	8.26	0.00
10.00	1.61	1.39	0.18	61.00	8.50	8.26	0.00
11.00	2.12	1.90	0.25	62.00	8.50	8.26	0.00
12.00	4.25	4.01	0.67	63.00	8.50	8.26	0.00
13.00	6.37	6.14	1.14	64.00	8.50	8.26	0.00
14.00	6.89	6.65	0.46	65.00	8.50	8.26	0.00
15.00	7.26	7.02	0.24	66.00	8.50	8.26	0.00
16.00	7.53	7.29	0.16	67.00	8.50	8.26	0.00
17.00	7.73	7.49	0.12	68.00	8.50	8.26	0.00
18.00	7.89	7.65	0.09	69.00	8.50	8.26	0.00
19.00	8.02	7.78	0.07	70.00	8.50	8.26	0.00
20.00	8.13	7.89	0.06	71.00	8.50	8.26	0.00
21.00	8.24	8.00	0.06	72.00	8.50	8.26	0.00
22.00	8.34	8.10	0.05	73.00	8.50	8.26	0.00
23.00	8.42	8.18	0.05	74.00	8.50	8.26	0.00
24.00	8.50	8.26	0.04	75.00	8.50	8.26	0.00
25.00	8.50	8.26	0.01	76.00	8.50	8.26	0.00
26.00	8.50	8.26	0.00	77.00	8.50	8.26	0.00
27.00	8.50	8.26	0.00	78.00	8.50	8.26	0.00
28.00	8.50	8.26	0.00	79.00	8.50	8.26	0.00
29.00	8.50	8.26	0.00	80.00	8.50	8.26	0.00
30.00	8.50	8.26	0.00	81.00	8.50	8.26	0.00
31.00	8.50	8.26	0.00	82.00	8.50	8.26	0.00
32.00	8.50	8.26	0.00	83.00	8.50	8.26	0.00
33.00	8.50	8.26	0.00	84.00	8.50	8.26	0.00
34.00	8.50	8.26	0.00	85.00	8.50	8.26	0.00
35.00	8.50	8.26	0.00	86.00	8.50	8.26	0.00
36.00	8.50	8.26	0.00	87.00	8.50	8.26	0.00
37.00	8.50	8.26	0.00	88.00	8.50	8.26	0.00
38.00	8.50	8.26	0.00	89.00	8.50	8.26	0.00
39.00	8.50	8.26	0.00	90.00	8.50	8.26	0.00
40.00	8.50	8.26	0.00	91.00	8.50	8.26	0.00
41.00	8.50	8.26	0.00	92.00	8.50	8.26	0.00
42.00	8.50	8.26	0.00	93.00	8.50	8.26	0.00
43.00	8.50	8.26	0.00	94.00	8.50	8.26	0.00
44.00	8.50	8.26	0.00	95.00	8.50	8.26	0.00
45.00	8.50	8.26	0.00	96.00	8.50	8.26	0.00
46.00	8.50	8.26	0.00	97.00	8.50	8.26	0.00
47.00	8.50	8.26	0.00	98.00	8.50	8.26	0.00
48.00	8.50	8.26	0.00	99.00	8.50	8.26	0.00
49.00	8.50	8.26	0.00	100.00	8.50	8.26	0.00
50.00	8.50	8.26	0.00				

Summary for Subcatchment 51S: P-300 IMP

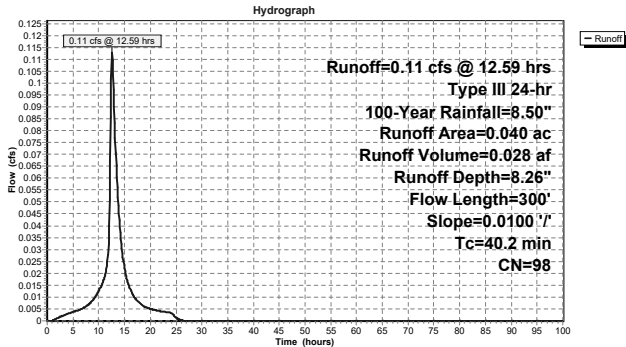
Runoff = 0.11 cfs @ 12.59 hrs, Volume= 0.028 af, Depth= 8.26"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
* 0.040	98	Unconnected pavement
0.040		100.00% Impervious Area
0.040		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300	Total			

Subcatchment 51S: P-300 IMP



Hydrograph for Subcatchment 51S: P-300 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	8.26	0.00
1.00	0.08	0.01	0.00	52.00	8.50	8.26	0.00
2.00	0.17	0.05	0.00	53.00	8.50	8.26	0.00
3.00	0.26	0.11	0.00	54.00	8.50	8.26	0.00
4.00	0.37	0.20	0.00	55.00	8.50	8.26	0.00
5.00	0.48	0.30	0.00	56.00	8.50	8.26	0.00
6.00	0.61	0.42	0.00	57.00	8.50	8.26	0.00
7.00	0.77	0.57	0.01	58.00	8.50	8.26	0.00
8.00	0.97	0.76	0.01	59.00	8.50	8.26	0.00
9.00	1.24	1.02	0.01	60.00	8.50	8.26	0.00
10.00	1.61	1.39	0.01	61.00	8.50	8.26	0.00
11.00	2.12	1.90	0.02	62.00	8.50	8.26	0.00
12.00	4.25	4.01	0.04	63.00	8.50	8.26	0.00
13.00	6.37	6.14	0.09	64.00	8.50	8.26	0.00
14.00	6.89	6.65	0.04	65.00	8.50	8.26	0.00
15.00	7.26	7.02	0.02	66.00	8.50	8.26	0.00
16.00	7.53	7.29	0.01	67.00	8.50	8.26	0.00
17.00	7.73	7.49	0.01	68.00	8.50	8.26	0.00
18.00	7.89	7.65	0.01	69.00	8.50	8.26	0.00
19.00	8.02	7.78	0.01	70.00	8.50	8.26	0.00
20.00	8.13	7.89	0.01	71.00	8.50	8.26	0.00
21.00	8.24	8.00	0.00	72.00	8.50	8.26	0.00
22.00	8.34	8.10	0.00	73.00	8.50	8.26	0.00
23.00	8.42	8.18	0.00	74.00	8.50	8.26	0.00
24.00	8.50	8.26	0.00	75.00	8.50	8.26	0.00
25.00	8.50	8.26	0.00	76.00	8.50	8.26	0.00
26.00	8.50	8.26	0.00	77.00	8.50	8.26	0.00
27.00	8.50	8.26	0.00	78.00	8.50	8.26	0.00
28.00	8.50	8.26	0.00	79.00	8.50	8.26	0.00
29.00	8.50	8.26	0.00	80.00	8.50	8.26	0.00
30.00	8.50	8.26	0.00	81.00	8.50	8.26	0.00
31.00	8.50	8.26	0.00	82.00	8.50	8.26	0.00
32.00	8.50	8.26	0.00	83.00	8.50	8.26	0.00
33.00	8.50	8.26	0.00	84.00	8.50	8.26	0.00
34.00	8.50	8.26	0.00	85.00	8.50	8.26	0.00
35.00	8.50	8.26	0.00	86.00	8.50	8.26	0.00
36.00	8.50	8.26	0.00	87.00	8.50	8.26	0.00
37.00	8.50	8.26	0.00	88.00	8.50	8.26	0.00
38.00	8.50	8.26	0.00	89.00	8.50	8.26	0.00
39.00	8.50	8.26	0.00	90.00	8.50	8.26	0.00
40.00	8.50	8.26	0.00	91.00	8.50	8.26	0.00
41.00	8.50	8.26	0.00	92.00	8.50	8.26	0.00
42.00	8.50	8.26	0.00	93.00	8.50	8.26	0.00
43.00	8.50	8.26	0.00	94.00	8.50	8.26	0.00
44.00	8.50	8.26	0.00	95.00	8.50	8.26	0.00
45.00	8.50	8.26	0.00	96.00	8.50	8.26	0.00
46.00	8.50	8.26	0.00	97.00	8.50	8.26	0.00
47.00	8.50	8.26	0.00	98.00	8.50	8.26	0.00
48.00	8.50	8.26	0.00	99.00	8.50	8.26	0.00
49.00	8.50	8.26	0.00	100.00	8.50	8.26	0.00
50.00	8.50	8.26	0.00				

Summary for Subcatchment 52S: P-400 IMP

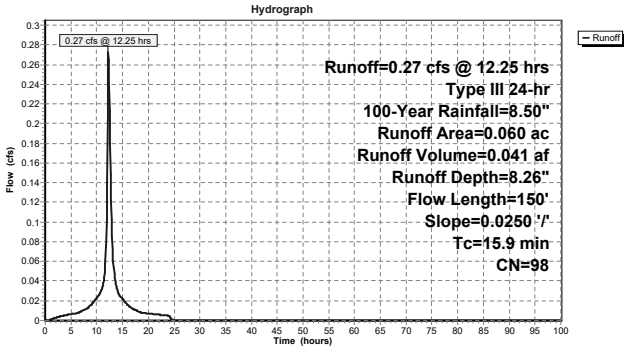
Runoff = 0.27 cfs @ 12.25 hrs, Volume= 0.041 af, Depth= 8.26"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
0.060	98	Unconnected pavement
0.060		100.00% Impervious Area
0.060		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150	Total			

Subcatchment 52S: P-400 IMP



Hydrograph for Subcatchment 52S: P-400 IMP

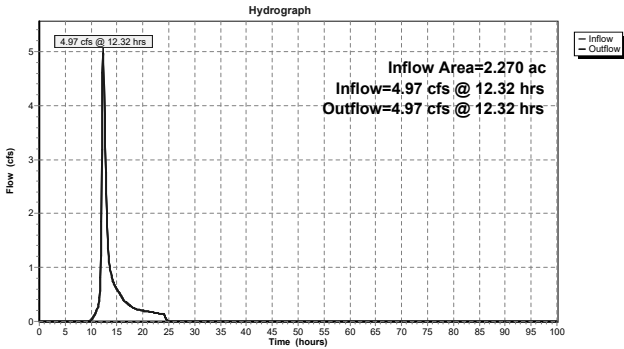
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	8.50	8.26	0.00
1.00	0.08	0.01	0.00	52.00	8.50	8.26	0.00
2.00	0.17	0.05	0.00	53.00	8.50	8.26	0.00
3.00	0.26	0.11	0.00	54.00	8.50	8.26	0.00
4.00	0.37	0.20	0.01	55.00	8.50	8.26	0.00
5.00	0.48	0.30	0.01	56.00	8.50	8.26	0.00
6.00	0.61	0.42	0.01	57.00	8.50	8.26	0.00
7.00	0.77	0.57	0.01	58.00	8.50	8.26	0.00
8.00	0.97	0.76	0.01	59.00	8.50	8.26	0.00
9.00	1.24	1.02	0.02	60.00	8.50	8.26	0.00
10.00	1.61	1.39	0.02	61.00	8.50	8.26	0.00
11.00	2.12	1.90	0.03	62.00	8.50	8.26	0.00
12.00	4.25	4.01	0.14	63.00	8.50	8.26	0.00
13.00	6.37	6.14	0.09	64.00	8.50	8.26	0.00
14.00	6.89	6.65	0.03	65.00	8.50	8.26	0.00
15.00	7.26	7.02	0.02	66.00	8.50	8.26	0.00
16.00	7.53	7.29	0.02	67.00	8.50	8.26	0.00
17.00	7.73	7.49	0.01	68.00	8.50	8.26	0.00
18.00	7.89	7.65	0.01	69.00	8.50	8.26	0.00
19.00	8.02	7.78	0.01	70.00	8.50	8.26	0.00
20.00	8.13	7.89	0.01	71.00	8.50	8.26	0.00
21.00	8.24	8.00	0.01	72.00	8.50	8.26	0.00
22.00	8.34	8.10	0.01	73.00	8.50	8.26	0.00
23.00	8.42	8.18	0.01	74.00	8.50	8.26	0.00
24.00	8.50	8.26	0.00	75.00	8.50	8.26	0.00
25.00	8.50	8.26	0.00	76.00	8.50	8.26	0.00
26.00	8.50	8.26	0.00	77.00	8.50	8.26	0.00
27.00	8.50	8.26	0.00	78.00	8.50	8.26	0.00
28.00	8.50	8.26	0.00	79.00	8.50	8.26	0.00
29.00	8.50	8.26	0.00	80.00	8.50	8.26	0.00
30.00	8.50	8.26	0.00	81.00	8.50	8.26	0.00
31.00	8.50	8.26	0.00	82.00	8.50	8.26	0.00
32.00	8.50	8.26	0.00	83.00	8.50	8.26	0.00
33.00	8.50	8.26	0.00	84.00	8.50	8.26	0.00
34.00	8.50	8.26	0.00	85.00	8.50	8.26	0.00
35.00	8.50	8.26	0.00	86.00	8.50	8.26	0.00
36.00	8.50	8.26	0.00	87.00	8.50	8.26	0.00
37.00	8.50	8.26	0.00	88.00	8.50	8.26	0.00
38.00	8.50	8.26	0.00	89.00	8.50	8.26	0.00
39.00	8.50	8.26	0.00	90.00	8.50	8.26	0.00
40.00	8.50	8.26	0.00	91.00	8.50	8.26	0.00
41.00	8.50	8.26	0.00	92.00	8.50	8.26	0.00
42.00	8.50	8.26	0.00	93.00	8.50	8.26	0.00
43.00	8.50	8.26	0.00	94.00	8.50	8.26	0.00
44.00	8.50	8.26	0.00	95.00	8.50	8.26	0.00
45.00	8.50	8.26	0.00	96.00	8.50	8.26	0.00
46.00	8.50	8.26	0.00	97.00	8.50	8.26	0.00
47.00	8.50	8.26	0.00	98.00	8.50	8.26	0.00
48.00	8.50	8.26	0.00	99.00	8.50	8.26	0.00
49.00	8.50	8.26	0.00	100.00	8.50	8.26	0.00
50.00	8.50	8.26	0.00				

Summary for Reach 6R: E-100

Inflow Area = 2.270 ac, 0.00% Impervious, Inflow Depth = 3.71" for 100-Year event
 Inflow = 4.97 cfs @ 12.32 hrs, Volume= 0.702 af
 Outflow = 4.97 cfs @ 12.32 hrs, Volume= 0.702 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 6R: E-100



Hydrograph for Reach 6R: E-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.03	0.03	0.00	61.00	0.00	0.00	0.00
11.00	0.18	0.18	0.00	62.00	0.00	0.00	0.00
12.00	1.85	1.85	0.00	63.00	0.00	0.00	0.00
13.00	2.04	2.04	0.00	64.00	0.00	0.00	0.00
14.00	0.81	0.81	0.00	65.00	0.00	0.00	0.00
15.00	0.59	0.59	0.00	66.00	0.00	0.00	0.00
16.00	0.44	0.44	0.00	67.00	0.00	0.00	0.00
17.00	0.33	0.33	0.00	68.00	0.00	0.00	0.00
18.00	0.26	0.26	0.00	69.00	0.00	0.00	0.00
19.00	0.22	0.22	0.00	70.00	0.00	0.00	0.00
20.00	0.20	0.20	0.00	71.00	0.00	0.00	0.00
21.00	0.18	0.18	0.00	72.00	0.00	0.00	0.00
22.00	0.17	0.17	0.00	73.00	0.00	0.00	0.00
23.00	0.15	0.15	0.00	74.00	0.00	0.00	0.00
24.00	0.13	0.13	0.00	75.00	0.00	0.00	0.00
25.00	0.01	0.01	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

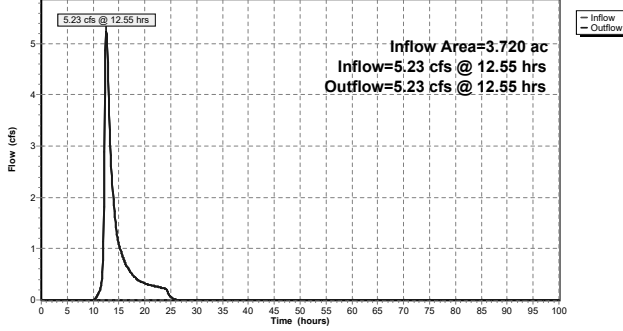
Summary for Reach 7R: E-200

Inflow Area = 3.720 ac, 0.00% Impervious, Inflow Depth = 3.36" for 100-Year event
 Inflow = 5.23 cfs @ 12.55 hrs, Volume= 1.042 af
 Outflow = 5.23 cfs @ 12.55 hrs, Volume= 1.042 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 7R: E-200

Hydrograph



Hydrograph for Reach 7R: E-200

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.12	1.12	0.12	62.00	0.00		0.00
12.00	1.14	1.14	1.14	63.00	0.00		0.00
13.00	3.92	3.92	3.92	64.00	0.00		0.00
14.00	1.84	1.84	1.84	65.00	0.00		0.00
15.00	1.08	1.08	1.08	66.00	0.00		0.00
16.00	0.77	0.77	0.77	67.00	0.00		0.00
17.00	0.57	0.57	0.57	68.00	0.00		0.00
18.00	0.45	0.45	0.45	69.00	0.00		0.00
19.00	0.37	0.37	0.37	70.00	0.00		0.00
20.00	0.32	0.32	0.32	71.00	0.00		0.00
21.00	0.29	0.29	0.29	72.00	0.00		0.00
22.00	0.27	0.27	0.27	73.00	0.00		0.00
23.00	0.24	0.24	0.24	74.00	0.00		0.00
24.00	0.22	0.22	0.22	75.00	0.00		0.00
25.00	0.06	0.06	0.06	76.00	0.00		0.00
26.00	0.01	0.01	0.01	77.00	0.00		0.00
27.00	0.00	0.00	0.00	78.00	0.00		0.00
28.00	0.00	0.00	0.00	79.00	0.00		0.00
29.00	0.00	0.00	0.00	80.00	0.00		0.00
30.00	0.00	0.00	0.00	81.00	0.00		0.00
31.00	0.00	0.00	0.00	82.00	0.00		0.00
32.00	0.00	0.00	0.00	83.00	0.00		0.00
33.00	0.00	0.00	0.00	84.00	0.00		0.00
34.00	0.00	0.00	0.00	85.00	0.00		0.00
35.00	0.00	0.00	0.00	86.00	0.00		0.00
36.00	0.00	0.00	0.00	87.00	0.00		0.00
37.00	0.00	0.00	0.00	88.00	0.00		0.00
38.00	0.00	0.00	0.00	89.00	0.00		0.00
39.00	0.00	0.00	0.00	90.00	0.00		0.00
40.00	0.00	0.00	0.00	91.00	0.00		0.00
41.00	0.00	0.00	0.00	92.00	0.00		0.00
42.00	0.00	0.00	0.00	93.00	0.00		0.00
43.00	0.00	0.00	0.00	94.00	0.00		0.00
44.00	0.00	0.00	0.00	95.00	0.00		0.00
45.00	0.00	0.00	0.00	96.00	0.00		0.00
46.00	0.00	0.00	0.00	97.00	0.00		0.00
47.00	0.00	0.00	0.00	98.00	0.00		0.00
48.00	0.00	0.00	0.00	99.00	0.00		0.00
49.00	0.00	0.00	0.00	100.00	0.00		0.00
50.00	0.00	0.00	0.00				

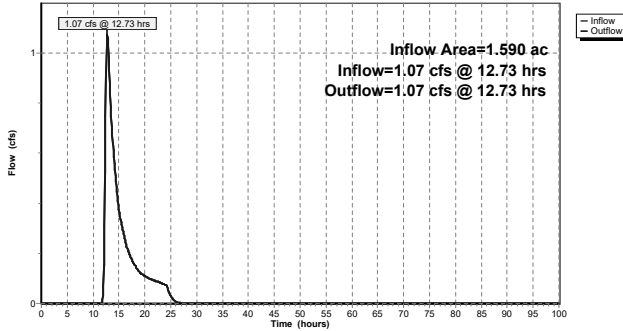
Summary for Reach 8R: E-300

Inflow Area = 1.590 ac, 0.00% Impervious, Inflow Depth = 2.12" for 100-Year event
 Inflow = 1.07 cfs @ 12.73 hrs, Volume= 0.280 af
 Outflow = 1.07 cfs @ 12.73 hrs, Volume= 0.280 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 8R: E-300

Hydrograph



Hydrograph for Reach 8R: E-300

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.07	0.07	0.07	63.00	0.00		0.00
13.00	0.98	0.98	0.98	64.00	0.00		0.00
14.00	0.58	0.58	0.58	65.00	0.00		0.00
15.00	0.38	0.38	0.38	66.00	0.00		0.00
16.00	0.27	0.27	0.27	67.00	0.00		0.00
17.00	0.20	0.20	0.20	68.00	0.00		0.00
18.00	0.15	0.15	0.15	69.00	0.00		0.00
19.00	0.12	0.12	0.12	70.00	0.00		0.00
20.00	0.11	0.11	0.11	71.00	0.00		0.00
21.00	0.10	0.10	0.10	72.00	0.00		0.00
22.00	0.09	0.09	0.09	73.00	0.00		0.00
23.00	0.08	0.08	0.08	74.00	0.00		0.00
24.00	0.07	0.07	0.07	75.00	0.00		0.00
25.00	0.03	0.03	0.03	76.00	0.00		0.00
26.00	0.01	0.01	0.01	77.00	0.00		0.00
27.00	0.00	0.00	0.00	78.00	0.00		0.00
28.00	0.00	0.00	0.00	79.00	0.00		0.00
29.00	0.00	0.00	0.00	80.00	0.00		0.00
30.00	0.00	0.00	0.00	81.00	0.00		0.00
31.00	0.00	0.00	0.00	82.00	0.00		0.00
32.00	0.00	0.00	0.00	83.00	0.00		0.00
33.00	0.00	0.00	0.00	84.00	0.00		0.00
34.00	0.00	0.00	0.00	85.00	0.00		0.00
35.00	0.00	0.00	0.00	86.00	0.00		0.00
36.00	0.00	0.00	0.00	87.00	0.00		0.00
37.00	0.00	0.00	0.00	88.00	0.00		0.00
38.00	0.00	0.00	0.00	89.00	0.00		0.00
39.00	0.00	0.00	0.00	90.00	0.00		0.00
40.00	0.00	0.00	0.00	91.00	0.00		0.00
41.00	0.00	0.00	0.00	92.00	0.00		0.00
42.00	0.00	0.00	0.00	93.00	0.00		0.00
43.00	0.00	0.00	0.00	94.00	0.00		0.00
44.00	0.00	0.00	0.00	95.00	0.00		0.00
45.00	0.00	0.00	0.00	96.00	0.00		0.00
46.00	0.00	0.00	0.00	97.00	0.00		0.00
47.00	0.00	0.00	0.00	98.00	0.00		0.00
48.00	0.00	0.00	0.00	99.00	0.00		0.00
49.00	0.00	0.00	0.00	100.00	0.00		0.00
50.00	0.00	0.00	0.00				

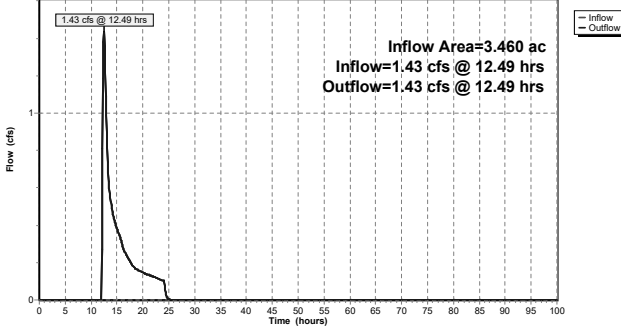
Summary for Reach 22R: E-400

Inflow Area = 3.460 ac, 0.00% Impervious, Inflow Depth = 1.08" for 100-Year event
 Inflow = 1.43 cfs @ 12.49 hrs, Volume= 0.310 af
 Outflow = 1.43 cfs @ 12.49 hrs, Volume= 0.310 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 22R: E-400

Hydrograph



Hydrograph for Reach 22R: E-400

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.02		0.02	63.00	0.00		0.00
13.00	0.90		0.90	64.00	0.00		0.00
14.00	0.49		0.49	65.00	0.00		0.00
15.00	0.38		0.38	66.00	0.00		0.00
16.00	0.30		0.30	67.00	0.00		0.00
17.00	0.23		0.23	68.00	0.00		0.00
18.00	0.19		0.19	69.00	0.00		0.00
19.00	0.16		0.16	70.00	0.00		0.00
20.00	0.15		0.15	71.00	0.00		0.00
21.00	0.14		0.14	72.00	0.00		0.00
22.00	0.13		0.13	73.00	0.00		0.00
23.00	0.11		0.11	74.00	0.00		0.00
24.00	0.10		0.10	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

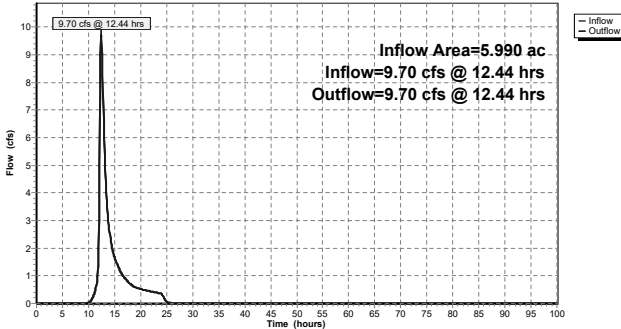
Summary for Reach 23R: E-POA "A"

Inflow Area = 5.990 ac, 0.00% Impervious, Inflow Depth = 3.50" for 100-Year event
 Inflow = 9.70 cfs @ 12.44 hrs, Volume= 1.745 af
 Outflow = 9.70 cfs @ 12.44 hrs, Volume= 1.745 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 23R: E-POA "A"

Hydrograph



Hydrograph for Reach 23R: E-POA "A"

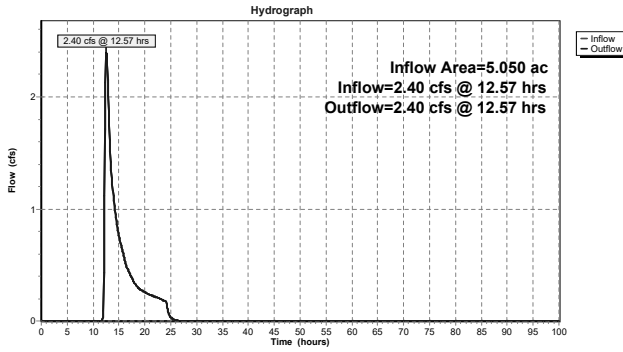
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.03		0.03	61.00	0.00		0.00
11.00	0.30		0.30	62.00	0.00		0.00
12.00	2.99		2.99	63.00	0.00		0.00
13.00	5.96		5.96	64.00	0.00		0.00
14.00	2.65		2.65	65.00	0.00		0.00
15.00	1.67		1.67	66.00	0.00		0.00
16.00	1.20		1.20	67.00	0.00		0.00
17.00	0.90		0.90	68.00	0.00		0.00
18.00	0.71		0.71	69.00	0.00		0.00
19.00	0.59		0.59	70.00	0.00		0.00
20.00	0.52		0.52	71.00	0.00		0.00
21.00	0.48		0.48	72.00	0.00		0.00
22.00	0.43		0.43	73.00	0.00		0.00
23.00	0.39		0.39	74.00	0.00		0.00
24.00	0.35		0.35	75.00	0.00		0.00
25.00	0.07		0.07	76.00	0.00		0.00
26.00	0.01		0.01	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 25R: E-POA "B"

Inflow Area = 5.050 ac, 0.00% Impervious, Inflow Depth = 1.40" for 100-Year event
 Inflow = 2.40 cfs @ 12.57 hrs, Volume= 0.591 af
 Outflow = 2.40 cfs @ 12.57 hrs, Volume= 0.591 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 25R: E-POA "B"



Hydrograph for Reach 25R: E-POA "B"

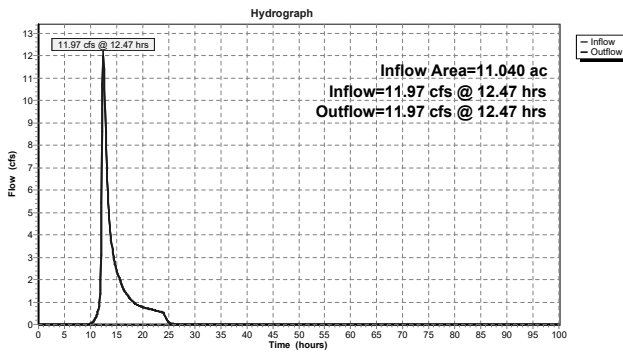
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
12.00	0.09	0.09	0.09	63.00	0.00	0.00	0.00
13.00	1.88	1.88	1.88	64.00	0.00	0.00	0.00
14.00	1.07	1.07	1.07	65.00	0.00	0.00	0.00
15.00	0.76	0.76	0.76	66.00	0.00	0.00	0.00
16.00	0.57	0.57	0.57	67.00	0.00	0.00	0.00
17.00	0.43	0.43	0.43	68.00	0.00	0.00	0.00
18.00	0.34	0.34	0.34	69.00	0.00	0.00	0.00
19.00	0.29	0.29	0.29	70.00	0.00	0.00	0.00
20.00	0.26	0.26	0.26	71.00	0.00	0.00	0.00
21.00	0.23	0.23	0.23	72.00	0.00	0.00	0.00
22.00	0.22	0.22	0.22	73.00	0.00	0.00	0.00
23.00	0.20	0.20	0.20	74.00	0.00	0.00	0.00
24.00	0.18	0.18	0.18	75.00	0.00	0.00	0.00
25.00	0.18	0.18	0.18	76.00	0.00	0.00	0.00
26.00	0.01	0.01	0.01	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Reach 26R: E-POA

Inflow Area = 11.040 ac, 0.00% Impervious, Inflow Depth = 2.54" for 100-Year event
 Inflow = 11.97 cfs @ 12.47 hrs, Volume= 2.335 af
 Outflow = 11.97 cfs @ 12.47 hrs, Volume= 2.335 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 26R: E-POA



Hydrograph for Reach 26R: E-POA

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
10.00	0.03	0.03	0.03	61.00	0.00	0.00	0.00
11.00	0.30	0.30	0.30	62.00	0.00	0.00	0.00
12.00	3.08	3.08	3.08	63.00	0.00	0.00	0.00
13.00	7.83	7.83	7.83	64.00	0.00	0.00	0.00
14.00	3.73	3.73	3.73	65.00	0.00	0.00	0.00
15.00	2.43	2.43	2.43	66.00	0.00	0.00	0.00
16.00	1.77	1.77	1.77	67.00	0.00	0.00	0.00
17.00	1.33	1.33	1.33	68.00	0.00	0.00	0.00
18.00	1.05	1.05	1.05	69.00	0.00	0.00	0.00
19.00	0.87	0.87	0.87	70.00	0.00	0.00	0.00
20.00	0.78	0.78	0.78	71.00	0.00	0.00	0.00
21.00	0.71	0.71	0.71	72.00	0.00	0.00	0.00
22.00	0.65	0.65	0.65	73.00	0.00	0.00	0.00
23.00	0.59	0.59	0.59	74.00	0.00	0.00	0.00
24.00	0.53	0.53	0.53	75.00	0.00	0.00	0.00
25.00	0.10	0.10	0.10	76.00	0.00	0.00	0.00
26.00	0.02	0.02	0.02	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

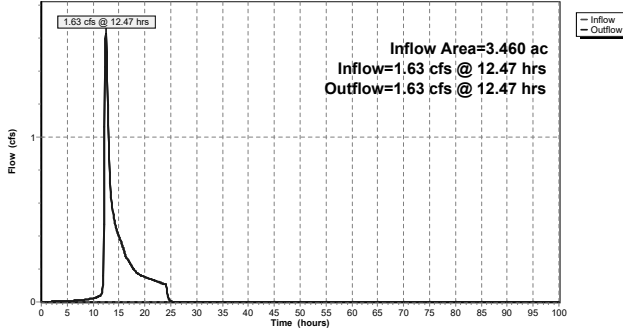
Summary for Reach 38R: P-400

Inflow Area = 3.460 ac, 1.73% Impervious, Inflow Depth = 1.20" for 100-Year event
 Inflow = 1.63 cfs @ 12.47 hrs, Volume= 0.346 af
 Outflow = 1.63 cfs @ 12.47 hrs, Volume= 0.346 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 38R: P-400

Hydrograph



Hydrograph for Reach 38R: P-400

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
4.00	0.01	0.01	0.01	55.00	0.00	0.00	0.00
5.00	0.01	0.01	0.01	56.00	0.00	0.00	0.00
6.00	0.01	0.01	0.01	57.00	0.00	0.00	0.00
7.00	0.01	0.01	0.01	58.00	0.00	0.00	0.00
8.00	0.01	0.01	0.01	59.00	0.00	0.00	0.00
9.00	0.02	0.02	0.02	60.00	0.00	0.00	0.00
10.00	0.02	0.02	0.02	61.00	0.00	0.00	0.00
11.00	0.03	0.03	0.03	62.00	0.00	0.00	0.00
12.00	0.16	0.16	0.16	63.00	0.00	0.00	0.00
13.00	0.97	0.97	0.97	64.00	0.00	0.00	0.00
14.00	0.51	0.51	0.51	65.00	0.00	0.00	0.00
15.00	0.40	0.40	0.40	66.00	0.00	0.00	0.00
16.00	0.31	0.31	0.31	67.00	0.00	0.00	0.00
17.00	0.24	0.24	0.24	68.00	0.00	0.00	0.00
18.00	0.19	0.19	0.19	69.00	0.00	0.00	0.00
19.00	0.17	0.17	0.17	70.00	0.00	0.00	0.00
20.00	0.15	0.15	0.15	71.00	0.00	0.00	0.00
21.00	0.14	0.14	0.14	72.00	0.00	0.00	0.00
22.00	0.13	0.13	0.13	73.00	0.00	0.00	0.00
23.00	0.12	0.12	0.12	74.00	0.00	0.00	0.00
24.00	0.11	0.11	0.11	75.00	0.00	0.00	0.00
25.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

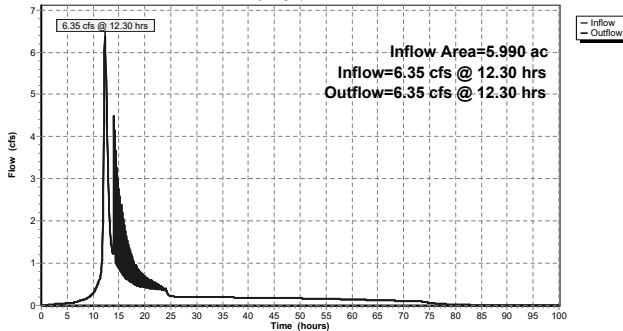
Summary for Reach 39R: P-POA "A"

Inflow Area = 5.990 ac, 17.36% Impervious, Inflow Depth = 4.32" for 100-Year event
 Inflow = 6.35 cfs @ 12.30 hrs, Volume= 2.157 af
 Outflow = 6.35 cfs @ 12.30 hrs, Volume= 2.157 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 39R: P-POA "A"

Hydrograph



Hydrograph for Reach 39R: P-POA "A"

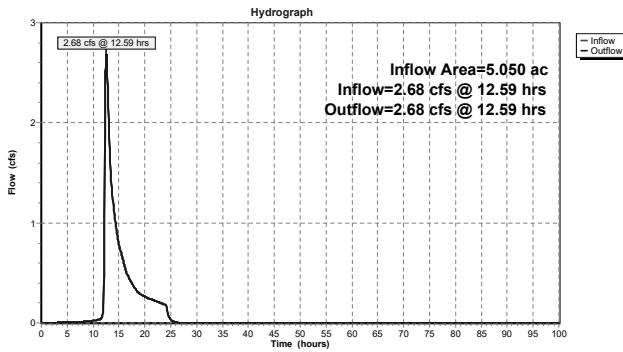
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.17	0.17	0.17
1.00	0.01	0.01	0.01	52.00	0.17	0.17	0.17
2.00	0.02	0.02	0.02	53.00	0.17	0.17	0.17
3.00	0.03	0.03	0.03	54.00	0.17	0.17	0.17
4.00	0.04	0.04	0.04	55.00	0.16	0.16	0.16
5.00	0.05	0.05	0.05	56.00	0.16	0.16	0.16
6.00	0.06	0.06	0.06	57.00	0.15	0.15	0.15
7.00	0.09	0.09	0.09	58.00	0.15	0.15	0.15
8.00	0.13	0.13	0.13	59.00	0.14	0.14	0.14
9.00	0.19	0.19	0.19	60.00	0.14	0.14	0.14
10.00	0.29	0.29	0.29	61.00	0.14	0.14	0.14
11.00	0.53	0.53	0.53	62.00	0.13	0.13	0.13
12.00	2.76	2.76	2.76	63.00	0.13	0.13	0.13
13.00	2.56	2.56	2.56	64.00	0.12	0.12	0.12
14.00	4.49	4.49	4.49	65.00	0.12	0.12	0.12
15.00	2.77	2.77	2.77	66.00	0.12	0.12	0.12
16.00	1.91	1.91	1.91	67.00	0.11	0.11	0.11
17.00	1.37	1.37	1.37	68.00	0.11	0.11	0.11
18.00	1.03	1.03	1.03	69.00	0.11	0.11	0.11
19.00	0.80	0.80	0.80	70.00	0.10	0.10	0.10
20.00	0.69	0.69	0.69	71.00	0.10	0.10	0.10
21.00	0.60	0.60	0.60	72.00	0.10	0.10	0.10
22.00	0.54	0.54	0.54	73.00	0.10	0.10	0.10
23.00	0.46	0.46	0.46	74.00	0.08	0.08	0.08
24.00	0.39	0.39	0.39	75.00	0.06	0.06	0.06
25.00	0.22	0.22	0.22	76.00	0.05	0.05	0.05
26.00	0.21	0.21	0.21	77.00	0.04	0.04	0.04
27.00	0.21	0.21	0.21	78.00	0.03	0.03	0.03
28.00	0.21	0.21	0.21	79.00	0.02	0.02	0.02
29.00	0.20	0.20	0.20	80.00	0.02	0.02	0.02
30.00	0.20	0.20	0.20	81.00	0.02	0.02	0.02
31.00	0.20	0.20	0.20	82.00	0.01	0.01	0.01
32.00	0.20	0.20	0.20	83.00	0.01	0.01	0.01
33.00	0.20	0.20	0.20	84.00	0.01	0.01	0.01
34.00	0.20	0.20	0.20	85.00	0.01	0.01	0.01
35.00	0.19	0.19	0.19	86.00	0.00	0.00	0.00
36.00	0.19	0.19	0.19	87.00	0.00	0.00	0.00
37.00	0.19	0.19	0.19	88.00	0.00	0.00	0.00
38.00	0.19	0.19	0.19	89.00	0.00	0.00	0.00
39.00	0.19	0.19	0.19	90.00	0.00	0.00	0.00
40.00	0.19	0.19	0.19	91.00	0.00	0.00	0.00
41.00	0.18	0.18	0.18	92.00	0.00	0.00	0.00
42.00	0.18	0.18	0.18	93.00	0.00	0.00	0.00
43.00	0.18	0.18	0.18	94.00	0.00	0.00	0.00
44.00	0.18	0.18	0.18	95.00	0.00	0.00	0.00
45.00	0.18	0.18	0.18	96.00	0.00	0.00	0.00
46.00	0.18	0.18	0.18	97.00	0.00	0.00	0.00
47.00	0.18	0.18	0.18	98.00	0.00	0.00	0.00
48.00	0.17	0.17	0.17	99.00	0.00	0.00	0.00
49.00	0.17	0.17	0.17	100.00	0.00	0.00	0.00
50.00	0.17	0.17	0.17				

Summary for Reach 40R: P-POA "B"

Inflow Area = 5.050 ac, 1.98% Impervious, Inflow Depth = 1.51" for 100-Year event
 Inflow = 2.68 cfs @ 12.59 hrs, Volume= 0.634 af
 Outflow = 2.68 cfs @ 12.59 hrs, Volume= 0.634 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 40R: P-POA "B"



Hydrograph for Reach 40R: P-POA "B"

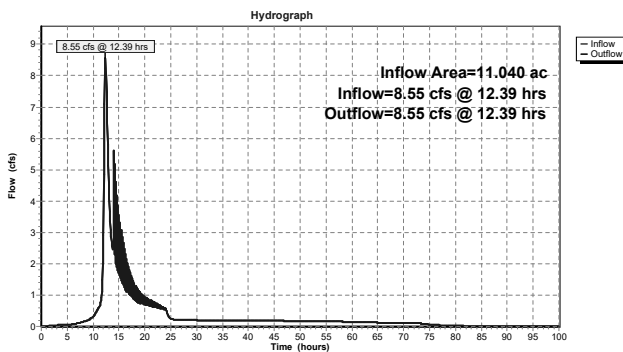
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.01		0.01	55.00	0.00		0.00
5.00	0.01		0.01	56.00	0.00		0.00
6.00	0.01		0.01	57.00	0.00		0.00
7.00	0.01		0.01	58.00	0.00		0.00
8.00	0.01		0.01	59.00	0.00		0.00
9.00	0.02		0.02	60.00	0.00		0.00
10.00	0.02		0.02	61.00	0.00		0.00
11.00	0.03		0.03	62.00	0.00		0.00
12.00	0.16		0.16	63.00	0.00		0.00
13.00	2.03		2.03	64.00	0.00		0.00
14.00	1.12		1.12	65.00	0.00		0.00
15.00	0.79		0.79	66.00	0.00		0.00
16.00	0.58		0.58	67.00	0.00		0.00
17.00	0.44		0.44	68.00	0.00		0.00
18.00	0.35		0.35	69.00	0.00		0.00
19.00	0.29		0.29	70.00	0.00		0.00
20.00	0.26		0.26	71.00	0.00		0.00
21.00	0.24		0.24	72.00	0.00		0.00
22.00	0.22		0.22	73.00	0.00		0.00
23.00	0.20		0.20	74.00	0.00		0.00
24.00	0.18		0.18	75.00	0.00		0.00
25.00	0.03		0.03	76.00	0.00		0.00
26.00	0.01		0.01	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 41R: P-POA

Inflow Area = 11.040 ac, 10.33% Impervious, Inflow Depth = 3.03" for 100-Year event
 Inflow = 8.55 cfs @ 12.39 hrs, Volume= 2.791 af
 Outflow = 8.55 cfs @ 12.39 hrs, Volume= 2.791 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 41R: P-POA



Hydrograph for Reach 41R: P-POA

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.17		0.17
1.00	0.01		0.01	52.00	0.17		0.17
2.00	0.03		0.03	53.00	0.17		0.17
3.00	0.04		0.04	54.00	0.17		0.17
4.00	0.05		0.05	55.00	0.16		0.16
5.00	0.06		0.06	56.00	0.16		0.16
6.00	0.07		0.07	57.00	0.15		0.15
7.00	0.10		0.10	58.00	0.15		0.15
8.00	0.14		0.14	59.00	0.14		0.14
9.00	0.20		0.20	60.00	0.14		0.14
10.00	0.32		0.32	61.00	0.14		0.14
11.00	0.56		0.56	62.00	0.13		0.13
12.00	2.92		2.92	63.00	0.13		0.13
13.00	4.59		4.59	64.00	0.12		0.12
14.00	5.61		5.61	65.00	0.12		0.12
15.00	3.55		3.55	66.00	0.12		0.12
16.00	2.49		2.49	67.00	0.11		0.11
17.00	1.81		1.81	68.00	0.11		0.11
18.00	1.38		1.38	69.00	0.11		0.11
19.00	1.10		1.10	70.00	0.10		0.10
20.00	0.96		0.96	71.00	0.10		0.10
21.00	0.85		0.85	72.00	0.10		0.10
22.00	0.76		0.76	73.00	0.10		0.10
23.00	0.66		0.66	74.00	0.08		0.08
24.00	0.58		0.58	75.00	0.06		0.06
25.00	0.25		0.25	76.00	0.05		0.05
26.00	0.22		0.22	77.00	0.04		0.04
27.00	0.21		0.21	78.00	0.03		0.03
28.00	0.21		0.21	79.00	0.02		0.02
29.00	0.20		0.20	80.00	0.02		0.02
30.00	0.20		0.20	81.00	0.02		0.02
31.00	0.20		0.20	82.00	0.01		0.01
32.00	0.20		0.20	83.00	0.01		0.01
33.00	0.20		0.20	84.00	0.01		0.01
34.00	0.20		0.20	85.00	0.01		0.01
35.00	0.19		0.19	86.00	0.00		0.00
36.00	0.19		0.19	87.00	0.00		0.00
37.00	0.19		0.19	88.00	0.00		0.00
38.00	0.19		0.19	89.00	0.00		0.00
39.00	0.19		0.19	90.00	0.00		0.00
40.00	0.19		0.19	91.00	0.00		0.00
41.00	0.18		0.18	92.00	0.00		0.00
42.00	0.18		0.18	93.00	0.00		0.00
43.00	0.18		0.18	94.00	0.00		0.00
44.00	0.18		0.18	95.00	0.00		0.00
45.00	0.18		0.18	96.00	0.00		0.00
46.00	0.18		0.18	97.00	0.00		0.00
47.00	0.18		0.18	98.00	0.00		0.00
48.00	0.17		0.17	99.00	0.00		0.00
49.00	0.17		0.17	100.00	0.00		0.00
50.00	0.17		0.17				

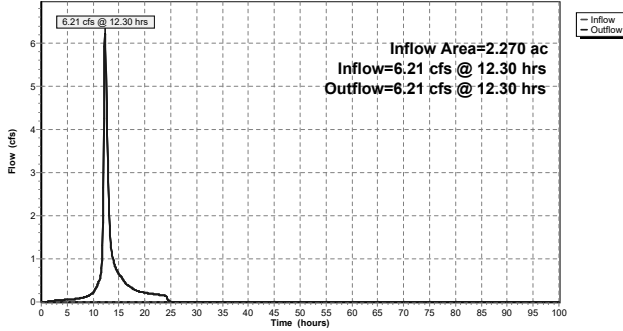
Summary for Reach 46R: P-100

Inflow Area = 2.270 ac, 22.47% Impervious, Inflow Depth = 4.83" for 100-Year event
 Inflow = 6.21 cfs @ 12.30 hrs, Volume= 0.913 af
 Outflow = 6.21 cfs @ 12.30 hrs, Volume= 0.913 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 46R: P-100

Hydrograph



Hydrograph for Reach 46R: P-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00
1.00	0.01	0.01	0.01	52.00	0.00	0.00	0.00
2.00	0.02	0.02	0.02	53.00	0.00	0.00	0.00
3.00	0.03	0.03	0.03	54.00	0.00	0.00	0.00
4.00	0.04	0.04	0.04	55.00	0.00	0.00	0.00
5.00	0.05	0.05	0.05	56.00	0.00	0.00	0.00
6.00	0.06	0.06	0.06	57.00	0.00	0.00	0.00
7.00	0.08	0.08	0.08	58.00	0.00	0.00	0.00
8.00	0.10	0.10	0.10	59.00	0.00	0.00	0.00
9.00	0.14	0.14	0.14	60.00	0.00	0.00	0.00
10.00	0.22	0.22	0.22	61.00	0.00	0.00	0.00
11.00	0.43	0.43	0.43	62.00	0.00	0.00	0.00
12.00	2.65	2.65	2.65	63.00	0.00	0.00	0.00
13.00	2.38	2.38	2.38	64.00	0.00	0.00	0.00
14.00	0.91	0.91	0.91	65.00	0.00	0.00	0.00
15.00	0.65	0.65	0.65	66.00	0.00	0.00	0.00
16.00	0.48	0.48	0.48	67.00	0.00	0.00	0.00
17.00	0.36	0.36	0.36	68.00	0.00	0.00	0.00
18.00	0.29	0.29	0.29	69.00	0.00	0.00	0.00
19.00	0.24	0.24	0.24	70.00	0.00	0.00	0.00
20.00	0.22	0.22	0.22	71.00	0.00	0.00	0.00
21.00	0.20	0.20	0.20	72.00	0.00	0.00	0.00
22.00	0.18	0.18	0.18	73.00	0.00	0.00	0.00
23.00	0.16	0.16	0.16	74.00	0.00	0.00	0.00
24.00	0.14	0.14	0.14	75.00	0.00	0.00	0.00
25.00	0.01	0.01	0.01	76.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00	79.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00	82.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00	83.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00	84.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00	86.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00	88.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00	89.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00	91.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00	93.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00	95.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00	99.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00				

Summary for Pond 43P: P-200 Station 1450 Culvert

Inflow Area = 3.720 ac, 14.25% Impervious, Inflow Depth = 4.06" for 100-Year event
 Inflow = 6.17 cfs @ 12.53 hrs, Volume= 1.259 af
 Outflow = 3.59 cfs @ 14.00 hrs, Volume= 1.244 af, Atten= 42%, Lag= 88.0 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Primary = 3.59 cfs @ 14.00 hrs, Volume= 1.244 af

Routing by Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 864.45' @ 14.00 hrs Surf.Area= 27,350 sf Storage= 30,636 cf

Plug-Flow detention time= 1,180.8 min calculated for 1.243 af (99% of inflow)
 Center-of-Mass det. time= 1,176.6 min (2,037.4 - 860.8)

Volume	Invert	Avail.Storage	Storage Description
#1	143.50'	30,636 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.50	4	0	0
145.58	10	15	15
146.00	245	54	68
147.00	3,750	1,998	2,066
148.00	13,020	8,385	10,451
149.00	27,350	20,185	30,636

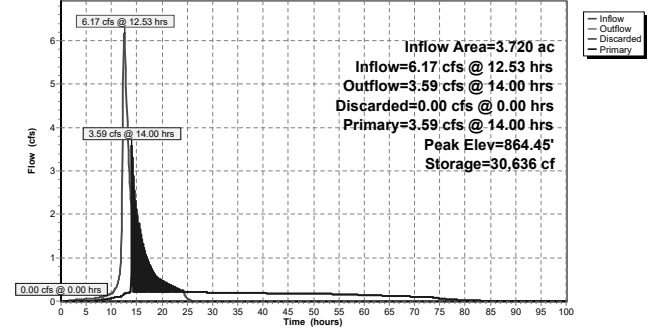
Device	Routing	Invert	Outlet Devices
#1	Discarded	1,000.00'	1,000 in/hr Exfiltration over Surface area above 1,000.00' Conductivity to Groundwater Elevation = 140.00' Excluded Surface area = 27,350 sf
#2	Primary	146.50'	2.0" x 2.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 2	145.58'	12.0" Round Culvert L= 60.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 145.58' / 145.00' S= 0.0097' / Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=143.50' (Free Discharge)
 1=Exfiltration (Controls 0.00 cfs)

Primary OutFlow Max=3.54 cfs @ 14.00 hrs HW=848.33' (Free Discharge)
 2=Orifice/Grate (Orifice Controls 3.54 cfs @ 127.56 fps)
 3=Culvert (Passes 3.54 cfs of 90.77 cfs potential flow)

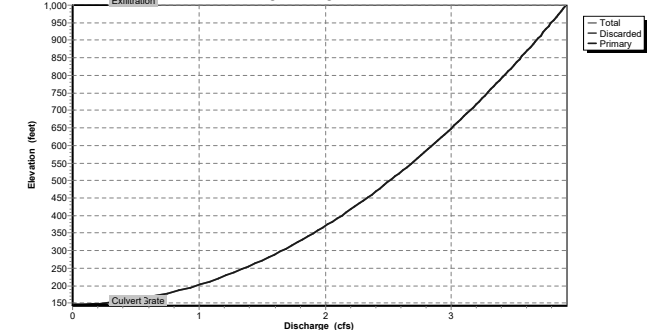
Pond 43P: P-200 Station 1450 Culvert

Hydrograph

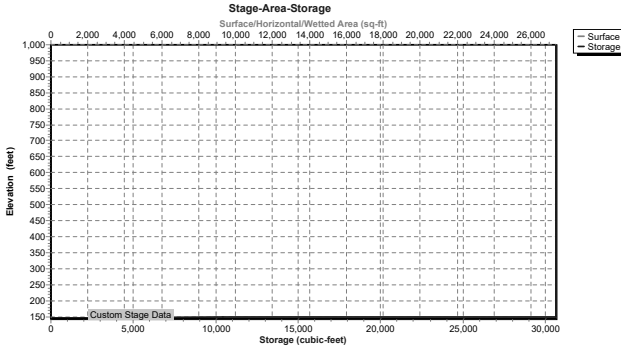


Pond 43P: P-200 Station 1450 Culvert

Stage-Discharge



Pond 43P: P-200 Station 1450 Culvert



Hydrograph for Pond 43P: P-200 Station 1450 Culvert

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	143.50	0.00	0.00	0.00
2.00	0.02	36	145.75	0.00	0.00	0.00
4.00	0.04	256	148.17	0.00	0.00	0.00
6.00	0.06	627	148.50	0.00	0.00	0.00
8.00	0.10	1,069	146.65	0.03	0.00	0.03
10.00	0.18	1,675	146.86	0.07	0.00	0.07
12.00	1.64	4,305	147.27	0.11	0.00	0.11
14.00	2.04	30,636	864.42	3.58	0.00	3.58
16.00	0.82	30,636	260.86	1.43	0.00	1.43
18.00	0.48	30,636	177.45	0.74	0.00	0.74
20.00	0.34	30,636	159.36	0.48	0.00	0.48
22.00	0.28	30,636	153.90	0.36	0.00	0.36
24.00	0.23	30,636	150.13	0.25	0.00	0.25
26.00	0.01	29,744	148.96	0.21	0.00	0.21
28.00	0.00	28,262	148.88	0.21	0.00	0.21
30.00	0.00	26,793	148.81	0.20	0.00	0.20
32.00	0.00	25,348	148.74	0.20	0.00	0.20
34.00	0.00	23,927	148.67	0.20	0.00	0.20
36.00	0.00	22,530	148.60	0.19	0.00	0.19
38.00	0.00	21,157	148.53	0.19	0.00	0.19
40.00	0.00	19,807	148.46	0.19	0.00	0.19
42.00	0.00	18,480	148.40	0.18	0.00	0.18
44.00	0.00	17,175	148.33	0.18	0.00	0.18
46.00	0.00	15,892	148.27	0.18	0.00	0.18
48.00	0.00	14,631	148.21	0.17	0.00	0.17
50.00	0.00	13,391	148.15	0.17	0.00	0.17
52.00	0.00	12,172	148.09	0.17	0.00	0.17
54.00	0.00	10,974	148.03	0.17	0.00	0.17
56.00	0.00	9,803	147.92	0.16	0.00	0.16
58.00	0.00	8,696	147.79	0.15	0.00	0.15
60.00	0.00	7,652	147.67	0.14	0.00	0.14
62.00	0.00	6,668	147.55	0.13	0.00	0.13
64.00	0.00	5,742	147.44	0.12	0.00	0.12
66.00	0.00	4,868	147.33	0.12	0.00	0.12
68.00	0.00	4,045	147.24	0.11	0.00	0.11
70.00	0.00	3,270	147.14	0.10	0.00	0.10
72.00	0.00	2,539	147.06	0.10	0.00	0.10
74.00	0.00	1,865	146.93	0.08	0.00	0.08
76.00	0.00	1,398	146.77	0.05	0.00	0.05
78.00	0.00	1,108	146.67	0.03	0.00	0.03
80.00	0.00	927	146.60	0.02	0.00	0.02
82.00	0.00	814	146.56	0.01	0.00	0.01
84.00	0.00	744	146.54	0.01	0.00	0.01
86.00	0.00	701	146.53	0.00	0.00	0.00
88.00	0.00	674	146.52	0.00	0.00	0.00
90.00	0.00	657	146.51	0.00	0.00	0.00
92.00	0.00	646	146.51	0.00	0.00	0.00
94.00	0.00	640	146.50	0.00	0.00	0.00
96.00	0.00	635	146.50	0.00	0.00	0.00
98.00	0.00	633	146.50	0.00	0.00	0.00
100.00	0.00	631	146.50	0.00	0.00	0.00

Stage-Discharge for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
143.50	0.00	0.00	0.00	582.10	2.79	0.00	2.79
152.10	0.32	0.00	0.32	590.70	2.82	0.00	2.82
160.70	0.50	0.00	0.50	599.30	2.85	0.00	2.85
169.30	0.64	0.00	0.64	607.90	2.87	0.00	2.87
177.90	0.75	0.00	0.75	616.50	2.90	0.00	2.90
186.50	0.85	0.00	0.85	625.10	2.93	0.00	2.93
195.10	0.93	0.00	0.93	633.70	2.95	0.00	2.95
203.70	1.01	0.00	1.01	642.30	2.98	0.00	2.98
212.30	1.08	0.00	1.08	650.90	3.00	0.00	3.00
220.90	1.15	0.00	1.15	659.50	3.03	0.00	3.03
229.50	1.22	0.00	1.22	668.10	3.05	0.00	3.05
238.10	1.28	0.00	1.28	676.70	3.08	0.00	3.08
246.70	1.34	0.00	1.34	685.30	3.10	0.00	3.10
255.30	1.40	0.00	1.40	693.90	3.13	0.00	3.13
263.90	1.45	0.00	1.45	702.50	3.15	0.00	3.15
272.50	1.50	0.00	1.50	711.10	3.18	0.00	3.18
281.10	1.55	0.00	1.55	719.70	3.20	0.00	3.20
289.70	1.60	0.00	1.60	728.30	3.23	0.00	3.23
298.30	1.65	0.00	1.65	736.90	3.25	0.00	3.25
306.90	1.69	0.00	1.69	745.50	3.27	0.00	3.27
315.50	1.74	0.00	1.74	754.10	3.30	0.00	3.30
324.10	1.78	0.00	1.78	762.70	3.32	0.00	3.32
332.70	1.83	0.00	1.83	771.30	3.34	0.00	3.34
341.30	1.87	0.00	1.87	779.90	3.37	0.00	3.37
349.90	1.91	0.00	1.91	788.50	3.39	0.00	3.39
358.50	1.95	0.00	1.95	797.10	3.41	0.00	3.41
367.10	1.99	0.00	1.99	805.70	3.43	0.00	3.43
375.70	2.02	0.00	2.02	814.30	3.46	0.00	3.46
384.30	2.06	0.00	2.06	822.90	3.48	0.00	3.48
392.90	2.10	0.00	2.10	831.50	3.50	0.00	3.50
401.50	2.14	0.00	2.14	840.10	3.52	0.00	3.52
410.10	2.17	0.00	2.17	848.70	3.54	0.00	3.54
418.70	2.21	0.00	2.21	857.30	3.57	0.00	3.57
427.30	2.24	0.00	2.24	865.90	3.59	0.00	3.59
435.90	2.28	0.00	2.28	874.50	3.61	0.00	3.61
444.50	2.31	0.00	2.31	883.10	3.63	0.00	3.63
453.10	2.34	0.00	2.34	891.70	3.65	0.00	3.65
461.70	2.37	0.00	2.37	900.30	3.67	0.00	3.67
470.30	2.41	0.00	2.41	908.90	3.69	0.00	3.69
478.90	2.44	0.00	2.44	917.50	3.71	0.00	3.71
487.50	2.47	0.00	2.47	926.10	3.73	0.00	3.73
496.10	2.50	0.00	2.50	934.70	3.75	0.00	3.75
504.70	2.53	0.00	2.53	943.30	3.78	0.00	3.78
513.30	2.56	0.00	2.56	951.90	3.80	0.00	3.80
521.90	2.59	0.00	2.59	960.50	3.82	0.00	3.82
530.50	2.62	0.00	2.62	969.10	3.84	0.00	3.84
539.10	2.65	0.00	2.65	977.70	3.86	0.00	3.86
547.70	2.68	0.00	2.68	986.30	3.88	0.00	3.88
556.30	2.71	0.00	2.71	994.90	3.90	0.00	3.90
564.90	2.74	0.00	2.74				
573.50	2.76	0.00	2.76				

Stage-Area-Storage for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
143.50	4	0	582.10	27,350	30,636
152.10	27,350	30,636	590.70	27,350	30,636
160.70	27,350	30,636	599.30	27,350	30,636
169.30	27,350	30,636	607.90	27,350	30,636
177.90	27,350	30,636	616.50	27,350	30,636
186.50	27,350	30,636	625.10	27,350	30,636
195.10	27,350	30,636	633.70	27,350	30,636
203.70	27,350	30,636	642.30	27,350	30,636
212.30	27,350	30,636	650.90	27,350	30,636
220.90	27,350	30,636	659.50	27,350	30,636
229.50	27,350	30,636	668.10	27,350	30,636
238.10	27,350	30,636	676.70	27,350	30,636
246.70	27,350	30,636	685.30	27,350	30,636
255.30	27,350	30,636	693.90	27,350	30,636
263.90	27,350	30,636	702.50	27,350	30,636
272.50	27,350	30,636	711.10	27,350	30,636
281.10	27,350	30,636	719.70	27,350	30,636
289.70	27,350	30,636	728.30	27,350	30,636
298.30	27,350	30,636	736.90	27,350	30,636
306.90	27,350	30,636	745.50	27,350	30,636
315.50	27,350	30,636	754.10	27,350	30,636
324.10	27,350	30,636	762.70	27,350	30,636
332.70	27,350	30,636	771.30	27,350	30,636
341.30	27,350	30,636	779.90	27,350	30,636
349.90	27,350	30,636	788.50	27,350	30,636
358.50	27,350	30,636	797.10	27,350	30,636
367.10	27,350	30,636	805.70	27,350	30,636
375.70	27,350	30,636	814.30	27,350	30,636
384.30	27,350	30,636	822.90	27,350	30,636
392.90	27,350	30,636	831.50	27,350	30,636
401.50	27,350	30,636	840.10	27,350	30,636
410.10	27,350	30,636	848.70	27,350	30,636
418.70	27,350	30,636	857.30	27,350	30,636
427.30	27,350	30,636	865.90	27,350	30,636
435.90	27,350	30,636	874.50	27,350	30,636
444.50	27,350	30,636	883.10	27,350	30,636
453.10	27,350	30,636	891.70	27,350	30,636
461.70	27,350	30,636	900.30	27,350	30,636
470.30	27,350	30,636	908.90	27,350	30,636
478.90	27,350	30,636	917.50	27,350	30,636
487.50	27,350	30,636	926.10	27,350	30,636
496.10	27,350	30,636	934.70	27,350	30,636
504.70	27,350	30,636	943.30	27,350	30,636
513.30	27,350	30,636	951.90	27,350	30,636
521.90</					

Summary for Pond 44P: P-300 Rainwater Garden

Inflow Area = 1,590 ac, 2.52% Impervious, Inflow Depth = 2.27" for 100-Year event
 Inflow = 1.15 cfs @ 12.72 hrs, Volume= 0.301 af
 Outflow = 1.17 cfs @ 12.80 hrs, Volume= 0.288 af, Atten= 0%, Lag= 4.7 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Primary = 1.17 cfs @ 12.80 hrs, Volume= 0.288 af

Routing by Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 147.17' @ 12.80 hrs Surf.Area= 3,603 sf Storage= 592 cf

Plug-Flow detention time= 36.3 min calculated for 0.288 af (96% of inflow)
 Center-of-Mass det. time= 13.4 min (935.1 - 921.7)

Volume	Invert	Avail.Storage	Storage Description
#1	147.00'	8,800 cf	Custom Stage Data (Prismatic), Listed below (Recalc)

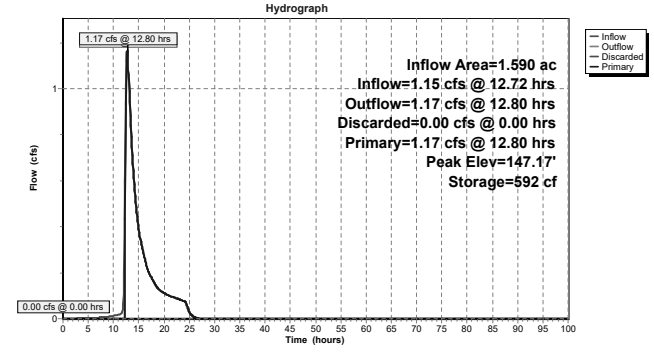
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.00	3,400	0	0
148.00	4,600	4,000	4,000
149.00	5,000	4,800	8,800

Device	Routing	Invert	Outlet Devices
#1	Discarded	1,000.00'	1,000 in/hr Exfiltration over Surface area above 1,000.00' Conductivity to Groundwater Elevation = 140.00' Excluded Surface area = 5,000 sf
#2	Primary	147.16'	Asymmetrical Weir, C= 3.27 Offset (feet) 1,100.00 1,150.00 1,200.00 1,255.00 Elev. (feet) 148.00 147.16 147.91 148.00

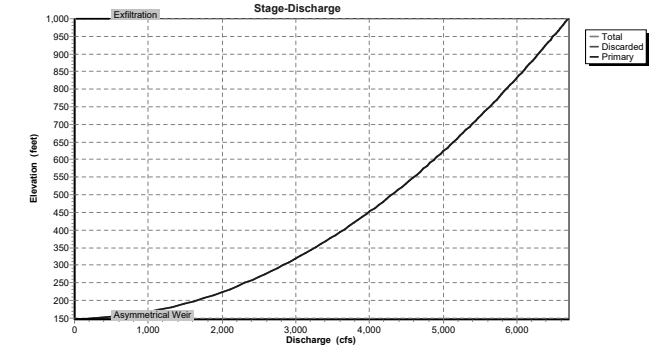
Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=147.00' (Free Discharge)
 1=Exfiltration (Controls 0.00 cfs)

Primary OutFlow Max=0.00 cfs @ 12.80 hrs HW=147.17' (Free Discharge)
 2=Asymmetrical Weir (Weir Controls 0.00 cfs @ 0.12 fps)

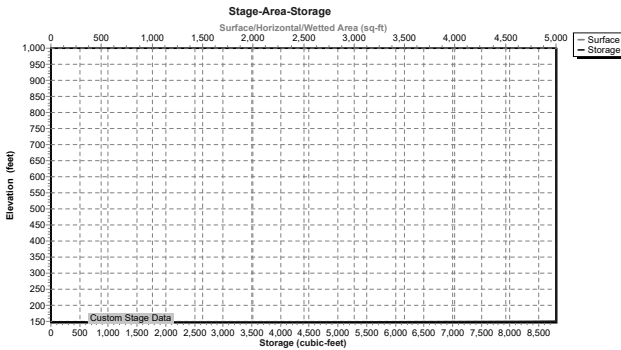
Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Hydrograph for Pond 44P: P-300 Rainwater Garden

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	147.00	0.00	0.00	0.00
2.00	0.00	2	147.00	0.00	0.00	0.00
4.00	0.00	17	147.00	0.00	0.00	0.00
6.00	0.00	44	147.01	0.00	0.00	0.00
8.00	0.01	83	147.02	0.00	0.00	0.00
10.00	0.01	150	147.04	0.00	0.00	0.00
12.00	0.11	318	147.09	0.00	0.00	0.00
14.00	0.61	579	147.16	0.61	0.00	0.61
16.00	0.28	568	147.16	0.28	0.00	0.28
18.00	0.16	564	147.16	0.16	0.00	0.16
20.00	0.11	563	147.16	0.11	0.00	0.11
22.00	0.09	562	147.16	0.09	0.00	0.09
24.00	0.08	562	147.16	0.08	0.00	0.08
26.00	0.01	560	147.16	0.01	0.00	0.01
28.00	0.00	559	147.16	0.00	0.00	0.00
30.00	0.00	559	147.16	0.00	0.00	0.00
32.00	0.00	559	147.16	0.00	0.00	0.00
34.00	0.00	559	147.16	0.00	0.00	0.00
36.00	0.00	559	147.16	0.00	0.00	0.00
38.00	0.00	559	147.16	0.00	0.00	0.00
40.00	0.00	559	147.16	0.00	0.00	0.00
42.00	0.00	559	147.16	0.00	0.00	0.00
44.00	0.00	559	147.16	0.00	0.00	0.00
46.00	0.00	559	147.16	0.00	0.00	0.00
48.00	0.00	559	147.16	0.00	0.00	0.00
50.00	0.00	559	147.16	0.00	0.00	0.00
52.00	0.00	559	147.16	0.00	0.00	0.00
54.00	0.00	559	147.16	0.00	0.00	0.00
56.00	0.00	559	147.16	0.00	0.00	0.00
58.00	0.00	559	147.16	0.00	0.00	0.00
60.00	0.00	559	147.16	0.00	0.00	0.00
62.00	0.00	559	147.16	0.00	0.00	0.00
64.00	0.00	559	147.16	0.00	0.00	0.00
66.00	0.00	559	147.16	0.00	0.00	0.00
68.00	0.00	559	147.16	0.00	0.00	0.00
70.00	0.00	559	147.16	0.00	0.00	0.00
72.00	0.00	559	147.16	0.00	0.00	0.00
74.00	0.00	559	147.16	0.00	0.00	0.00
76.00	0.00	559	147.16	0.00	0.00	0.00
78.00	0.00	559	147.16	0.00	0.00	0.00
80.00	0.00	559	147.16	0.00	0.00	0.00
82.00	0.00	559	147.16	0.00	0.00	0.00
84.00	0.00	559	147.16	0.00	0.00	0.00
86.00	0.00	559	147.16	0.00	0.00	0.00
88.00	0.00	559	147.16	0.00	0.00	0.00
90.00	0.00	559	147.16	0.00	0.00	0.00
92.00	0.00	559	147.16	0.00	0.00	0.00
94.00	0.00	559	147.16	0.00	0.00	0.00
96.00	0.00	559	147.16	0.00	0.00	0.00
98.00	0.00	559	147.16	0.00	0.00	0.00
100.00	0.00	559	147.16	0.00	0.00	0.00

Stage-Discharge for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
147.00	0.00	0.00	0.00	583.05	4,781.80	0.00	4,781.80
155.55	640.78	0.00	640.78	591.60	4,828.53	0.00	4,828.53
164.10	927.22	0.00	927.22	600.15	4,874.82	0.00	4,874.82
172.65	1,144.05	0.00	1,144.05	608.70	4,920.66	0.00	4,920.66
181.20	1,325.87	0.00	1,325.87	617.25	4,966.09	0.00	4,966.09
189.75	1,485.61	0.00	1,485.61	625.80	5,011.10	0.00	5,011.10
198.30	1,629.77	0.00	1,629.77	634.35	5,055.71	0.00	5,055.71
206.85	1,762.17	0.00	1,762.17	642.90	5,099.94	0.00	5,099.94
215.40	1,885.30	0.00	1,885.30	651.45	5,143.78	0.00	5,143.78
223.95	2,000.86	0.00	2,000.86	660.00	5,187.25	0.00	5,187.25
232.50	2,110.11	0.00	2,110.11	668.55	5,230.36	0.00	5,230.36
241.05	2,213.97	0.00	2,213.97	677.10	5,273.11	0.00	5,273.11
249.60	2,313.17	0.00	2,313.17	685.65	5,315.53	0.00	5,315.53
258.15	2,408.29	0.00	2,408.29	694.20	5,357.61	0.00	5,357.61
266.70	2,499.79	0.00	2,499.79	702.75	5,399.36	0.00	5,399.36
275.25	2,588.06	0.00	2,588.06	711.30	5,440.78	0.00	5,440.78
283.80	2,673.42	0.00	2,673.42	719.85	5,481.90	0.00	5,481.90
292.35	2,756.13	0.00	2,756.13	728.40	5,522.71	0.00	5,522.71
300.90	2,836.43	0.00	2,836.43	736.95	5,563.22	0.00	5,563.22
309.45	2,914.52	0.00	2,914.52	745.50	5,603.44	0.00	5,603.44
318.00	2,990.58	0.00	2,990.58	754.05	5,643.37	0.00	5,643.37
326.55	3,064.74	0.00	3,064.74	762.60	5,683.02	0.00	5,683.02
335.10	3,137.16	0.00	3,137.16	771.15	5,722.40	0.00	5,722.40
343.65	3,207.94	0.00	3,207.94	779.70	5,761.50	0.00	5,761.50
352.20	3,277.19	0.00	3,277.19	788.25	5,800.35	0.00	5,800.35
360.75	3,345.00	0.00	3,345.00	796.80	5,838.93	0.00	5,838.93
369.30	3,411.47	0.00	3,411.47	805.35	5,877.26	0.00	5,877.26
377.85	3,476.67	0.00	3,476.67	813.90	5,915.35	0.00	5,915.35
386.40	3,540.67	0.00	3,540.67	822.45	5,953.19	0.00	5,953.19
394.95	3,603.53	0.00	3,603.53	831.00	5,990.79	0.00	5,990.79
403.50	3,665.32	0.00	3,665.32	839.55	6,028.15	0.00	6,028.15
412.05	3,726.08	0.00	3,726.08	848.10	6,065.29	0.00	6,065.29
420.60	3,785.86	0.00	3,785.86	856.65	6,102.20	0.00	6,102.20
429.15	3,844.72	0.00	3,844.72	865.20	6,138.89	0.00	6,138.89
437.70	3,902.68	0.00	3,902.68	873.75	6,175.36	0.00	6,175.36
446.25	3,959.80	0.00	3,959.80	882.30	6,211.61	0.00	6,211.61
454.80	4,016.11	0.00	4,016.11	890.85	6,247.66	0.00	6,247.66
463.35	4,071.64	0.00	4,071.64	899.40	6,283.50	0.00	6,283.50
471.90	4,126.42	0.00	4,126.42	907.95	6,319.13	0.00	6,319.13
480.45	4,180.48	0.00	4,180.48	916.50	6,354.57	0.00	6,354.57
489.00	4,233.86	0.00	4,233.86	925.05	6,389.81	0.00	6,389.81
497.55	4,286.57	0.00	4,286.57	933.60	6,424.85	0.00	6,424.85
506.10	4,338.63	0.00	4,338.63	942.15	6,459.71	0.00	6,459.71
514.65	4,390.09	0.00	4,390.09	950.70	6,494.38	0.00	6,494.38
523.20	4,440.94	0.00	4,440.94	959.25	6,528.86	0.00	6,528.86
531.75	4,491.22	0.00	4,491.22	967.80	6,563.16	0.00	6,563.16
540.30	4,540.94	0.00	4,540.94	976.35	6,597.29	0.00	6,597.29
548.85	4,590.12	0.00	4,590.12	984.90	6,631.24	0.00	6,631.24
557.40	4,638.79	0.00	4,638.79	993.45	6,665.02	0.00	6,665.02
565.95	4,686.94	0.00	4,686.94				
574.50	4,734.61	0.00	4,734.61				

Stage-Area-Storage for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.00	3,400	0	583.05	5,000	8,800
155.55	5,000	8,800	591.60	5,000	8,800
164.10	5,000	8,800	600.15	5,000	8,800
172.65	5,000	8,800	608.70	5,000	8,800
181.20	5,000	8,800	617.25	5,000	8,800
189.75	5,000	8,800	625.80	5,000	8,800
198.30	5,000	8,800	634.35	5,000	8,800
206.85	5,000	8,800	642.90	5,000	8,800
215.40	5,000	8,800	651.45	5,000	8,800
223.95	5,000	8,800	660.00	5,000	8,800
232.50	5,000	8,800	668.55	5,000	8,800
241.05	5,000	8,800	677.10	5,000	8,800
249.60	5,000	8,800	685.65	5,000	8,800
258.15	5,000	8,800	694.20	5,000	8,800
266.70	5,000	8,800	702.75	5,000	8,800
275.25	5,000	8,800	711.30	5,000	8,800
283.80	5,000	8,800	719.85	5,000	8,800
292.35	5,000	8,800	728.40	5,000	8,800
300.90	5,000	8,800	736.95	5,000	8,800
309.45	5,000	8,800	745.50	5,000	8,800
318.00	5,000	8,800	754.05	5,000	8,800
326.55	5,000	8,800	762.60	5,000	8,800
335.10	5,000	8,800	771.15	5,000	8,800
343.65	5,000	8,800	779.70	5,000	8,800
352.20	5,000	8,800	788.25	5,000	8,800
360.75	5,000	8,800	796.80	5,000	8,800
369.30	5,000	8,800	805.35	5,000	8,800
377.85	5,000	8,800	813.90	5,000	8,800
386.40	5,000	8,800	822.45	5,000	8,800
394.95	5,000	8,800	831.00	5,000	8,800
403.50	5,000	8,800	839.55	5,000	8,800
412.05	5,000	8,800	848.10	5,000	8,800
420.60	5,000	8,800	856.65	5,000	8,800
429.15	5,000	8,800	865.20	5,000	8,800
437.70	5,000	8,800	873.75	5,000	8,800
446.25	5,000	8,800	882.30	5,000	8,800
454.80	5,000	8,800	890.85	5,000	8,800
463.35	5,000	8,800	899.40	5,000	8,800
471.90	5,000	8,800	907.95	5,000	8,800
480.45	5,000	8,800	916.50	5,000	8,800
489.00	5,000	8,800	925.05	5,000	8,800
497.55	5,000	8,800	933.60	5,000	8,800
506.10	5,000	8,800	942.15	5,000	8,800
514.65	5,000	8,800	950.70	5,000	8,800
523.20	5,000	8,800	959.25	5,000	8,800
531.75	5,000	8,800	967.80	5,000	8,800
540.30	5,000	8,800	976.35	5,000	8,800
548.85	5,000	8,800	984.90	5,000	8,800
557.40	5,000	8,800	993.45	5,000	8,800
565.95	5,000	8,800			
574.50	5,000	8,800			

Time span=0.00-100.00 hrs, dt=0.10 hrs, 1001 points
 Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: E-100 PERV	Runoff Area=2.270 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=610' Tc=16.5 min CN=60 Runoff=0.00 cfs 0.000 af
Subcatchment2S: E-200 PERV	Runoff Area=3.720 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=373' Tc=31.5 min CN=57 Runoff=0.00 cfs 0.000 af
Subcatchment3S: E-300 PERV	Runoff Area=1.590 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=300' Slope=0.0100 1/1' Tc=40.2 min CN=46 Runoff=0.00 cfs 0.000 af
Subcatchment4S: E-400 PERV	Runoff Area=3.460 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=150' Slope=0.0250 1/1' Tc=15.9 min CN=36 Runoff=0.00 cfs 0.000 af
Subcatchment45S: P-100 PERV	Runoff Area=1.760 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=610' Tc=16.5 min CN=61 Runoff=0.00 cfs 0.000 af
Subcatchment46S: P-200 PERV	Runoff Area=3.190 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=373' Tc=31.5 min CN=57 Runoff=0.00 cfs 0.000 af
Subcatchment47S: P-300 PERV	Runoff Area=1.550 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=300' Slope=0.0100 1/1' Tc=40.2 min CN=46 Runoff=0.00 cfs 0.000 af
Subcatchment48S: P-400 PERV	Runoff Area=3.400 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=150' Slope=0.0250 1/1' Tc=15.9 min CN=36 Runoff=0.00 cfs 0.000 af
Subcatchment49S: P-100 IMP	Runoff Area=0.510 ac 100.00% Impervious Runoff Depth=1.03" Flow Length=610' Tc=16.5 min CN=98 Runoff=0.70 cfs 0.044 af
Subcatchment50S: P-200 IMP	Runoff Area=0.530 ac 100.00% Impervious Runoff Depth=1.03" Flow Length=373' Tc=31.5 min CN=98 Runoff=0.47 cfs 0.046 af
Subcatchment51S: P-300 IMP	Runoff Area=0.040 ac 100.00% Impervious Runoff Depth=1.03" Flow Length=300' Slope=0.0100 1/1' Tc=40.2 min CN=98 Runoff=0.03 cfs 0.003 af
Subcatchment52S: P-400 IMP	Runoff Area=0.060 ac 100.00% Impervious Runoff Depth=1.03" Flow Length=150' Slope=0.0250 1/1' Tc=15.9 min CN=98 Runoff=0.08 cfs 0.005 af

Reach 6R: E-100	Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Reach 7R: E-200	Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Reach 8R: E-300	Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Reach 22R: E-400	Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Reach 23R: E-POA "A"	Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Reach 25R: E-POA "B"	Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Reach 26R: E-POA	Inflow=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Reach 38R: P-400	Inflow=0.08 cfs 0.005 af Outflow=0.08 cfs 0.005 af
Reach 39R: P-POA "A"	Inflow=0.70 cfs 0.075 af Outflow=0.70 cfs 0.075 af
Reach 40R: P-POA "B"	Inflow=0.08 cfs 0.005 af Outflow=0.08 cfs 0.005 af
Reach 41R: P-POA	Inflow=0.78 cfs 0.080 af Outflow=0.78 cfs 0.080 af
Reach 46R: P-100	Inflow=0.70 cfs 0.044 af Outflow=0.70 cfs 0.044 af
Pond 43P: P-200 Station 1450 Culvert	Peak Elev=146.85' Storage=1,534 cf Inflow=0.47 cfs 0.046 af Discarded=0.00 cfs 0.000 af Primary=0.07 cfs 0.031 af Outflow=0.07 cfs 0.031 af
Pond 44P: P-300 Rainwater Garden	Peak Elev=147.04' Storage=147 cf Inflow=0.03 cfs 0.003 af Discarded=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af
Total Runoff Area = 22.800 ac Runoff Volume = 0.098 af Average Runoff Depth = 0.05"	
94.84% Pervious = 20.940 ac 5.16% Impervious = 1.140 ac	

Summary for Subcatchment 1S: E-100 PERV

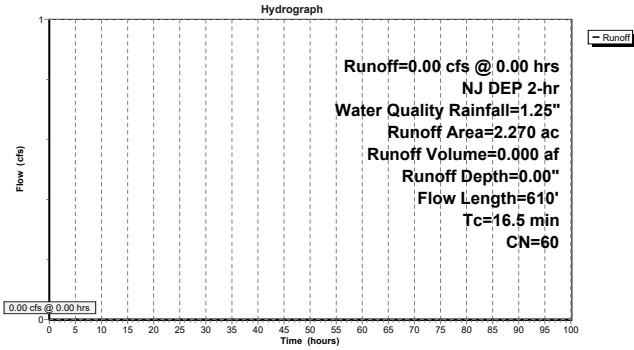
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
0.420	55	Woods, Good, HSG B
1.850	61	>75% Grass cover, Good, HSG B
2.270	60	Weighted Average
2.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 1S: E-100 PERV



Hydrograph for Subcatchment 1S: E-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	0.00	0.00
1.00	0.63	0.00	0.00	52.00	1.25	0.00	0.00
2.00	1.25	0.00	0.00	53.00	1.25	0.00	0.00
3.00	1.25	0.00	0.00	54.00	1.25	0.00	0.00
4.00	1.25	0.00	0.00	55.00	1.25	0.00	0.00
5.00	1.25	0.00	0.00	56.00	1.25	0.00	0.00
6.00	1.25	0.00	0.00	57.00	1.25	0.00	0.00
7.00	1.25	0.00	0.00	58.00	1.25	0.00	0.00
8.00	1.25	0.00	0.00	59.00	1.25	0.00	0.00
9.00	1.25	0.00	0.00	60.00	1.25	0.00	0.00
10.00	1.25	0.00	0.00	61.00	1.25	0.00	0.00
11.00	1.25	0.00	0.00	62.00	1.25	0.00	0.00
12.00	1.25	0.00	0.00	63.00	1.25	0.00	0.00
13.00	1.25	0.00	0.00	64.00	1.25	0.00	0.00
14.00	1.25	0.00	0.00	65.00	1.25	0.00	0.00
15.00	1.25	0.00	0.00	66.00	1.25	0.00	0.00
16.00	1.25	0.00	0.00	67.00	1.25	0.00	0.00
17.00	1.25	0.00	0.00	68.00	1.25	0.00	0.00
18.00	1.25	0.00	0.00	69.00	1.25	0.00	0.00
19.00	1.25	0.00	0.00	70.00	1.25	0.00	0.00
20.00	1.25	0.00	0.00	71.00	1.25	0.00	0.00
21.00	1.25	0.00	0.00	72.00	1.25	0.00	0.00
22.00	1.25	0.00	0.00	73.00	1.25	0.00	0.00
23.00	1.25	0.00	0.00	74.00	1.25	0.00	0.00
24.00	1.25	0.00	0.00	75.00	1.25	0.00	0.00
25.00	1.25	0.00	0.00	76.00	1.25	0.00	0.00
26.00	1.25	0.00	0.00	77.00	1.25	0.00	0.00
27.00	1.25	0.00	0.00	78.00	1.25	0.00	0.00
28.00	1.25	0.00	0.00	79.00	1.25	0.00	0.00
29.00	1.25	0.00	0.00	80.00	1.25	0.00	0.00
30.00	1.25	0.00	0.00	81.00	1.25	0.00	0.00
31.00	1.25	0.00	0.00	82.00	1.25	0.00	0.00
32.00	1.25	0.00	0.00	83.00	1.25	0.00	0.00
33.00	1.25	0.00	0.00	84.00	1.25	0.00	0.00
34.00	1.25	0.00	0.00	85.00	1.25	0.00	0.00
35.00	1.25	0.00	0.00	86.00	1.25	0.00	0.00
36.00	1.25	0.00	0.00	87.00	1.25	0.00	0.00
37.00	1.25	0.00	0.00	88.00	1.25	0.00	0.00
38.00	1.25	0.00	0.00	89.00	1.25	0.00	0.00
39.00	1.25	0.00	0.00	90.00	1.25	0.00	0.00
40.00	1.25	0.00	0.00	91.00	1.25	0.00	0.00
41.00	1.25	0.00	0.00	92.00	1.25	0.00	0.00
42.00	1.25	0.00	0.00	93.00	1.25	0.00	0.00
43.00	1.25	0.00	0.00	94.00	1.25	0.00	0.00
44.00	1.25	0.00	0.00	95.00	1.25	0.00	0.00
45.00	1.25	0.00	0.00	96.00	1.25	0.00	0.00
46.00	1.25	0.00	0.00	97.00	1.25	0.00	0.00
47.00	1.25	0.00	0.00	98.00	1.25	0.00	0.00
48.00	1.25	0.00	0.00	99.00	1.25	0.00	0.00
49.00	1.25	0.00	0.00	100.00	1.25	0.00	0.00
50.00	1.25	0.00	0.00				

Summary for Subcatchment 2S: E-200 PERV

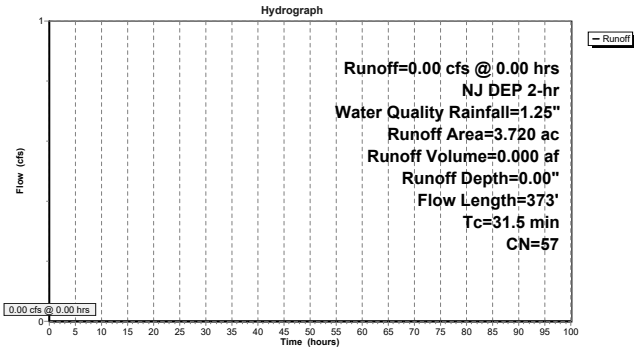
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
2.400	55	Woods, Good, HSG B
0.010	30	Woods, Good, HSG A
1.310	61	>75% Grass cover, Good, HSG B
3.720	57	Weighted Average
3.720		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 2S: E-200 PERV



Hydrograph for Subcatchment 2S: E-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	0.00	0.00
1.00	0.63	0.00	0.00	52.00	1.25	0.00	0.00
2.00	1.25	0.00	0.00	53.00	1.25	0.00	0.00
3.00	1.25	0.00	0.00	54.00	1.25	0.00	0.00
4.00	1.25	0.00	0.00	55.00	1.25	0.00	0.00
5.00	1.25	0.00	0.00	56.00	1.25	0.00	0.00
6.00	1.25	0.00	0.00	57.00	1.25	0.00	0.00
7.00	1.25	0.00	0.00	58.00	1.25	0.00	0.00
8.00	1.25	0.00	0.00	59.00	1.25	0.00	0.00
9.00	1.25	0.00	0.00	60.00	1.25	0.00	0.00
10.00	1.25	0.00	0.00	61.00	1.25	0.00	0.00
11.00	1.25	0.00	0.00	62.00	1.25	0.00	0.00
12.00	1.25	0.00	0.00	63.00	1.25	0.00	0.00
13.00	1.25	0.00	0.00	64.00	1.25	0.00	0.00
14.00	1.25	0.00	0.00	65.00	1.25	0.00	0.00
15.00	1.25	0.00	0.00	66.00	1.25	0.00	0.00
16.00	1.25	0.00	0.00	67.00	1.25	0.00	0.00
17.00	1.25	0.00	0.00	68.00	1.25	0.00	0.00
18.00	1.25	0.00	0.00	69.00	1.25	0.00	0.00
19.00	1.25	0.00	0.00	70.00	1.25	0.00	0.00
20.00	1.25	0.00	0.00	71.00	1.25	0.00	0.00
21.00	1.25	0.00	0.00	72.00	1.25	0.00	0.00
22.00	1.25	0.00	0.00	73.00	1.25	0.00	0.00
23.00	1.25	0.00	0.00	74.00	1.25	0.00	0.00
24.00	1.25	0.00	0.00	75.00	1.25	0.00	0.00
25.00	1.25	0.00	0.00	76.00	1.25	0.00	0.00
26.00	1.25	0.00	0.00	77.00	1.25	0.00	0.00
27.00	1.25	0.00	0.00	78.00	1.25	0.00	0.00
28.00	1.25	0.00	0.00	79.00	1.25	0.00	0.00
29.00	1.25	0.00	0.00	80.00	1.25	0.00	0.00
30.00	1.25	0.00	0.00	81.00	1.25	0.00	0.00
31.00	1.25	0.00	0.00	82.00	1.25	0.00	0.00
32.00	1.25	0.00	0.00	83.00	1.25	0.00	0.00
33.00	1.25	0.00	0.00	84.00	1.25	0.00	0.00
34.00	1.25	0.00	0.00	85.00	1.25	0.00	0.00
35.00	1.25	0.00	0.00	86.00	1.25	0.00	0.00
36.00	1.25	0.00	0.00	87.00	1.25	0.00	0.00
37.00	1.25	0.00	0.00	88.00	1.25	0.00	0.00
38.00	1.25	0.00	0.00	89.00	1.25	0.00	0.00
39.00	1.25	0.00	0.00	90.00	1.25	0.00	0.00
40.00	1.25	0.00	0.00	91.00	1.25	0.00	0.00
41.00	1.25	0.00	0.00	92.00	1.25	0.00	0.00
42.00	1.25	0.00	0.00	93.00	1.25	0.00	0.00
43.00	1.25	0.00	0.00	94.00	1.25	0.00	0.00
44.00	1.25	0.00	0.00	95.00	1.25	0.00	0.00
45.00	1.25	0.00	0.00	96.00	1.25	0.00	0.00
46.00	1.25	0.00	0.00	97.00	1.25	0.00	0.00
47.00	1.25	0.00	0.00	98.00	1.25	0.00	0.00
48.00	1.25	0.00	0.00	99.00	1.25	0.00	0.00
49.00	1.25	0.00	0.00	100.00	1.25	0.00	0.00
50.00	1.25	0.00	0.00				

Summary for Subcatchment 3S: E-300 PERV

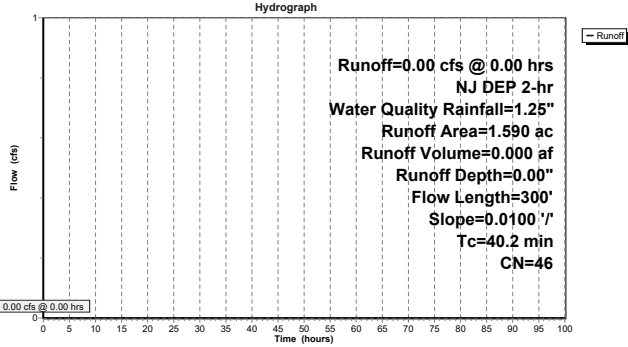
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	Pasture/grassland/range, Good, HSG B
0.940	39	Pasture/grassland/range, Good, HSG A
1.590	46	Weighted Average
1.590		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 3S: E-300 PERV



Hydrograph for Subcatchment 3S: E-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	0.00	0.00
1.00	0.63	0.00	0.00	52.00	1.25	0.00	0.00
2.00	1.25	0.00	0.00	53.00	1.25	0.00	0.00
3.00	1.25	0.00	0.00	54.00	1.25	0.00	0.00
4.00	1.25	0.00	0.00	55.00	1.25	0.00	0.00
5.00	1.25	0.00	0.00	56.00	1.25	0.00	0.00
6.00	1.25	0.00	0.00	57.00	1.25	0.00	0.00
7.00	1.25	0.00	0.00	58.00	1.25	0.00	0.00
8.00	1.25	0.00	0.00	59.00	1.25	0.00	0.00
9.00	1.25	0.00	0.00	60.00	1.25	0.00	0.00
10.00	1.25	0.00	0.00	61.00	1.25	0.00	0.00
11.00	1.25	0.00	0.00	62.00	1.25	0.00	0.00
12.00	1.25	0.00	0.00	63.00	1.25	0.00	0.00
13.00	1.25	0.00	0.00	64.00	1.25	0.00	0.00
14.00	1.25	0.00	0.00	65.00	1.25	0.00	0.00
15.00	1.25	0.00	0.00	66.00	1.25	0.00	0.00
16.00	1.25	0.00	0.00	67.00	1.25	0.00	0.00
17.00	1.25	0.00	0.00	68.00	1.25	0.00	0.00
18.00	1.25	0.00	0.00	69.00	1.25	0.00	0.00
19.00	1.25	0.00	0.00	70.00	1.25	0.00	0.00
20.00	1.25	0.00	0.00	71.00	1.25	0.00	0.00
21.00	1.25	0.00	0.00	72.00	1.25	0.00	0.00
22.00	1.25	0.00	0.00	73.00	1.25	0.00	0.00
23.00	1.25	0.00	0.00	74.00	1.25	0.00	0.00
24.00	1.25	0.00	0.00	75.00	1.25	0.00	0.00
25.00	1.25	0.00	0.00	76.00	1.25	0.00	0.00
26.00	1.25	0.00	0.00	77.00	1.25	0.00	0.00
27.00	1.25	0.00	0.00	78.00	1.25	0.00	0.00
28.00	1.25	0.00	0.00	79.00	1.25	0.00	0.00
29.00	1.25	0.00	0.00	80.00	1.25	0.00	0.00
30.00	1.25	0.00	0.00	81.00	1.25	0.00	0.00
31.00	1.25	0.00	0.00	82.00	1.25	0.00	0.00
32.00	1.25	0.00	0.00	83.00	1.25	0.00	0.00
33.00	1.25	0.00	0.00	84.00	1.25	0.00	0.00
34.00	1.25	0.00	0.00	85.00	1.25	0.00	0.00
35.00	1.25	0.00	0.00	86.00	1.25	0.00	0.00
36.00	1.25	0.00	0.00	87.00	1.25	0.00	0.00
37.00	1.25	0.00	0.00	88.00	1.25	0.00	0.00
38.00	1.25	0.00	0.00	89.00	1.25	0.00	0.00
39.00	1.25	0.00	0.00	90.00	1.25	0.00	0.00
40.00	1.25	0.00	0.00	91.00	1.25	0.00	0.00
41.00	1.25	0.00	0.00	92.00	1.25	0.00	0.00
42.00	1.25	0.00	0.00	93.00	1.25	0.00	0.00
43.00	1.25	0.00	0.00	94.00	1.25	0.00	0.00
44.00	1.25	0.00	0.00	95.00	1.25	0.00	0.00
45.00	1.25	0.00	0.00	96.00	1.25	0.00	0.00
46.00	1.25	0.00	0.00	97.00	1.25	0.00	0.00
47.00	1.25	0.00	0.00	98.00	1.25	0.00	0.00
48.00	1.25	0.00	0.00	99.00	1.25	0.00	0.00
49.00	1.25	0.00	0.00	100.00	1.25	0.00	0.00
50.00	1.25	0.00	0.00				

Summary for Subcatchment 4S: E-400 PERV

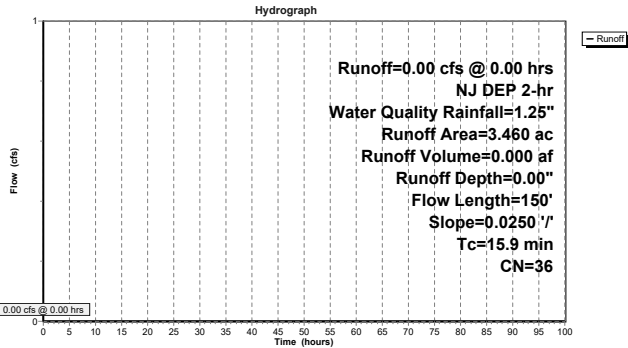
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.980	39	Pasture/grassland/range, Good, HSG A
3.460	36	Weighted Average
3.460		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 4S: E-400 PERV



Hydrograph for Subcatchment 4S: E-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	0.00	0.00
1.00	0.63	0.00	0.00	52.00	1.25	0.00	0.00
2.00	1.25	0.00	0.00	53.00	1.25	0.00	0.00
3.00	1.25	0.00	0.00	54.00	1.25	0.00	0.00
4.00	1.25	0.00	0.00	55.00	1.25	0.00	0.00
5.00	1.25	0.00	0.00	56.00	1.25	0.00	0.00
6.00	1.25	0.00	0.00	57.00	1.25	0.00	0.00
7.00	1.25	0.00	0.00	58.00	1.25	0.00	0.00
8.00	1.25	0.00	0.00	59.00	1.25	0.00	0.00
9.00	1.25	0.00	0.00	60.00	1.25	0.00	0.00
10.00	1.25	0.00	0.00	61.00	1.25	0.00	0.00
11.00	1.25	0.00	0.00	62.00	1.25	0.00	0.00
12.00	1.25	0.00	0.00	63.00	1.25	0.00	0.00
13.00	1.25	0.00	0.00	64.00	1.25	0.00	0.00
14.00	1.25	0.00	0.00	65.00	1.25	0.00	0.00
15.00	1.25	0.00	0.00	66.00	1.25	0.00	0.00
16.00	1.25	0.00	0.00	67.00	1.25	0.00	0.00
17.00	1.25	0.00	0.00	68.00	1.25	0.00	0.00
18.00	1.25	0.00	0.00	69.00	1.25	0.00	0.00
19.00	1.25	0.00	0.00	70.00	1.25	0.00	0.00
20.00	1.25	0.00	0.00	71.00	1.25	0.00	0.00
21.00	1.25	0.00	0.00	72.00	1.25	0.00	0.00
22.00	1.25	0.00	0.00	73.00	1.25	0.00	0.00
23.00	1.25	0.00	0.00	74.00	1.25	0.00	0.00
24.00	1.25	0.00	0.00	75.00	1.25	0.00	0.00
25.00	1.25	0.00	0.00	76.00	1.25	0.00	0.00
26.00	1.25	0.00	0.00	77.00	1.25	0.00	0.00
27.00	1.25	0.00	0.00	78.00	1.25	0.00	0.00
28.00	1.25	0.00	0.00	79.00	1.25	0.00	0.00
29.00	1.25	0.00	0.00	80.00	1.25	0.00	0.00
30.00	1.25	0.00	0.00	81.00	1.25	0.00	0.00
31.00	1.25	0.00	0.00	82.00	1.25	0.00	0.00
32.00	1.25	0.00	0.00	83.00	1.25	0.00	0.00
33.00	1.25	0.00	0.00	84.00	1.25	0.00	0.00
34.00	1.25	0.00	0.00	85.00	1.25	0.00	0.00
35.00	1.25	0.00	0.00	86.00	1.25	0.00	0.00
36.00	1.25	0.00	0.00	87.00	1.25	0.00	0.00
37.00	1.25	0.00	0.00	88.00	1.25	0.00	0.00
38.00	1.25	0.00	0.00	89.00	1.25	0.00	0.00
39.00	1.25	0.00	0.00	90.00	1.25	0.00	0.00
40.00	1.25	0.00	0.00	91.00	1.25	0.00	0.00
41.00	1.25	0.00	0.00	92.00	1.25	0.00	0.00
42.00	1.25	0.00	0.00	93.00	1.25	0.00	0.00
43.00	1.25	0.00	0.00	94.00	1.25	0.00	0.00
44.00	1.25	0.00	0.00	95.00	1.25	0.00	0.00
45.00	1.25	0.00	0.00	96.00	1.25	0.00	0.00
46.00	1.25	0.00	0.00	97.00	1.25	0.00	0.00
47.00	1.25	0.00	0.00	98.00	1.25	0.00	0.00
48.00	1.25	0.00	0.00	99.00	1.25	0.00	0.00
49.00	1.25	0.00	0.00	100.00	1.25	0.00	0.00
50.00	1.25	0.00	0.00				

Summary for Subcatchment 45S: P-100 PERV

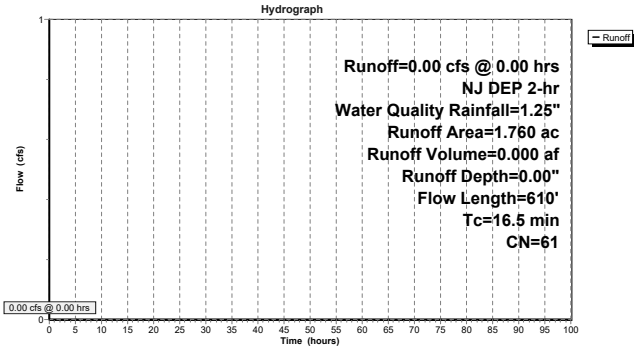
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
0.130	55	Woods, Good, HSG B
1.630	61	>75% Grass cover, Good, HSG B
1.760	61	Weighted Average
1.760		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 45S: P-100 PERV



Hydrograph for Subcatchment 45S: P-100 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	0.00	0.00
1.00	0.63	0.00	0.00	52.00	1.25	0.00	0.00
2.00	1.25	0.00	0.00	53.00	1.25	0.00	0.00
3.00	1.25	0.00	0.00	54.00	1.25	0.00	0.00
4.00	1.25	0.00	0.00	55.00	1.25	0.00	0.00
5.00	1.25	0.00	0.00	56.00	1.25	0.00	0.00
6.00	1.25	0.00	0.00	57.00	1.25	0.00	0.00
7.00	1.25	0.00	0.00	58.00	1.25	0.00	0.00
8.00	1.25	0.00	0.00	59.00	1.25	0.00	0.00
9.00	1.25	0.00	0.00	60.00	1.25	0.00	0.00
10.00	1.25	0.00	0.00	61.00	1.25	0.00	0.00
11.00	1.25	0.00	0.00	62.00	1.25	0.00	0.00
12.00	1.25	0.00	0.00	63.00	1.25	0.00	0.00
13.00	1.25	0.00	0.00	64.00	1.25	0.00	0.00
14.00	1.25	0.00	0.00	65.00	1.25	0.00	0.00
15.00	1.25	0.00	0.00	66.00	1.25	0.00	0.00
16.00	1.25	0.00	0.00	67.00	1.25	0.00	0.00
17.00	1.25	0.00	0.00	68.00	1.25	0.00	0.00
18.00	1.25	0.00	0.00	69.00	1.25	0.00	0.00
19.00	1.25	0.00	0.00	70.00	1.25	0.00	0.00
20.00	1.25	0.00	0.00	71.00	1.25	0.00	0.00
21.00	1.25	0.00	0.00	72.00	1.25	0.00	0.00
22.00	1.25	0.00	0.00	73.00	1.25	0.00	0.00
23.00	1.25	0.00	0.00	74.00	1.25	0.00	0.00
24.00	1.25	0.00	0.00	75.00	1.25	0.00	0.00
25.00	1.25	0.00	0.00	76.00	1.25	0.00	0.00
26.00	1.25	0.00	0.00	77.00	1.25	0.00	0.00
27.00	1.25	0.00	0.00	78.00	1.25	0.00	0.00
28.00	1.25	0.00	0.00	79.00	1.25	0.00	0.00
29.00	1.25	0.00	0.00	80.00	1.25	0.00	0.00
30.00	1.25	0.00	0.00	81.00	1.25	0.00	0.00
31.00	1.25	0.00	0.00	82.00	1.25	0.00	0.00
32.00	1.25	0.00	0.00	83.00	1.25	0.00	0.00
33.00	1.25	0.00	0.00	84.00	1.25	0.00	0.00
34.00	1.25	0.00	0.00	85.00	1.25	0.00	0.00
35.00	1.25	0.00	0.00	86.00	1.25	0.00	0.00
36.00	1.25	0.00	0.00	87.00	1.25	0.00	0.00
37.00	1.25	0.00	0.00	88.00	1.25	0.00	0.00
38.00	1.25	0.00	0.00	89.00	1.25	0.00	0.00
39.00	1.25	0.00	0.00	90.00	1.25	0.00	0.00
40.00	1.25	0.00	0.00	91.00	1.25	0.00	0.00
41.00	1.25	0.00	0.00	92.00	1.25	0.00	0.00
42.00	1.25	0.00	0.00	93.00	1.25	0.00	0.00
43.00	1.25	0.00	0.00	94.00	1.25	0.00	0.00
44.00	1.25	0.00	0.00	95.00	1.25	0.00	0.00
45.00	1.25	0.00	0.00	96.00	1.25	0.00	0.00
46.00	1.25	0.00	0.00	97.00	1.25	0.00	0.00
47.00	1.25	0.00	0.00	98.00	1.25	0.00	0.00
48.00	1.25	0.00	0.00	99.00	1.25	0.00	0.00
49.00	1.25	0.00	0.00	100.00	1.25	0.00	0.00
50.00	1.25	0.00	0.00				

Summary for Subcatchment 46S: P-200 PERV

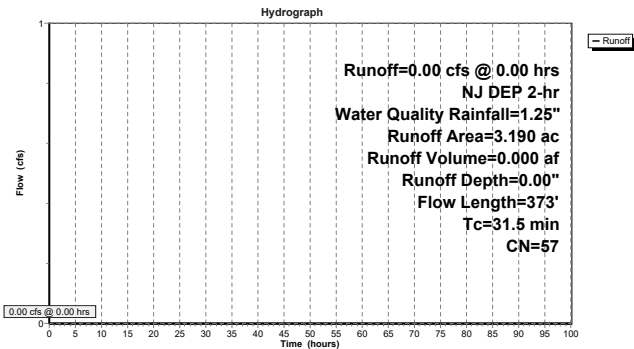
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
2.070	55	Woods, Good, HSG B
0.000	30	Woods, Good, HSG A
1.110	61	>75% Grass cover, Good, HSG B
0.010	39	>75% Grass cover, Good, HSG A
3.190	57	Weighted Average
3.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 46S: P-200 PERV



Hydrograph for Subcatchment 46S: P-200 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	0.00	0.00
1.00	0.63	0.00	0.00	52.00	1.25	0.00	0.00
2.00	1.25	0.00	0.00	53.00	1.25	0.00	0.00
3.00	1.25	0.00	0.00	54.00	1.25	0.00	0.00
4.00	1.25	0.00	0.00	55.00	1.25	0.00	0.00
5.00	1.25	0.00	0.00	56.00	1.25	0.00	0.00
6.00	1.25	0.00	0.00	57.00	1.25	0.00	0.00
7.00	1.25	0.00	0.00	58.00	1.25	0.00	0.00
8.00	1.25	0.00	0.00	59.00	1.25	0.00	0.00
9.00	1.25	0.00	0.00	60.00	1.25	0.00	0.00
10.00	1.25	0.00	0.00	61.00	1.25	0.00	0.00
11.00	1.25	0.00	0.00	62.00	1.25	0.00	0.00
12.00	1.25	0.00	0.00	63.00	1.25	0.00	0.00
13.00	1.25	0.00	0.00	64.00	1.25	0.00	0.00
14.00	1.25	0.00	0.00	65.00	1.25	0.00	0.00
15.00	1.25	0.00	0.00	66.00	1.25	0.00	0.00
16.00	1.25	0.00	0.00	67.00	1.25	0.00	0.00
17.00	1.25	0.00	0.00	68.00	1.25	0.00	0.00
18.00	1.25	0.00	0.00	69.00	1.25	0.00	0.00
19.00	1.25	0.00	0.00	70.00	1.25	0.00	0.00
20.00	1.25	0.00	0.00	71.00	1.25	0.00	0.00
21.00	1.25	0.00	0.00	72.00	1.25	0.00	0.00
22.00	1.25	0.00	0.00	73.00	1.25	0.00	0.00
23.00	1.25	0.00	0.00	74.00	1.25	0.00	0.00
24.00	1.25	0.00	0.00	75.00	1.25	0.00	0.00
25.00	1.25	0.00	0.00	76.00	1.25	0.00	0.00
26.00	1.25	0.00	0.00	77.00	1.25	0.00	0.00
27.00	1.25	0.00	0.00	78.00	1.25	0.00	0.00
28.00	1.25	0.00	0.00	79.00	1.25	0.00	0.00
29.00	1.25	0.00	0.00	80.00	1.25	0.00	0.00
30.00	1.25	0.00	0.00	81.00	1.25	0.00	0.00
31.00	1.25	0.00	0.00	82.00	1.25	0.00	0.00
32.00	1.25	0.00	0.00	83.00	1.25	0.00	0.00
33.00	1.25	0.00	0.00	84.00	1.25	0.00	0.00
34.00	1.25	0.00	0.00	85.00	1.25	0.00	0.00
35.00	1.25	0.00	0.00	86.00	1.25	0.00	0.00
36.00	1.25	0.00	0.00	87.00	1.25	0.00	0.00
37.00	1.25	0.00	0.00	88.00	1.25	0.00	0.00
38.00	1.25	0.00	0.00	89.00	1.25	0.00	0.00
39.00	1.25	0.00	0.00	90.00	1.25	0.00	0.00
40.00	1.25	0.00	0.00	91.00	1.25	0.00	0.00
41.00	1.25	0.00	0.00	92.00	1.25	0.00	0.00
42.00	1.25	0.00	0.00	93.00	1.25	0.00	0.00
43.00	1.25	0.00	0.00	94.00	1.25	0.00	0.00
44.00	1.25	0.00	0.00	95.00	1.25	0.00	0.00
45.00	1.25	0.00	0.00	96.00	1.25	0.00	0.00
46.00	1.25	0.00	0.00	97.00	1.25	0.00	0.00
47.00	1.25	0.00	0.00	98.00	1.25	0.00	0.00
48.00	1.25	0.00	0.00	99.00	1.25	0.00	0.00
49.00	1.25	0.00	0.00	100.00	1.25	0.00	0.00
50.00	1.25	0.00	0.00				

Summary for Subcatchment 47S: P-300 PERV

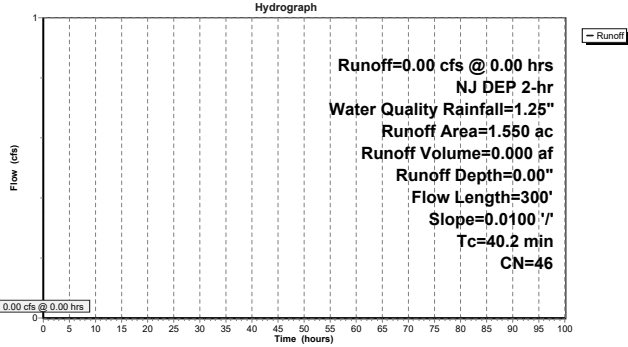
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
0.010	30	Woods, Good, HSG A
0.450	55	Woods, Good, HSG B
0.190	61	>75% Grass cover, Good, HSG B
0.900	39	>75% Grass cover, Good, HSG A
1.550	46	Weighted Average
1.550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 47S: P-300 PERV



Hydrograph for Subcatchment 47S: P-300 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	0.00	0.00
1.00	0.63	0.00	0.00	52.00	1.25	0.00	0.00
2.00	1.25	0.00	0.00	53.00	1.25	0.00	0.00
3.00	1.25	0.00	0.00	54.00	1.25	0.00	0.00
4.00	1.25	0.00	0.00	55.00	1.25	0.00	0.00
5.00	1.25	0.00	0.00	56.00	1.25	0.00	0.00
6.00	1.25	0.00	0.00	57.00	1.25	0.00	0.00
7.00	1.25	0.00	0.00	58.00	1.25	0.00	0.00
8.00	1.25	0.00	0.00	59.00	1.25	0.00	0.00
9.00	1.25	0.00	0.00	60.00	1.25	0.00	0.00
10.00	1.25	0.00	0.00	61.00	1.25	0.00	0.00
11.00	1.25	0.00	0.00	62.00	1.25	0.00	0.00
12.00	1.25	0.00	0.00	63.00	1.25	0.00	0.00
13.00	1.25	0.00	0.00	64.00	1.25	0.00	0.00
14.00	1.25	0.00	0.00	65.00	1.25	0.00	0.00
15.00	1.25	0.00	0.00	66.00	1.25	0.00	0.00
16.00	1.25	0.00	0.00	67.00	1.25	0.00	0.00
17.00	1.25	0.00	0.00	68.00	1.25	0.00	0.00
18.00	1.25	0.00	0.00	69.00	1.25	0.00	0.00
19.00	1.25	0.00	0.00	70.00	1.25	0.00	0.00
20.00	1.25	0.00	0.00	71.00	1.25	0.00	0.00
21.00	1.25	0.00	0.00	72.00	1.25	0.00	0.00
22.00	1.25	0.00	0.00	73.00	1.25	0.00	0.00
23.00	1.25	0.00	0.00	74.00	1.25	0.00	0.00
24.00	1.25	0.00	0.00	75.00	1.25	0.00	0.00
25.00	1.25	0.00	0.00	76.00	1.25	0.00	0.00
26.00	1.25	0.00	0.00	77.00	1.25	0.00	0.00
27.00	1.25	0.00	0.00	78.00	1.25	0.00	0.00
28.00	1.25	0.00	0.00	79.00	1.25	0.00	0.00
29.00	1.25	0.00	0.00	80.00	1.25	0.00	0.00
30.00	1.25	0.00	0.00	81.00	1.25	0.00	0.00
31.00	1.25	0.00	0.00	82.00	1.25	0.00	0.00
32.00	1.25	0.00	0.00	83.00	1.25	0.00	0.00
33.00	1.25	0.00	0.00	84.00	1.25	0.00	0.00
34.00	1.25	0.00	0.00	85.00	1.25	0.00	0.00
35.00	1.25	0.00	0.00	86.00	1.25	0.00	0.00
36.00	1.25	0.00	0.00	87.00	1.25	0.00	0.00
37.00	1.25	0.00	0.00	88.00	1.25	0.00	0.00
38.00	1.25	0.00	0.00	89.00	1.25	0.00	0.00
39.00	1.25	0.00	0.00	90.00	1.25	0.00	0.00
40.00	1.25	0.00	0.00	91.00	1.25	0.00	0.00
41.00	1.25	0.00	0.00	92.00	1.25	0.00	0.00
42.00	1.25	0.00	0.00	93.00	1.25	0.00	0.00
43.00	1.25	0.00	0.00	94.00	1.25	0.00	0.00
44.00	1.25	0.00	0.00	95.00	1.25	0.00	0.00
45.00	1.25	0.00	0.00	96.00	1.25	0.00	0.00
46.00	1.25	0.00	0.00	97.00	1.25	0.00	0.00
47.00	1.25	0.00	0.00	98.00	1.25	0.00	0.00
48.00	1.25	0.00	0.00	99.00	1.25	0.00	0.00
49.00	1.25	0.00	0.00	100.00	1.25	0.00	0.00
50.00	1.25	0.00	0.00				

Summary for Subcatchment 48S: P-400 PERV

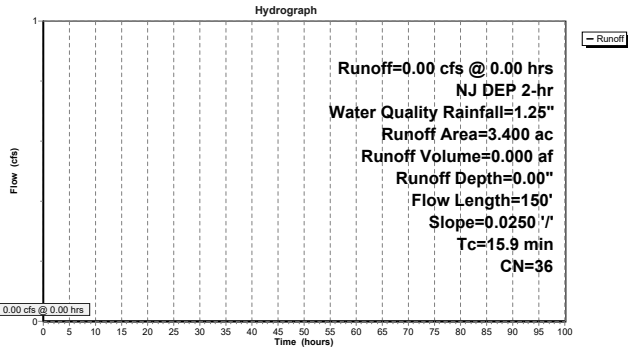
Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
0.540	55	Woods, Good, HSG B
1.940	30	Woods, Good, HSG A
0.920	39	>75% Grass cover, Good, HSG A
3.400	36	Weighted Average
3.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 48S: P-400 PERV



Hydrograph for Subcatchment 48S: P-400 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	0.00	0.00
1.00	0.63	0.00	0.00	52.00	1.25	0.00	0.00
2.00	1.25	0.00	0.00	53.00	1.25	0.00	0.00
3.00	1.25	0.00	0.00	54.00	1.25	0.00	0.00
4.00	1.25	0.00	0.00	55.00	1.25	0.00	0.00
5.00	1.25	0.00	0.00	56.00	1.25	0.00	0.00
6.00	1.25	0.00	0.00	57.00	1.25	0.00	0.00
7.00	1.25	0.00	0.00	58.00	1.25	0.00	0.00
8.00	1.25	0.00	0.00	59.00	1.25	0.00	0.00
9.00	1.25	0.00	0.00	60.00	1.25	0.00	0.00
10.00	1.25	0.00	0.00	61.00	1.25	0.00	0.00
11.00	1.25	0.00	0.00	62.00	1.25	0.00	0.00
12.00	1.25	0.00	0.00	63.00	1.25	0.00	0.00
13.00	1.25	0.00	0.00	64.00	1.25	0.00	0.00
14.00	1.25	0.00	0.00	65.00	1.25	0.00	0.00
15.00	1.25	0.00	0.00	66.00	1.25	0.00	0.00
16.00	1.25	0.00	0.00	67.00	1.25	0.00	0.00
17.00	1.25	0.00	0.00	68.00	1.25	0.00	0.00
18.00	1.25	0.00	0.00	69.00	1.25	0.00	0.00
19.00	1.25	0.00	0.00	70.00	1.25	0.00	0.00
20.00	1.25	0.00	0.00	71.00	1.25	0.00	0.00
21.00	1.25	0.00	0.00	72.00	1.25	0.00	0.00
22.00	1.25	0.00	0.00	73.00	1.25	0.00	0.00
23.00	1.25	0.00	0.00	74.00	1.25	0.00	0.00
24.00	1.25	0.00	0.00	75.00	1.25	0.00	0.00
25.00	1.25	0.00	0.00	76.00	1.25	0.00	0.00
26.00	1.25	0.00	0.00	77.00	1.25	0.00	0.00
27.00	1.25	0.00	0.00	78.00	1.25	0.00	0.00
28.00	1.25	0.00	0.00	79.00	1.25	0.00	0.00
29.00	1.25	0.00	0.00	80.00	1.25	0.00	0.00
30.00	1.25	0.00	0.00	81.00	1.25	0.00	0.00
31.00	1.25	0.00	0.00	82.00	1.25	0.00	0.00
32.00	1.25	0.00	0.00	83.00	1.25	0.00	0.00
33.00	1.25	0.00	0.00	84.00	1.25	0.00	0.00
34.00	1.25	0.00	0.00	85.00	1.25	0.00	0.00
35.00	1.25	0.00	0.00	86.00	1.25	0.00	0.00
36.00	1.25	0.00	0.00	87.00	1.25	0.00	0.00
37.00	1.25	0.00	0.00	88.00	1.25	0.00	0.00
38.00	1.25	0.00	0.00	89.00	1.25	0.00	0.00
39.00	1.25	0.00	0.00	90.00	1.25	0.00	0.00
40.00	1.25	0.00	0.00	91.00	1.25	0.00	0.00
41.00	1.25	0.00	0.00	92.00	1.25	0.00	0.00
42.00	1.25	0.00	0.00	93.00	1.25	0.00	0.00
43.00	1.25	0.00	0.00	94.00	1.25	0.00	0.00
44.00	1.25	0.00	0.00	95.00	1.25	0.00	0.00
45.00	1.25	0.00	0.00	96.00	1.25	0.00	0.00
46.00	1.25	0.00	0.00	97.00	1.25	0.00	0.00
47.00	1.25	0.00	0.00	98.00	1.25	0.00	0.00
48.00	1.25	0.00	0.00	99.00	1.25	0.00	0.00
49.00	1.25	0.00	0.00	100.00	1.25	0.00	0.00
50.00	1.25	0.00	0.00				

Summary for Subcatchment 49S: P-100 IMP

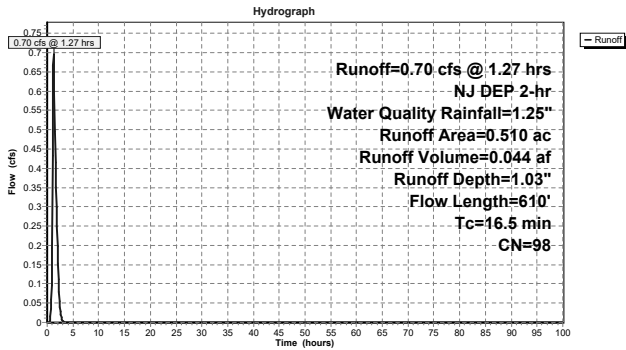
Runoff = 0.70 cfs @ 1.27 hrs, Volume= 0.044 af, Depth= 1.03"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
* 0.510	98	Unconnected pavement
0.510		100.00% Impervious Area
0.510		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	150	0.0275	0.21		Sheet Flow, Sheet Flow Grass: Short n= 0.150 P2= 3.30"
4.8	460	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
16.5	610				Total

Subcatchment 49S: P-100 IMP



Hydrograph for Subcatchment 49S: P-100 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	1.03	0.00
1.00	0.63	0.43	0.19	52.00	1.25	1.03	0.00
2.00	1.25	1.03	0.20	53.00	1.25	1.03	0.00
3.00	1.25	1.03	0.00	54.00	1.25	1.03	0.00
4.00	1.25	1.03	0.00	55.00	1.25	1.03	0.00
5.00	1.25	1.03	0.00	56.00	1.25	1.03	0.00
6.00	1.25	1.03	0.00	57.00	1.25	1.03	0.00
7.00	1.25	1.03	0.00	58.00	1.25	1.03	0.00
8.00	1.25	1.03	0.00	59.00	1.25	1.03	0.00
9.00	1.25	1.03	0.00	60.00	1.25	1.03	0.00
10.00	1.25	1.03	0.00	61.00	1.25	1.03	0.00
11.00	1.25	1.03	0.00	62.00	1.25	1.03	0.00
12.00	1.25	1.03	0.00	63.00	1.25	1.03	0.00
13.00	1.25	1.03	0.00	64.00	1.25	1.03	0.00
14.00	1.25	1.03	0.00	65.00	1.25	1.03	0.00
15.00	1.25	1.03	0.00	66.00	1.25	1.03	0.00
16.00	1.25	1.03	0.00	67.00	1.25	1.03	0.00
17.00	1.25	1.03	0.00	68.00	1.25	1.03	0.00
18.00	1.25	1.03	0.00	69.00	1.25	1.03	0.00
19.00	1.25	1.03	0.00	70.00	1.25	1.03	0.00
20.00	1.25	1.03	0.00	71.00	1.25	1.03	0.00
21.00	1.25	1.03	0.00	72.00	1.25	1.03	0.00
22.00	1.25	1.03	0.00	73.00	1.25	1.03	0.00
23.00	1.25	1.03	0.00	74.00	1.25	1.03	0.00
24.00	1.25	1.03	0.00	75.00	1.25	1.03	0.00
25.00	1.25	1.03	0.00	76.00	1.25	1.03	0.00
26.00	1.25	1.03	0.00	77.00	1.25	1.03	0.00
27.00	1.25	1.03	0.00	78.00	1.25	1.03	0.00
28.00	1.25	1.03	0.00	79.00	1.25	1.03	0.00
29.00	1.25	1.03	0.00	80.00	1.25	1.03	0.00
30.00	1.25	1.03	0.00	81.00	1.25	1.03	0.00
31.00	1.25	1.03	0.00	82.00	1.25	1.03	0.00
32.00	1.25	1.03	0.00	83.00	1.25	1.03	0.00
33.00	1.25	1.03	0.00	84.00	1.25	1.03	0.00
34.00	1.25	1.03	0.00	85.00	1.25	1.03	0.00
35.00	1.25	1.03	0.00	86.00	1.25	1.03	0.00
36.00	1.25	1.03	0.00	87.00	1.25	1.03	0.00
37.00	1.25	1.03	0.00	88.00	1.25	1.03	0.00
38.00	1.25	1.03	0.00	89.00	1.25	1.03	0.00
39.00	1.25	1.03	0.00	90.00	1.25	1.03	0.00
40.00	1.25	1.03	0.00	91.00	1.25	1.03	0.00
41.00	1.25	1.03	0.00	92.00	1.25	1.03	0.00
42.00	1.25	1.03	0.00	93.00	1.25	1.03	0.00
43.00	1.25	1.03	0.00	94.00	1.25	1.03	0.00
44.00	1.25	1.03	0.00	95.00	1.25	1.03	0.00
45.00	1.25	1.03	0.00	96.00	1.25	1.03	0.00
46.00	1.25	1.03	0.00	97.00	1.25	1.03	0.00
47.00	1.25	1.03	0.00	98.00	1.25	1.03	0.00
48.00	1.25	1.03	0.00	99.00	1.25	1.03	0.00
49.00	1.25	1.03	0.00	100.00	1.25	1.03	0.00
50.00	1.25	1.03	0.00				

Summary for Subcatchment 50S: P-200 IMP

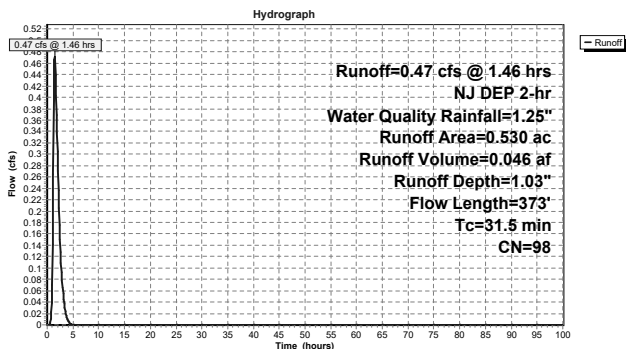
Runoff = 0.47 cfs @ 1.46 hrs, Volume= 0.046 af, Depth= 1.03"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
* 0.530	98	Unconnected pavement
0.530		100.00% Impervious Area
0.530		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.2	150	0.0200	0.09		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
2.3	223	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
31.5	373				Total

Subcatchment 50S: P-200 IMP



Hydrograph for Subcatchment 50S: P-200 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	1.03	0.00
1.00	0.63	0.43	0.07	52.00	1.25	1.03	0.00
2.00	1.25	1.03	0.30	53.00	1.25	1.03	0.00
3.00	1.25	1.03	0.07	54.00	1.25	1.03	0.00
4.00	1.25	1.03	0.01	55.00	1.25	1.03	0.00
5.00	1.25	1.03	0.00	56.00	1.25	1.03	0.00
6.00	1.25	1.03	0.00	57.00	1.25	1.03	0.00
7.00	1.25	1.03	0.00	58.00	1.25	1.03	0.00
8.00	1.25	1.03	0.00	59.00	1.25	1.03	0.00
9.00	1.25	1.03	0.00	60.00	1.25	1.03	0.00
10.00	1.25	1.03	0.00	61.00	1.25	1.03	0.00
11.00	1.25	1.03	0.00	62.00	1.25	1.03	0.00
12.00	1.25	1.03	0.00	63.00	1.25	1.03	0.00
13.00	1.25	1.03	0.00	64.00	1.25	1.03	0.00
14.00	1.25	1.03	0.00	65.00	1.25	1.03	0.00
15.00	1.25	1.03	0.00	66.00	1.25	1.03	0.00
16.00	1.25	1.03	0.00	67.00	1.25	1.03	0.00
17.00	1.25	1.03	0.00	68.00	1.25	1.03	0.00
18.00	1.25	1.03	0.00	69.00	1.25	1.03	0.00
19.00	1.25	1.03	0.00	70.00	1.25	1.03	0.00
20.00	1.25	1.03	0.00	71.00	1.25	1.03	0.00
21.00	1.25	1.03	0.00	72.00	1.25	1.03	0.00
22.00	1.25	1.03	0.00	73.00	1.25	1.03	0.00
23.00	1.25	1.03	0.00	74.00	1.25	1.03	0.00
24.00	1.25	1.03	0.00	75.00	1.25	1.03	0.00
25.00	1.25	1.03	0.00	76.00	1.25	1.03	0.00
26.00	1.25	1.03	0.00	77.00	1.25	1.03	0.00
27.00	1.25	1.03	0.00	78.00	1.25	1.03	0.00
28.00	1.25	1.03	0.00	79.00	1.25	1.03	0.00
29.00	1.25	1.03	0.00	80.00	1.25	1.03	0.00
30.00	1.25	1.03	0.00	81.00	1.25	1.03	0.00
31.00	1.25	1.03	0.00	82.00	1.25	1.03	0.00
32.00	1.25	1.03	0.00	83.00	1.25	1.03	0.00
33.00	1.25	1.03	0.00	84.00	1.25	1.03	0.00
34.00	1.25	1.03	0.00	85.00	1.25	1.03	0.00
35.00	1.25	1.03	0.00	86.00	1.25	1.03	0.00
36.00	1.25	1.03	0.00	87.00	1.25	1.03	0.00
37.00	1.25	1.03	0.00	88.00	1.25	1.03	0.00
38.00	1.25	1.03	0.00	89.00	1.25	1.03	0.00
39.00	1.25	1.03	0.00	90.00	1.25	1.03	0.00
40.00	1.25	1.03	0.00	91.00	1.25	1.03	0.00
41.00	1.25	1.03	0.00	92.00	1.25	1.03	0.00
42.00	1.25	1.03	0.00	93.00	1.25	1.03	0.00
43.00	1.25	1.03	0.00	94.00	1.25	1.03	0.00
44.00	1.25	1.03	0.00	95.00	1.25	1.03	0.00
45.00	1.25	1.03	0.00	96.00	1.25	1.03	0.00
46.00	1.25	1.03	0.00	97.00	1.25	1.03	0.00
47.00	1.25	1.03	0.00	98.00	1.25	1.03	0.00
48.00	1.25	1.03	0.00	99.00	1.25	1.03	0.00
49.00	1.25	1.03	0.00	100.00	1.25	1.03	0.00
50.00	1.25	1.03	0.00				

Summary for Subcatchment 51S: P-300 IMP

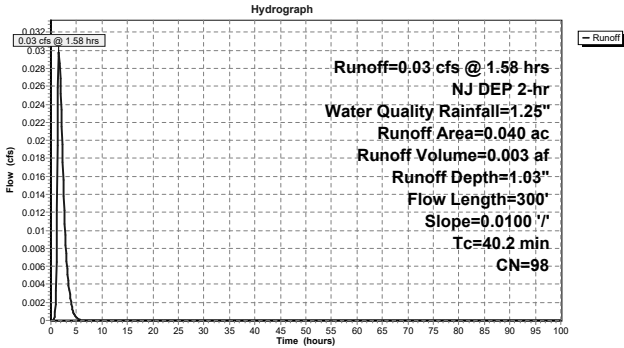
Runoff = 0.03 cfs @ 1.58 hrs, Volume= 0.003 af, Depth= 1.03"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
0.040	98	Unconnected pavement
0.040		100.00% Impervious Area
0.040		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.6	150	0.0100	0.06		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
1.6	150	0.0100	1.61		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
40.2	300				Total

Subcatchment 51S: P-300 IMP



Hydrograph for Subcatchment 51S: P-300 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	1.03	0.00
1.00	0.63	0.43	0.00	52.00	1.25	1.03	0.00
2.00	1.25	1.03	0.02	53.00	1.25	1.03	0.00
3.00	1.25	1.03	0.01	54.00	1.25	1.03	0.00
4.00	1.25	1.03	0.00	55.00	1.25	1.03	0.00
5.00	1.25	1.03	0.00	56.00	1.25	1.03	0.00
6.00	1.25	1.03	0.00	57.00	1.25	1.03	0.00
7.00	1.25	1.03	0.00	58.00	1.25	1.03	0.00
8.00	1.25	1.03	0.00	59.00	1.25	1.03	0.00
9.00	1.25	1.03	0.00	60.00	1.25	1.03	0.00
10.00	1.25	1.03	0.00	61.00	1.25	1.03	0.00
11.00	1.25	1.03	0.00	62.00	1.25	1.03	0.00
12.00	1.25	1.03	0.00	63.00	1.25	1.03	0.00
13.00	1.25	1.03	0.00	64.00	1.25	1.03	0.00
14.00	1.25	1.03	0.00	65.00	1.25	1.03	0.00
15.00	1.25	1.03	0.00	66.00	1.25	1.03	0.00
16.00	1.25	1.03	0.00	67.00	1.25	1.03	0.00
17.00	1.25	1.03	0.00	68.00	1.25	1.03	0.00
18.00	1.25	1.03	0.00	69.00	1.25	1.03	0.00
19.00	1.25	1.03	0.00	70.00	1.25	1.03	0.00
20.00	1.25	1.03	0.00	71.00	1.25	1.03	0.00
21.00	1.25	1.03	0.00	72.00	1.25	1.03	0.00
22.00	1.25	1.03	0.00	73.00	1.25	1.03	0.00
23.00	1.25	1.03	0.00	74.00	1.25	1.03	0.00
24.00	1.25	1.03	0.00	75.00	1.25	1.03	0.00
25.00	1.25	1.03	0.00	76.00	1.25	1.03	0.00
26.00	1.25	1.03	0.00	77.00	1.25	1.03	0.00
27.00	1.25	1.03	0.00	78.00	1.25	1.03	0.00
28.00	1.25	1.03	0.00	79.00	1.25	1.03	0.00
29.00	1.25	1.03	0.00	80.00	1.25	1.03	0.00
30.00	1.25	1.03	0.00	81.00	1.25	1.03	0.00
31.00	1.25	1.03	0.00	82.00	1.25	1.03	0.00
32.00	1.25	1.03	0.00	83.00	1.25	1.03	0.00
33.00	1.25	1.03	0.00	84.00	1.25	1.03	0.00
34.00	1.25	1.03	0.00	85.00	1.25	1.03	0.00
35.00	1.25	1.03	0.00	86.00	1.25	1.03	0.00
36.00	1.25	1.03	0.00	87.00	1.25	1.03	0.00
37.00	1.25	1.03	0.00	88.00	1.25	1.03	0.00
38.00	1.25	1.03	0.00	89.00	1.25	1.03	0.00
39.00	1.25	1.03	0.00	90.00	1.25	1.03	0.00
40.00	1.25	1.03	0.00	91.00	1.25	1.03	0.00
41.00	1.25	1.03	0.00	92.00	1.25	1.03	0.00
42.00	1.25	1.03	0.00	93.00	1.25	1.03	0.00
43.00	1.25	1.03	0.00	94.00	1.25	1.03	0.00
44.00	1.25	1.03	0.00	95.00	1.25	1.03	0.00
45.00	1.25	1.03	0.00	96.00	1.25	1.03	0.00
46.00	1.25	1.03	0.00	97.00	1.25	1.03	0.00
47.00	1.25	1.03	0.00	98.00	1.25	1.03	0.00
48.00	1.25	1.03	0.00	99.00	1.25	1.03	0.00
49.00	1.25	1.03	0.00	100.00	1.25	1.03	0.00
50.00	1.25	1.03	0.00				

Summary for Subcatchment 52S: P-400 IMP

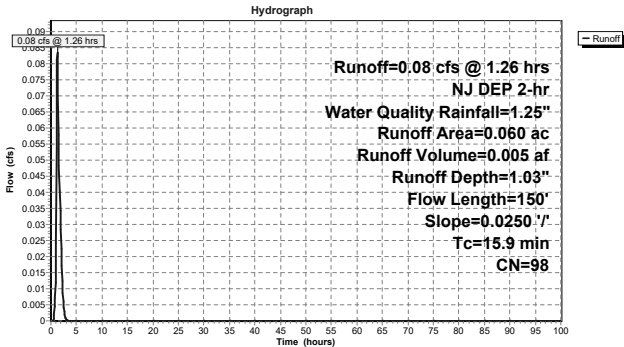
Runoff = 0.08 cfs @ 1.26 hrs, Volume= 0.005 af, Depth= 1.03"

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 NJ DEP 2-hr Water Quality Rainfall=1.25"

Area (ac)	CN	Description
0.060	98	Unconnected pavement
0.060		100.00% Impervious Area
0.060		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.4	75	0.0250	0.08		Sheet Flow, Sheet Flow Woods: Light underbrush n= 0.400 P2= 3.30"
0.5	75	0.0250	2.55		Shallow Concentrated Flow, Shallow Concentrated Unpaved Kv= 16.1 fps
15.9	150				Total

Subcatchment 52S: P-400 IMP



Hydrograph for Subcatchment 52S: P-400 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	51.00	1.25	1.03	0.00
1.00	0.63	0.43	0.02	52.00	1.25	1.03	0.00
2.00	1.25	1.03	0.02	53.00	1.25	1.03	0.00
3.00	1.25	1.03	0.00	54.00	1.25	1.03	0.00
4.00	1.25	1.03	0.00	55.00	1.25	1.03	0.00
5.00	1.25	1.03	0.00	56.00	1.25	1.03	0.00
6.00	1.25	1.03	0.00	57.00	1.25	1.03	0.00
7.00	1.25	1.03	0.00	58.00	1.25	1.03	0.00
8.00	1.25	1.03	0.00	59.00	1.25	1.03	0.00
9.00	1.25	1.03	0.00	60.00	1.25	1.03	0.00
10.00	1.25	1.03	0.00	61.00	1.25	1.03	0.00
11.00	1.25	1.03	0.00	62.00	1.25	1.03	0.00
12.00	1.25	1.03	0.00	63.00	1.25	1.03	0.00
13.00	1.25	1.03	0.00	64.00	1.25	1.03	0.00
14.00	1.25	1.03	0.00	65.00	1.25	1.03	0.00
15.00	1.25	1.03	0.00	66.00	1.25	1.03	0.00
16.00	1.25	1.03	0.00	67.00	1.25	1.03	0.00
17.00	1.25	1.03	0.00	68.00	1.25	1.03	0.00
18.00	1.25	1.03	0.00	69.00	1.25	1.03	0.00
19.00	1.25	1.03	0.00	70.00	1.25	1.03	0.00
20.00	1.25	1.03	0.00	71.00	1.25	1.03	0.00
21.00	1.25	1.03	0.00	72.00	1.25	1.03	0.00
22.00	1.25	1.03	0.00	73.00	1.25	1.03	0.00
23.00	1.25	1.03	0.00	74.00	1.25	1.03	0.00
24.00	1.25	1.03	0.00	75.00	1.25	1.03	0.00
25.00	1.25	1.03	0.00	76.00	1.25	1.03	0.00
26.00	1.25	1.03	0.00	77.00	1.25	1.03	0.00
27.00	1.25	1.03	0.00	78.00	1.25	1.03	0.00
28.00	1.25	1.03	0.00	79.00	1.25	1.03	0.00
29.00	1.25	1.03	0.00	80.00	1.25	1.03	0.00
30.00	1.25	1.03	0.00	81.00	1.25	1.03	0.00
31.00	1.25	1.03	0.00	82.00	1.25	1.03	0.00
32.00	1.25	1.03	0.00	83.00	1.25	1.03	0.00
33.00	1.25	1.03	0.00	84.00	1.25	1.03	0.00
34.00	1.25	1.03	0.00	85.00	1.25	1.03	0.00
35.00	1.25	1.03	0.00	86.00	1.25	1.03	0.00
36.00	1.25	1.03	0.00	87.00	1.25	1.03	0.00
37.00	1.25	1.03	0.00	88.00	1.25	1.03	0.00
38.00	1.25	1.03	0.00	89.00	1.25	1.03	0.00
39.00	1.25	1.03	0.00	90.00	1.25	1.03	0.00
40.00	1.25	1.03	0.00	91.00	1.25	1.03	0.00
41.00	1.25	1.03	0.00	92.00	1.25	1.03	0.00
42.00	1.25	1.03	0.00	93.00	1.25	1.03	0.00
43.00	1.25	1.03	0.00	94.00	1.25	1.03	0.00
44.00	1.25	1.03	0.00	95.00	1.25	1.03	0.00
45.00	1.25	1.03	0.00	96.00	1.25	1.03	0.00
46.00	1.25	1.03	0.00	97.00	1.25	1.03	0.00
47.00	1.25	1.03	0.00	98.00	1.25	1.03	0.00
48.00	1.25	1.03	0.00	99.00	1.25	1.03	0.00
49.00	1.25	1.03	0.00	100.00	1.25	1.03	0.00
50.00	1.25	1.03	0.00				

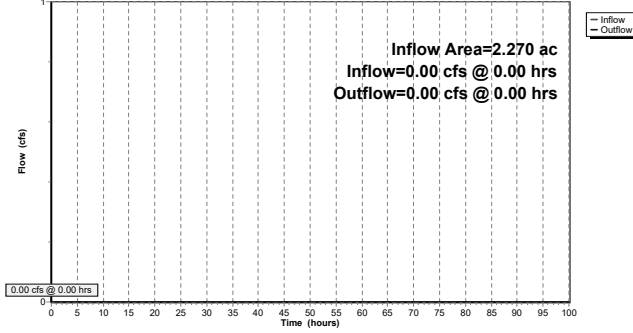
Summary for Reach 6R: E-100

Inflow Area = 2.270 ac, 0.00% Impervious, Inflow Depth = 0.00" for Water Quality event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 6R: E-100

Hydrograph



Hydrograph for Reach 6R: E-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

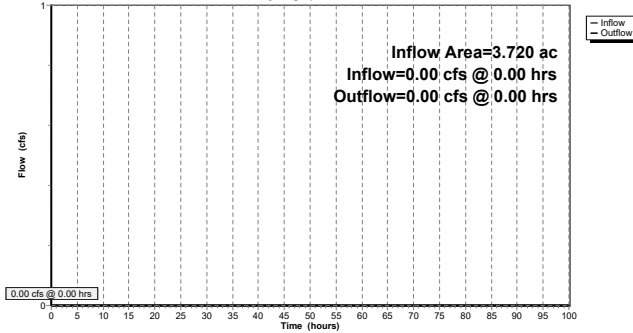
Summary for Reach 7R: E-200

Inflow Area = 3.720 ac, 0.00% Impervious, Inflow Depth = 0.00" for Water Quality event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 7R: E-200

Hydrograph



Hydrograph for Reach 7R: E-200

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

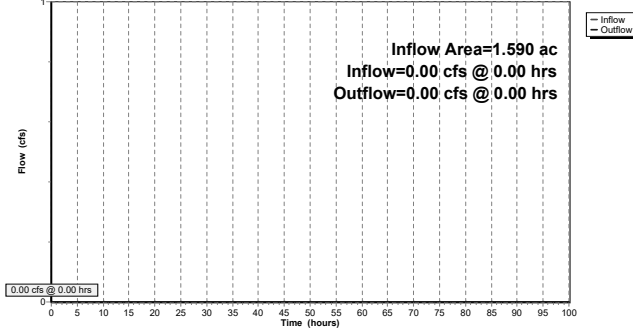
Summary for Reach 8R: E-300

Inflow Area = 1.590 ac, 0.00% Impervious, Inflow Depth = 0.00" for Water Quality event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 8R: E-300

Hydrograph



Hydrograph for Reach 8R: E-300

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

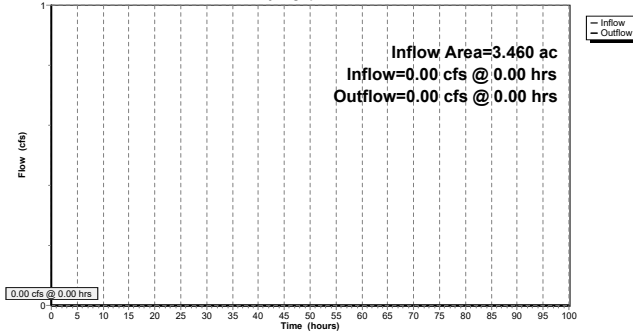
Summary for Reach 22R: E-400

Inflow Area = 3.460 ac, 0.00% Impervious, Inflow Depth = 0.00" for Water Quality event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 22R: E-400

Hydrograph



Hydrograph for Reach 22R: E-400

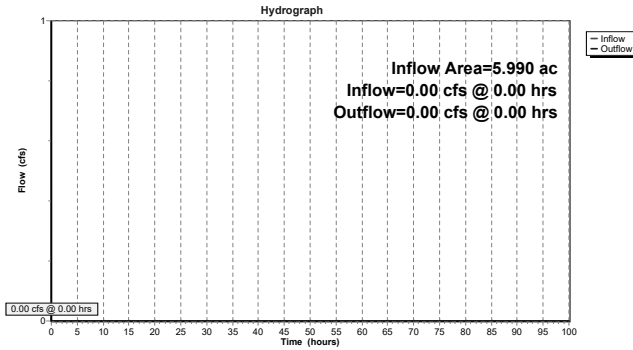
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 23R: E-POA "A"

Inflow Area = 5.990 ac, 0.00% Impervious, Inflow Depth = 0.00" for Water Quality event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 23R: E-POA "A"



Hydrograph for Reach 23R: E-POA "A"

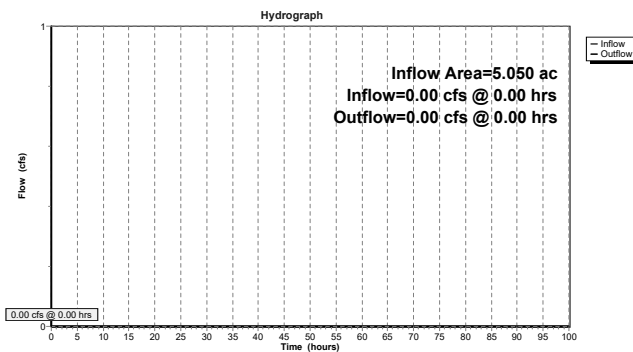
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 25R: E-POA "B"

Inflow Area = 5.050 ac, 0.00% Impervious, Inflow Depth = 0.00" for Water Quality event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 25R: E-POA "B"



Hydrograph for Reach 25R: E-POA "B"

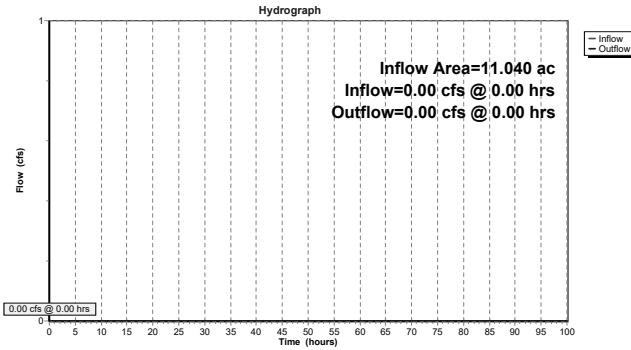
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 26R: E-POA

Inflow Area = 11.040 ac, 0.00% Impervious, Inflow Depth = 0.00" for Water Quality event
 Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 26R: E-POA



Hydrograph for Reach 26R: E-POA

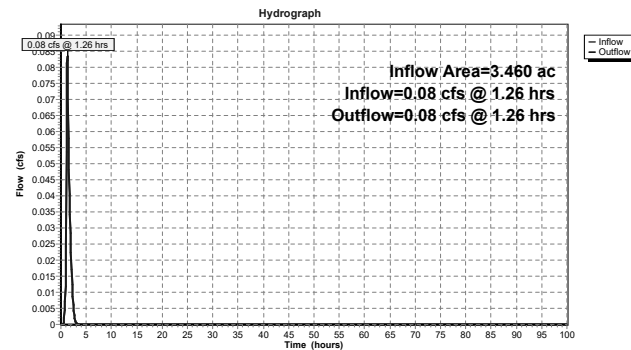
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.00		0.00	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 38R: P-400

Inflow Area = 3.460 ac, 1.73% Impervious, Inflow Depth = 0.02" for Water Quality event
 Inflow = 0.08 cfs @ 1.26 hrs, Volume= 0.005 af
 Outflow = 0.08 cfs @ 1.26 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 38R: P-400



Hydrograph for Reach 38R: P-400

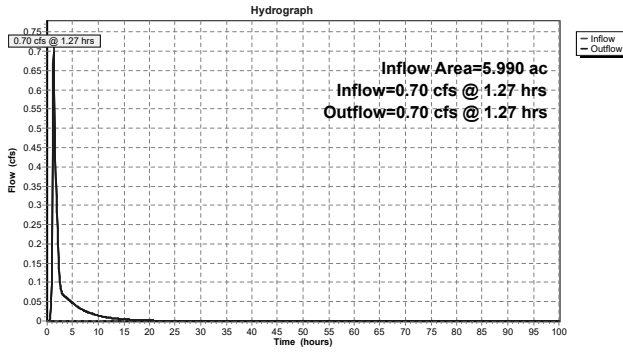
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.00		0.00	52.00	0.00		0.00
2.00	0.02		0.02	53.00	0.00		0.00
3.00	0.02		0.02	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 39R: P-POA "A"

Inflow Area = 5.990 ac, 17.36% Impervious, Inflow Depth = 0.15" for Water Quality event
 Inflow = 0.70 cfs @ 1.27 hrs, Volume= 0.075 af
 Outflow = 0.70 cfs @ 1.27 hrs, Volume= 0.075 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 39R: P-POA "A"



Hydrograph for Reach 39R: P-POA "A"

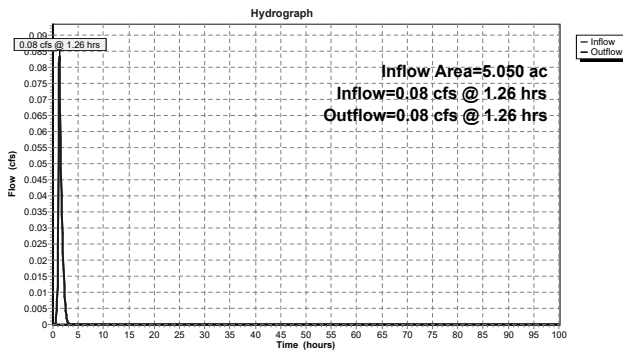
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.19		0.19	52.00	0.00		0.00
2.00	0.24		0.24	53.00	0.00		0.00
3.00	0.07		0.07	54.00	0.00		0.00
4.00	0.06		0.06	55.00	0.00		0.00
5.00	0.05		0.05	56.00	0.00		0.00
6.00	0.04		0.04	57.00	0.00		0.00
7.00	0.03		0.03	58.00	0.00		0.00
8.00	0.02		0.02	59.00	0.00		0.00
9.00	0.02		0.02	60.00	0.00		0.00
10.00	0.01		0.01	61.00	0.00		0.00
11.00	0.01		0.01	62.00	0.00		0.00
12.00	0.01		0.01	63.00	0.00		0.00
13.00	0.01		0.01	64.00	0.00		0.00
14.00	0.01		0.01	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 40R: P-POA "B"

Inflow Area = 5.050 ac, 1.98% Impervious, Inflow Depth = 0.01" for Water Quality event
 Inflow = 0.08 cfs @ 1.26 hrs, Volume= 0.005 af
 Outflow = 0.08 cfs @ 1.26 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 40R: P-POA "B"



Hydrograph for Reach 40R: P-POA "B"

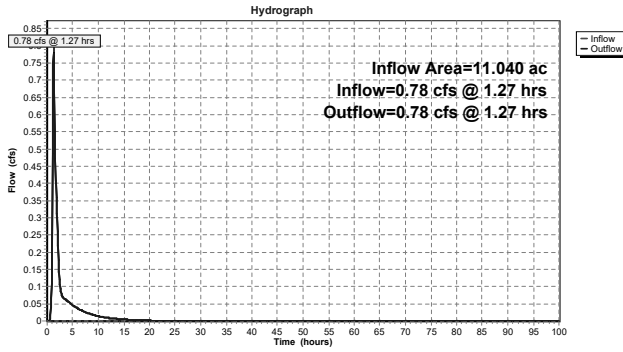
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.02		0.02	52.00	0.00		0.00
2.00	0.02		0.02	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 41R: P-POA

Inflow Area = 11.040 ac, 10.33% Impervious, Inflow Depth = 0.09" for Water Quality event
 Inflow = 0.78 cfs @ 1.27 hrs, Volume= 0.080 af
 Outflow = 0.78 cfs @ 1.27 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 41R: P-POA



Hydrograph for Reach 41R: P-POA

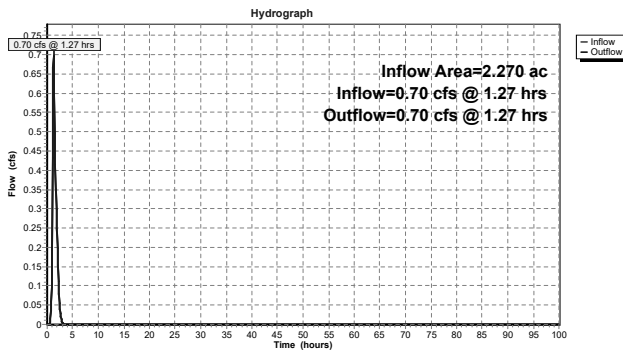
Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.22		0.22	52.00	0.00		0.00
2.00	0.26		0.26	53.00	0.00		0.00
3.00	0.07		0.07	54.00	0.00		0.00
4.00	0.06		0.06	55.00	0.00		0.00
5.00	0.05		0.05	56.00	0.00		0.00
6.00	0.04		0.04	57.00	0.00		0.00
7.00	0.03		0.03	58.00	0.00		0.00
8.00	0.02		0.02	59.00	0.00		0.00
9.00	0.02		0.02	60.00	0.00		0.00
10.00	0.01		0.01	61.00	0.00		0.00
11.00	0.01		0.01	62.00	0.00		0.00
12.00	0.01		0.01	63.00	0.00		0.00
13.00	0.01		0.01	64.00	0.00		0.00
14.00	0.01		0.01	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Reach 46R: P-100

Inflow Area = 2.270 ac, 22.47% Impervious, Inflow Depth = 0.23" for Water Quality event
 Inflow = 0.70 cfs @ 1.27 hrs, Volume= 0.044 af
 Outflow = 0.70 cfs @ 1.27 hrs, Volume= 0.044 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs

Reach 46R: P-100



Hydrograph for Reach 46R: P-100

Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Outflow (cfs)
0.00	0.00		0.00	51.00	0.00		0.00
1.00	0.19		0.19	52.00	0.00		0.00
2.00	0.20		0.20	53.00	0.00		0.00
3.00	0.00		0.00	54.00	0.00		0.00
4.00	0.00		0.00	55.00	0.00		0.00
5.00	0.00		0.00	56.00	0.00		0.00
6.00	0.00		0.00	57.00	0.00		0.00
7.00	0.00		0.00	58.00	0.00		0.00
8.00	0.00		0.00	59.00	0.00		0.00
9.00	0.00		0.00	60.00	0.00		0.00
10.00	0.00		0.00	61.00	0.00		0.00
11.00	0.00		0.00	62.00	0.00		0.00
12.00	0.00		0.00	63.00	0.00		0.00
13.00	0.00		0.00	64.00	0.00		0.00
14.00	0.00		0.00	65.00	0.00		0.00
15.00	0.00		0.00	66.00	0.00		0.00
16.00	0.00		0.00	67.00	0.00		0.00
17.00	0.00		0.00	68.00	0.00		0.00
18.00	0.00		0.00	69.00	0.00		0.00
19.00	0.00		0.00	70.00	0.00		0.00
20.00	0.00		0.00	71.00	0.00		0.00
21.00	0.00		0.00	72.00	0.00		0.00
22.00	0.00		0.00	73.00	0.00		0.00
23.00	0.00		0.00	74.00	0.00		0.00
24.00	0.00		0.00	75.00	0.00		0.00
25.00	0.00		0.00	76.00	0.00		0.00
26.00	0.00		0.00	77.00	0.00		0.00
27.00	0.00		0.00	78.00	0.00		0.00
28.00	0.00		0.00	79.00	0.00		0.00
29.00	0.00		0.00	80.00	0.00		0.00
30.00	0.00		0.00	81.00	0.00		0.00
31.00	0.00		0.00	82.00	0.00		0.00
32.00	0.00		0.00	83.00	0.00		0.00
33.00	0.00		0.00	84.00	0.00		0.00
34.00	0.00		0.00	85.00	0.00		0.00
35.00	0.00		0.00	86.00	0.00		0.00
36.00	0.00		0.00	87.00	0.00		0.00
37.00	0.00		0.00	88.00	0.00		0.00
38.00	0.00		0.00	89.00	0.00		0.00
39.00	0.00		0.00	90.00	0.00		0.00
40.00	0.00		0.00	91.00	0.00		0.00
41.00	0.00		0.00	92.00	0.00		0.00
42.00	0.00		0.00	93.00	0.00		0.00
43.00	0.00		0.00	94.00	0.00		0.00
44.00	0.00		0.00	95.00	0.00		0.00
45.00	0.00		0.00	96.00	0.00		0.00
46.00	0.00		0.00	97.00	0.00		0.00
47.00	0.00		0.00	98.00	0.00		0.00
48.00	0.00		0.00	99.00	0.00		0.00
49.00	0.00		0.00	100.00	0.00		0.00
50.00	0.00		0.00				

Summary for Pond 43P: P-200 Station 1450 Culvert

Inflow Area = 3.720 ac, 14.25% Impervious, Inflow Depth = 0.15" for Water Quality event
 Inflow = 0.47 cfs @ 1.46 hrs, Volume= 0.046 af
 Outflow = 0.07 cfs @ 3.00 hrs, Volume= 0.031 af, Atten= 86%, Lag= 92.6 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Primary = 0.07 cfs @ 3.00 hrs, Volume= 0.031 af

Routing by Stor-Ind method, Time Span=0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 146.85' @ 3.00 hrs Surf.Area= 3,215 sf Storage= 1,534 cf

Plug-Flow detention time= 291.3 min calculated for 0.031 af (68% of inflow)
 Center-of-Mass det. time= 269.5 min (382.7 - 113.2)

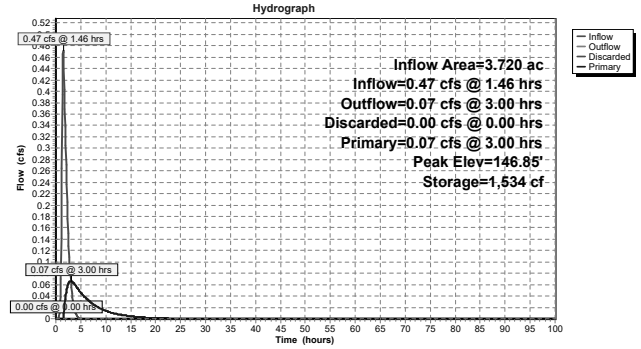
Volume	Invert	Avail.Storage	Storage Description
#1	143.50'	30,636 cf	Custom Stage Data (Prismatic), Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
143.50	4	0	0
145.58	10	15	15
146.00	245	54	68
147.00	3,750	1,998	2,066
148.00	13,020	8,385	10,451
149.00	27,350	20,185	30,636

Device	Routing	Invert	Outlet Devices
#1	Discarded	1,000.00'	1,000 in/hr Exfiltration over Surface area above 1,000.00' Conductivity to Groundwater Elevation = 140.00' Excluded Surface area = 27,350 sf Limited to weir flow at low heads
#2	Primary	146.50'	2.0" x 2.0" Horiz. Orifice/Grate C= 0.600
#3	Device 2	145.58'	12.0" Round Culvert L= 60.0' RCP, end-section conforming to fill, Ke= 0.500 Inlet/Outlet Inverts= 145.58' / 145.00' S= 0.0097' / Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

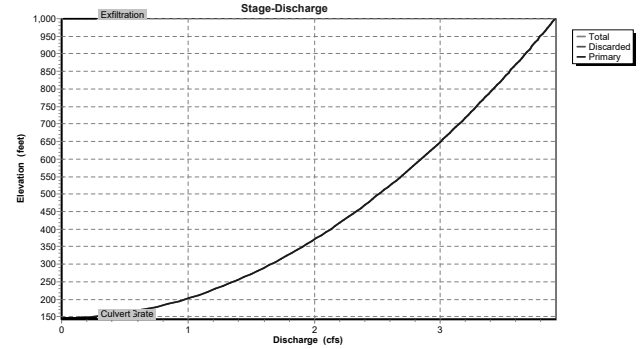
Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=143.50' (Free Discharge)
 1=Exfiltration (Controls 0.00 cfs)

Primary OutFlow Max=0.08 cfs @ 3.00 hrs HW=146.85' (Free Discharge)
 2=Orifice/Grate (Orifice Controls 0.08 cfs @ 2.84 fps)
 3=Culvert (Passes 0.08 cfs of 2.08 cfs potential flow)

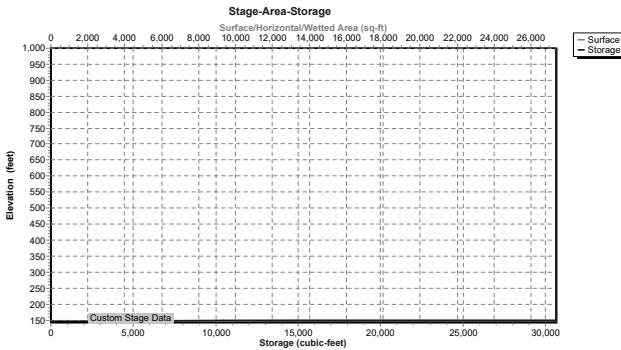
Pond 43P: P-200 Station 1450 Culvert



Pond 43P: P-200 Station 1450 Culvert



Pond 43P: P-200 Station 1450 Culvert



Hydrograph for Pond 43P: P-200 Station 1450 Culvert

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	143.50	0.00	0.00	0.00
2.00	0.30	1,251	146.72	0.04	0.00	0.04
4.00	0.01	1,505	146.80	0.06	0.00	0.06
6.00	0.00	1,181	146.69	0.04	0.00	0.04
8.00	0.00	973	146.62	0.02	0.00	0.02
10.00	0.00	843	146.57	0.01	0.00	0.01
12.00	0.00	762	146.55	0.01	0.00	0.01
14.00	0.00	712	146.53	0.01	0.00	0.01
16.00	0.00	680	146.52	0.00	0.00	0.00
18.00	0.00	661	146.51	0.00	0.00	0.00
20.00	0.00	649	146.51	0.00	0.00	0.00
22.00	0.00	641	146.50	0.00	0.00	0.00
24.00	0.00	636	146.50	0.00	0.00	0.00
26.00	0.00	634	146.50	0.00	0.00	0.00
28.00	0.00	632	146.50	0.00	0.00	0.00
30.00	0.00	631	146.50	0.00	0.00	0.00
32.00	0.00	630	146.50	0.00	0.00	0.00
34.00	0.00	629	146.50	0.00	0.00	0.00
36.00	0.00	629	146.50	0.00	0.00	0.00
38.00	0.00	629	146.50	0.00	0.00	0.00
40.00	0.00	629	146.50	0.00	0.00	0.00
42.00	0.00	629	146.50	0.00	0.00	0.00
44.00	0.00	629	146.50	0.00	0.00	0.00
46.00	0.00	629	146.50	0.00	0.00	0.00
48.00	0.00	629	146.50	0.00	0.00	0.00
50.00	0.00	629	146.50	0.00	0.00	0.00
52.00	0.00	629	146.50	0.00	0.00	0.00
54.00	0.00	629	146.50	0.00	0.00	0.00
56.00	0.00	629	146.50	0.00	0.00	0.00
58.00	0.00	629	146.50	0.00	0.00	0.00
60.00	0.00	629	146.50	0.00	0.00	0.00
62.00	0.00	629	146.50	0.00	0.00	0.00
64.00	0.00	629	146.50	0.00	0.00	0.00
66.00	0.00	629	146.50	0.00	0.00	0.00
68.00	0.00	629	146.50	0.00	0.00	0.00
70.00	0.00	629	146.50	0.00	0.00	0.00
72.00	0.00	629	146.50	0.00	0.00	0.00
74.00	0.00	629	146.50	0.00	0.00	0.00
76.00	0.00	629	146.50	0.00	0.00	0.00
78.00	0.00	629	146.50	0.00	0.00	0.00
80.00	0.00	629	146.50	0.00	0.00	0.00
82.00	0.00	629	146.50	0.00	0.00	0.00
84.00	0.00	629	146.50	0.00	0.00	0.00
86.00	0.00	629	146.50	0.00	0.00	0.00
88.00	0.00	629	146.50	0.00	0.00	0.00
90.00	0.00	629	146.50	0.00	0.00	0.00
92.00	0.00	629	146.50	0.00	0.00	0.00
94.00	0.00	629	146.50	0.00	0.00	0.00
96.00	0.00	629	146.50	0.00	0.00	0.00
98.00	0.00	629	146.50	0.00	0.00	0.00
100.00	0.00	629	146.50	0.00	0.00	0.00

Stage-Discharge for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
143.50	0.00	0.00	0.00	582.10	2.79	0.00	2.79
152.10	0.32	0.00	0.32	590.70	2.82	0.00	2.82
160.70	0.50	0.00	0.50	599.30	2.85	0.00	2.85
169.30	0.64	0.00	0.64	607.90	2.87	0.00	2.87
177.90	0.75	0.00	0.75	616.50	2.90	0.00	2.90
186.50	0.85	0.00	0.85	625.10	2.93	0.00	2.93
195.10	0.93	0.00	0.93	633.70	2.95	0.00	2.95
203.70	1.01	0.00	1.01	642.30	2.98	0.00	2.98
212.30	1.08	0.00	1.08	650.90	3.00	0.00	3.00
220.90	1.15	0.00	1.15	659.50	3.03	0.00	3.03
229.50	1.22	0.00	1.22	668.10	3.05	0.00	3.05
238.10	1.28	0.00	1.28	676.70	3.08	0.00	3.08
246.70	1.34	0.00	1.34	685.30	3.10	0.00	3.10
255.30	1.40	0.00	1.40	693.90	3.13	0.00	3.13
263.90	1.45	0.00	1.45	702.50	3.15	0.00	3.15
272.50	1.50	0.00	1.50	711.10	3.18	0.00	3.18
281.10	1.55	0.00	1.55	719.70	3.20	0.00	3.20
289.70	1.60	0.00	1.60	728.30	3.23	0.00	3.23
298.30	1.65	0.00	1.65	736.90	3.25	0.00	3.25
306.90	1.69	0.00	1.69	745.50	3.27	0.00	3.27
315.50	1.74	0.00	1.74	754.10	3.30	0.00	3.30
324.10	1.78	0.00	1.78	762.70	3.32	0.00	3.32
332.70	1.83	0.00	1.83	771.30	3.34	0.00	3.34
341.30	1.87	0.00	1.87	779.90	3.37	0.00	3.37
349.90	1.91	0.00	1.91	788.50	3.39	0.00	3.39
358.50	1.95	0.00	1.95	797.10	3.41	0.00	3.41
367.10	1.99	0.00	1.99	805.70	3.43	0.00	3.43
375.70	2.02	0.00	2.02	814.30	3.46	0.00	3.46
384.30	2.06	0.00	2.06	822.90	3.48	0.00	3.48
392.90	2.10	0.00	2.10	831.50	3.50	0.00	3.50
401.50	2.14	0.00	2.14	840.10	3.52	0.00	3.52
410.10	2.17	0.00	2.17	848.70	3.54	0.00	3.54
418.70	2.21	0.00	2.21	857.30	3.57	0.00	3.57
427.30	2.24	0.00	2.24	865.90	3.59	0.00	3.59
435.90	2.28	0.00	2.28	874.50	3.61	0.00	3.61
444.50	2.31	0.00	2.31	883.10	3.63	0.00	3.63
453.10	2.34	0.00	2.34	891.70	3.65	0.00	3.65
461.70	2.37	0.00	2.37	900.30	3.67	0.00	3.67
470.30	2.41	0.00	2.41	908.90	3.69	0.00	3.69
478.90	2.44	0.00	2.44	917.50	3.71	0.00	3.71
487.50	2.47	0.00	2.47	926.10	3.73	0.00	3.73
496.10	2.50	0.00	2.50	934.70	3.75	0.00	3.75
504.70	2.53	0.00	2.53	943.30	3.78	0.00	3.78
513.30	2.56	0.00	2.56	951.90	3.80	0.00	3.80
521.90	2.59	0.00	2.59	960.50	3.82	0.00	3.82
530.50	2.62	0.00	2.62	969.10	3.84	0.00	3.84
539.10	2.65	0.00	2.65	977.70	3.86	0.00	3.86
547.70	2.68	0.00	2.68	986.30	3.88	0.00	3.88
556.30	2.71	0.00	2.71	994.90	3.90	0.00	3.90
564.90	2.74	0.00	2.74				
573.50	2.76	0.00	2.76				

Stage-Area-Storage for Pond 43P: P-200 Station 1450 Culvert

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
143.50	4	0	582.10	27,350	30,636
152.10	27,350	30,636	590.70	27,350	30,636
160.70	27,350	30,636	599.30	27,350	30,636
169.30	27,350	30,636	607.90	27,350	30,636
177.90	27,350	30,636	616.50	27,350	30,636
186.50	27,350	30,636	625.10	27,350	30,636
195.10	27,350	30,636	633.70	27,350	30,636
203.70	27,350	30,636	642.30	27,350	30,636
212.30	27,350	30,636	650.90	27,350	30,636
220.90	27,350	30,636	659.50	27,350	30,636
229.50	27,350	30,636	668.10	27,350	30,636
238.10	27,350	30,636	676.70	27,350	30,636
246.70	27,350	30,636	685.30	27,350	30,636
255.30	27,350	30,636	693.90	27,350	30,636
263.90	27,350	30,636	702.50	27,350	30,636
272.50	27,350	30,636	711.10	27,350	30,636
281.10	27,350	30,636	719.70	27,350	30,636
289.70	27,350	30,636	728.30	27,350	30,636
298.30	27,350	30,636	736.90	27,350	30,636
306.90	27,350	30,636	745.50	27,350	30,636
315.50	27,350	30,636	754.10	27,350	30,636
324.10	27,350	30,636	762.70	27,350	30,636
332.70	27,350	30,636	771.30	27,350	30,636
341.30	27,350	30,636	779.90	27,350	30,636
349.90	27,350	30,636	788.50	27,350	30,636
358.50	27,350	30,636	797.10	27,350	30,636
367.10	27,350	30,636	805.70	27,350	30,636
375.70	27,350	30,636	814.30	27,350	30,636
384.30	27,350	30,636	822.90	27,350	30,636
392.90	27,350	30,636	831.50	27,350	30,636
401.50	27,350	30,636	840.10	27,350	30,636
410.10	27,350	30,636	848.70	27,350	30,636
418.70	27,350	30,636	857.30	27,350	30,636
427.30	27,350	30,636	865.90	27,350	30,636
435.90	27,350	30,636	874.50	27,350	30,636
444.50	27,350	30,636	883.10	27,350	30,636
453.10	27,350	30,636	891.70	27,350	30,636
461.70	27,350	30,636	900.30	27,350	30,636
470.30	27,350	30,636	908.90	27,350	30,636
478.90	27,350	30,636	917.50	27,350	30,636
487.50	27,350	30,636	926.10	27,350	30,636
496.10	27,350	30,636	934.70	27,350	30,636
504.70	27,350	30,636	943.30	27,350	30,636
513.30	27,350	30,636	951.90	27,350	30,636
521.90	27,350	30,636	960.50	27,350	30,636
530.50	27,350	30,636	969.10	27,350	30,636
539.10	27,350	30,636	977.70	27,350	30,636
547.70	27,350	30,636	986.30	27,350	30,636
556.30	27,350	30,636	994.90	27,350	30,636
564.90	27,350	30,636			
573.50	27,350	30,636			

Summary for Pond 44P: P-300 Rainwater Garden

Inflow Area = 1.590 ac, 2.52% Impervious, Inflow Depth = 0.03" for Water Quality event
 Inflow = 0.03 cfs @ 1.58 hrs, Volume= 0.003 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-100.00 hrs, dt= 0.10 hrs
 Peak Elev= 147.04' @ 6.50 hrs Surf.Area= 3,452 sf Storage= 147 cf

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

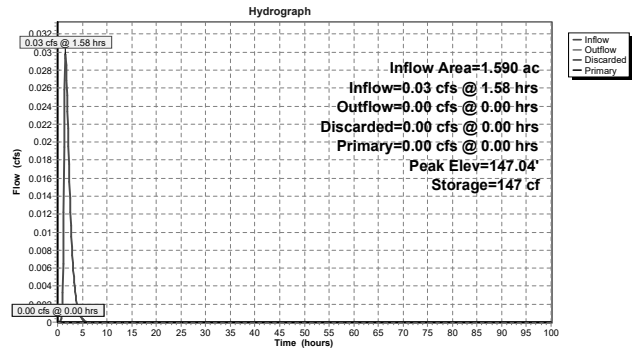
Volume	Invert	Avail.Storage	Storage Description
#1	147.00'	8,800 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
147.00	3,400	0	0
148.00	4,600	4,000	4,000
149.00	5,000	4,800	8,800

Device	Routing	Invert	Outlet Devices
#1	Discarded	1,000.00'	1,000 in/hr Exfiltration over Surface area above 1,000.00' Conductivity to Groundwater Elevation = 140.00' Excluded Surface area = 5,000 sf
#2	Primary	147.16'	Asymmetrical Weir, C= 3.27 Offset (feet) 1,100.00 1,150.00 1,200.00 1,255.00 Elev. (feet) 148.00 147.16 147.91 148.00

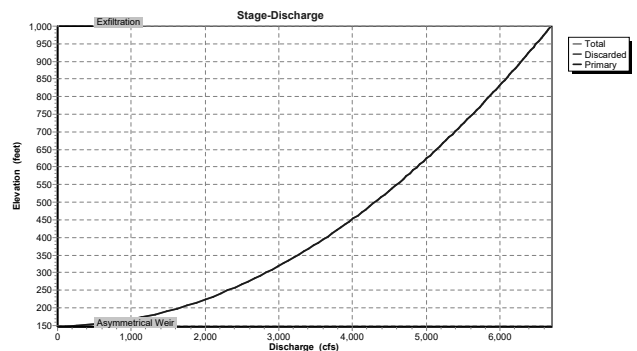
Discarded OutFlow Max=0.00 cfs @ 0.00 hrs HW=147.00' (Free Discharge)
 1=Exfiltration (Controls 0.00 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=147.00' (Free Discharge)
 2=Asymmetrical Weir (Controls 0.00 cfs)

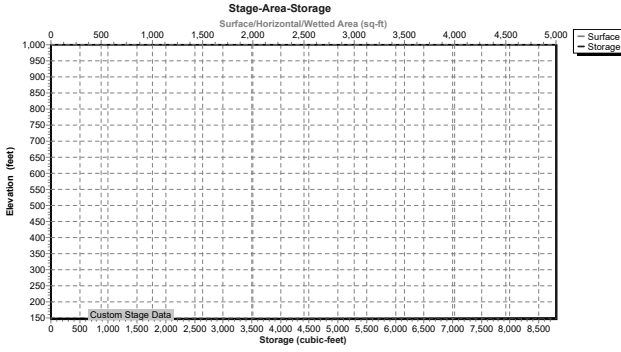
Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Pond 44P: P-300 Rainwater Garden



Hydrograph for Pond 44P: P-300 Rainwater Garden

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	147.00	0.00	0.00	0.00
2.00	0.02	80	147.02	0.00	0.00	0.00
4.00	0.00	147	147.04	0.00	0.00	0.00
6.00	0.00	150	147.04	0.00	0.00	0.00
8.00	0.00	150	147.04	0.00	0.00	0.00
10.00	0.00	150	147.04	0.00	0.00	0.00
12.00	0.00	150	147.04	0.00	0.00	0.00
14.00	0.00	150	147.04	0.00	0.00	0.00
16.00	0.00	150	147.04	0.00	0.00	0.00
18.00	0.00	150	147.04	0.00	0.00	0.00
20.00	0.00	150	147.04	0.00	0.00	0.00
22.00	0.00	150	147.04	0.00	0.00	0.00
24.00	0.00	150	147.04	0.00	0.00	0.00
26.00	0.00	150	147.04	0.00	0.00	0.00
28.00	0.00	150	147.04	0.00	0.00	0.00
30.00	0.00	150	147.04	0.00	0.00	0.00
32.00	0.00	150	147.04	0.00	0.00	0.00
34.00	0.00	150	147.04	0.00	0.00	0.00
36.00	0.00	150	147.04	0.00	0.00	0.00
38.00	0.00	150	147.04	0.00	0.00	0.00
40.00	0.00	150	147.04	0.00	0.00	0.00
42.00	0.00	150	147.04	0.00	0.00	0.00
44.00	0.00	150	147.04	0.00	0.00	0.00
46.00	0.00	150	147.04	0.00	0.00	0.00
48.00	0.00	150	147.04	0.00	0.00	0.00
50.00	0.00	150	147.04	0.00	0.00	0.00
52.00	0.00	150	147.04	0.00	0.00	0.00
54.00	0.00	150	147.04	0.00	0.00	0.00
56.00	0.00	150	147.04	0.00	0.00	0.00
58.00	0.00	150	147.04	0.00	0.00	0.00
60.00	0.00	150	147.04	0.00	0.00	0.00
62.00	0.00	150	147.04	0.00	0.00	0.00
64.00	0.00	150	147.04	0.00	0.00	0.00
66.00	0.00	150	147.04	0.00	0.00	0.00
68.00	0.00	150	147.04	0.00	0.00	0.00
70.00	0.00	150	147.04	0.00	0.00	0.00
72.00	0.00	150	147.04	0.00	0.00	0.00
74.00	0.00	150	147.04	0.00	0.00	0.00
76.00	0.00	150	147.04	0.00	0.00	0.00
78.00	0.00	150	147.04	0.00	0.00	0.00
80.00	0.00	150	147.04	0.00	0.00	0.00
82.00	0.00	150	147.04	0.00	0.00	0.00
84.00	0.00	150	147.04	0.00	0.00	0.00
86.00	0.00	150	147.04	0.00	0.00	0.00
88.00	0.00	150	147.04	0.00	0.00	0.00
90.00	0.00	150	147.04	0.00	0.00	0.00
92.00	0.00	150	147.04	0.00	0.00	0.00
94.00	0.00	150	147.04	0.00	0.00	0.00
96.00	0.00	150	147.04	0.00	0.00	0.00
98.00	0.00	150	147.04	0.00	0.00	0.00
100.00	0.00	150	147.04	0.00	0.00	0.00

Stage-Discharge for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)	Elevation (feet)	Discharge (cfs)	Discarded (cfs)	Primary (cfs)
147.00	0.00	0.00	0.00	583.05	4,781.80	0.00	4,781.80
155.55	640.78	0.00	640.78	591.60	4,828.53	0.00	4,828.53
164.10	927.22	0.00	927.22	600.15	4,874.82	0.00	4,874.82
172.65	1,144.05	0.00	1,144.05	608.70	4,920.66	0.00	4,920.66
181.20	1,325.87	0.00	1,325.87	617.25	4,966.09	0.00	4,966.09
189.75	1,485.61	0.00	1,485.61	625.80	5,011.10	0.00	5,011.10
198.30	1,629.77	0.00	1,629.77	634.35	5,055.71	0.00	5,055.71
206.85	1,762.17	0.00	1,762.17	642.90	5,099.94	0.00	5,099.94
215.40	1,885.30	0.00	1,885.30	651.45	5,143.78	0.00	5,143.78
223.95	2,000.86	0.00	2,000.86	660.00	5,187.25	0.00	5,187.25
232.50	2,110.11	0.00	2,110.11	668.55	5,230.36	0.00	5,230.36
241.05	2,213.97	0.00	2,213.97	677.10	5,273.11	0.00	5,273.11
249.60	2,313.17	0.00	2,313.17	685.65	5,315.53	0.00	5,315.53
258.15	2,408.29	0.00	2,408.29	694.20	5,357.61	0.00	5,357.61
266.70	2,499.79	0.00	2,499.79	702.75	5,399.36	0.00	5,399.36
275.25	2,588.06	0.00	2,588.06	711.30	5,440.78	0.00	5,440.78
283.80	2,673.42	0.00	2,673.42	719.85	5,481.90	0.00	5,481.90
292.35	2,756.13	0.00	2,756.13	728.40	5,522.71	0.00	5,522.71
300.90	2,836.43	0.00	2,836.43	736.95	5,563.22	0.00	5,563.22
309.45	2,914.52	0.00	2,914.52	745.50	5,603.44	0.00	5,603.44
318.00	2,990.58	0.00	2,990.58	754.05	5,643.37	0.00	5,643.37
326.55	3,064.74	0.00	3,064.74	762.60	5,683.02	0.00	5,683.02
335.10	3,137.16	0.00	3,137.16	771.15	5,722.40	0.00	5,722.40
343.65	3,207.94	0.00	3,207.94	779.70	5,761.50	0.00	5,761.50
352.20	3,277.19	0.00	3,277.19	788.25	5,800.35	0.00	5,800.35
360.75	3,345.00	0.00	3,345.00	796.80	5,838.93	0.00	5,838.93
369.30	3,411.47	0.00	3,411.47	805.35	5,877.26	0.00	5,877.26
377.85	3,476.67	0.00	3,476.67	813.90	5,915.35	0.00	5,915.35
386.40	3,540.67	0.00	3,540.67	822.45	5,953.19	0.00	5,953.19
394.95	3,603.53	0.00	3,603.53	831.00	5,990.79	0.00	5,990.79
403.50	3,665.32	0.00	3,665.32	839.55	6,028.15	0.00	6,028.15
412.05	3,726.08	0.00	3,726.08	848.10	6,065.29	0.00	6,065.29
420.60	3,785.86	0.00	3,785.86	856.65	6,102.20	0.00	6,102.20
429.15	3,844.72	0.00	3,844.72	865.20	6,138.89	0.00	6,138.89
437.70	3,902.68	0.00	3,902.68	873.75	6,175.36	0.00	6,175.36
446.25	3,959.80	0.00	3,959.80	882.30	6,211.61	0.00	6,211.61
454.80	4,016.11	0.00	4,016.11	890.85	6,247.66	0.00	6,247.66
463.35	4,071.64	0.00	4,071.64	899.40	6,283.50	0.00	6,283.50
471.90	4,126.42	0.00	4,126.42	907.95	6,319.13	0.00	6,319.13
480.45	4,180.48	0.00	4,180.48	916.50	6,354.57	0.00	6,354.57
489.00	4,233.86	0.00	4,233.86	925.05	6,389.81	0.00	6,389.81
497.55	4,286.57	0.00	4,286.57	933.60	6,424.85	0.00	6,424.85
506.10	4,338.63	0.00	4,338.63	942.15	6,459.71	0.00	6,459.71
514.65	4,390.09	0.00	4,390.09	950.70	6,494.38	0.00	6,494.38
523.20	4,440.94	0.00	4,440.94	959.25	6,528.86	0.00	6,528.86
531.75	4,491.22	0.00	4,491.22	967.80	6,563.16	0.00	6,563.16
540.30	4,540.94	0.00	4,540.94	976.35	6,597.29	0.00	6,597.29
548.85	4,590.12	0.00	4,590.12	984.90	6,631.24	0.00	6,631.24
557.40	4,638.79	0.00	4,638.79	993.45	6,665.02	0.00	6,665.02
565.95	4,686.94	0.00	4,686.94				
574.50	4,734.61	0.00	4,734.61				

Stage-Area-Storage for Pond 44P: P-300 Rainwater Garden

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
147.00	3,400	0	583.05	5,000	8,800
155.55	5,000	8,800	591.60	5,000	8,800
164.10	5,000	8,800	600.15	5,000	8,800
172.65	5,000	8,800	608.70	5,000	8,800
181.20	5,000	8,800	617.25	5,000	8,800
189.75	5,000	8,800	625.80	5,000	8,800
198.30	5,000	8,800	634.35	5,000	8,800
206.85	5,000	8,800	642.90	5,000	8,800
215.40	5,000	8,800	651.45	5,000	8,800
223.95	5,000	8,800	660.00	5,000	8,800
232.50	5,000	8,800	668.55	5,000	8,800
241.05	5,000	8,800	677.10	5,000	8,800
249.60	5,000	8,800	685.65	5,000	8,800
258.15	5,000	8,800	694.20	5,000	8,800
266.70	5,000	8,800	702.75	5,000	8,800
275.25	5,000	8,800	711.30	5,000	8,800
283.80	5,000	8,800	719.85	5,000	8,800
292.35	5,000	8,800	728.40	5,000	8,800
300.90	5,000	8,800	736.95	5,000	8,800
309.45	5,000	8,800	745.50	5,000	8,800
318.00	5,000	8,800	754.05	5,000	8,800
326.55	5,000	8,800	762.60	5,000	8,800
335.10	5,000	8,800	771.15	5,000	8,800
343.65	5,000	8,800	779.70	5,000	8,800
352.20	5,000	8,800	788.25	5,000	8,800
360.75	5,000	8,800	796.80	5,000	8,800
369.30	5,000	8,800	805.35	5,000	8,800
377.85	5,000	8,800	813.90	5,000	8,800
386.40	5,000	8,800	822.45	5,000	8,800
394.95	5,000	8,800	831.00	5,000	8,800
403.50	5,000	8,800	839.55	5,000	8,800
412.05	5,000	8,800	848.10	5,000	8,800
420.60	5,000	8,800	856.65	5,000	8,800
429.15	5,000	8,800	865.20	5,000	8,800
437.70	5,000	8,800	873.75	5,000	8,800
446.25	5,000	8,800	882.30	5,000	8,800
454.80	5,000	8,800	890.85	5,000</	

APPENDIX B
GROUNDWATER RECHARGE CALCULATIONS

New Jersey
Groundwater
Recharge
Spreadsheet
Version 2.0
November 2003

Annual Groundwater Recharge Analysis (based on GSR-32)

Select Township ↓	Average Annual P (in)	Climatic Factor
GLOUCESTER CO., MONROE TWP	44.0	1.36

Project Name:	Monroe Township Dog Park
Description:	
Analysis Date:	07/31/20

Pre-Developed Conditions					
Land Segment	Area (acres)	TR-55 Land Cover	Soil	Annual Recharge (in)	Annual Recharge (cu.ft)
1	3.1	Open space	Nixon	12.6	141,788
2	1.9	Meadow, Pasture, Grassland or range	Fort Mott	13.3	91,912
3	0.2	Meadow, Pasture, Grassland or range	Nixon	12.3	8,933
4	1.9	Woods	Fort Mott	12.7	87,517
5	3.8	Woods	Nixon	12.3	169,771
6	0				
7	0				
8	0				
9	0				
10	0				
11	0				
12	0				
13	0				
14	0				
15	0				
Total =	10.9			Total Annual Recharge (in) 12.6	Total Annual Recharge (cu-ft) 499,921

Post-Developed Conditions					
Land Segment	Area (acres)	TR-55 Land Cover	Soil	Annual Recharge (in)	Annual Recharge (cu.ft)
1	1.8	Open space	Fort Mott	13.9	90,760
2	2.9	Open space	Nixon	12.6	132,640
3	1.9	Woods	Fort Mott	12.7	87,517
4	3.2	Woods	Nixon	12.3	142,965
5	1.1	Impervious areas	Nixon	0.0	-
6	0				
7	0				
8	0				
9	0				
10	0				
11	0				
12	0				
13	0				
14	0				
15	0				
Total =	10.9			Total Annual Recharge (in) 11.5	Total Annual Recharge (cu.ft) 453,883

Annual Recharge Requirements Calculation ↓			
% of Pre-Developed Annual Recharge to Preserve =	90%	Total Impervious Area (sq.ft)	47,916
Post-Development Annual Recharge Deficit=	-3,953	(cubic feet)	

Recharge Efficiency Parameters Calculations (area averages)			
RWC= #N/A	(in)	DRWC= #N/A	(in)
ERWC = #N/A	(in)	EDRWC= #N/A	(in)

Procedure to fill the Pre-Development and Post-Development Conditions Tables

For each land segment, first enter the area, then select TR-55 Land Cover, then select Soil. Start from the top of the table and proceed downward. Don't leave blank rows (with A=0) in between your segment entries. Rows with A=0 will not be displayed or used in calculations. For impervious areas outside of standard lots select "Impervious Areas" as the Land Cover. Soil type for impervious areas are only required if an infiltration facility will be built within these areas.

Project Name	Description	Analysis Date	BMP or LID Type
Monroe Township Dog Park		07/31/20	

Recharge BMP Input Parameters				Root Zone Water capacity Calculated Parameters				Recharge Design Parameters			
Parameter	Symbol	Value	Unit	Parameter	Symbol	Value	Unit	Parameter	Symbol	Value	Unit
BMP Area	ABMP	3400.0	sq.ft	Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.81	in	Inches of Runoff to capture	Qdesign	0.07	in
BMP Effective Depth, this is the design variable	dBMP	1.0	in	ERWC Modified to consider dEXC	EDRWC	0.81	in	Inches of Rainfall to capture	Pdesign	0.12	in
Upper level of the BMP surface (negative if above ground)	dBMPu	-1.0	in	Empty Portion of RWC under Infiltr. BMP	RERWC	0.64	in	Recharge Provided Avg. over Imp. Area		1.9	in
Depth of lower surface of BMP, must be >= dBMPu	dEXC	0.0	in					Runoff Captured Avg. over imp. Area		5.4	in
Post-development Land Segment Location of BMP, Input Zero if Location is distributed or undetermined	SegBMP	1	unitless								

Parameters from Annual Recharge Worksheet				BMP Calculated Size Parameters				CALCULATION CHECK MESSAGES			
Parameter	Symbol	Value	Unit	Parameter	Symbol	Value	Unit	Parameter	Symbol	Value	Unit
Post-D Deficit Recharge (or desired recharge volume)	Vdef	(3,953)	cu.ft	ABMP/Aimp	Aratio	0.07	unitless	Volume Balance-->		Solve Problem to satisfy Annual Recharge	
Post-D Impervious Area (or target Impervious Area)	Aimp	47,916	sq.ft	BMP Volume	VBMP	283	cu.ft	dBMP Check-->		OK	
Root Zone Water Capacity	RWC	2.54	in	Annual BMP Recharge Volume		7,431	cu.ft	dEXC Check-->		OK	
RWC Modified to consider dEXC	DRWC	2.54	in	Avg BMP Recharge Efficiency		34.2%	Represents % Infiltration Recharged	BMP Location-->		OK	
Climatic Factor	C-factor	1.36	no units	%Rainfall became Runoff		77.6%	%				
Average Annual P	Pavg	44.0	in	%Runoff Infiltrated		15.9%	%				
Recharge Requirement over Imp. Area	dr	(1.0)	in	%Runoff Recharged		5.5%	%				
				%Rainfall Recharged		4.2%	%				

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensitive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP. To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration click the "Default Vdef & Aimp" button.

APPENDIX C

LOW IMPACT DEVELOPMENT CALCULATIONS

NJDEP Nonstructural Strategies Points System (NSPS)

Version: January 31, 2006

Note: Input Values in Yellow Cells Only

Project:

Date:

User:

Notes:

Step 1 - Provide Basic Major Development Site Information

A. Specify Total Area in Acres of Development Site Described in Steps 2 and 3 = Acres

B. Specify by Percent the Various Planning Areas Located within the Development Site:

State Plan Planning Area:	PA-1	PA-2	PA-3	PA-4	PA-4B	PA-5	Total % Area
Percent of Each Planning Area within Site:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="100.0%"/>	<input type="text" value="100.0%"/>

Note: See User's Guide for Equivalent Zones within Designated Centers and the NJ Meadowlands, Pinelands, and Highlands Districts

Step 2 - Describe Existing or Pre-Developed Site Conditions

A. Specify Existing Land Use/Land Cover Descriptions and Areas:

Site Segment	Land Use/Land Cover Description	Specify Land Use/Land Cover in Acres for Each HSG				Use/Cover	Points
		HSG A	HSG B	HSG C	HSG D	Subtotals	
1	Wetlands and Undisturbed Stream Buffers					0.0	0
2	Lawn and Open Space		3.1			3.1	94
3	Brush and Shrub					0.0	0
4	Meadow, Pasture, Grassland, or Range	1.9	0.2			2.1	121
5	Row Crop					0.0	0
6	Small Grain and Legumes					0.0	0
7	Woods - Indigenous	1.9	3.8			5.7	284
8	Woods - Planted					0.0	0
9	Woods and Grass Combination					0.0	0
10	Ponds, Lakes, and Other Open Water					0.0	0
11	Gravel and Dirt					0.0	0
12	Porous and Permeable Paving					0.0	0
13	Directly Connected Impervious					0.0	0
14	Unconnected Impervious with Small D/S Pervious					0.0	0
15	Unconnected Impervious with Large D/S Pervious					0.0	0

HSG Subtotals (Acres):	3.8	7.1	0.0	0.0
HSG Subtotals (%):	34.9%	65.1%	0.0%	0.0%

Total Area:	10.9
Total % Area:	100.0%

Points Subtotal: 499

Total Existing Site Points: 499

Step 3 - Describe Proposed or Post-Developed Site Conditions

A. Specify Proposed Land Use/Land Cover Descriptions and Areas:

Site Segment	Land Use/Land Cover Description	Specify Land Use/Land Cover in Acres for Each HSG				Use/Cover	Points
		HSG A	HSG B	HSG C	HSG D	Subtotals	
1	Wetlands and Undisturbed Stream Buffers					0.0	0
2	Lawn and Open Space	1.8	2.9			4.7	171
3	Brush and Shrub					0.0	0
4	Meadow, Pasture, Grassland, or Range					0.0	0
5	Row Crop					0.0	0
6	Small Grain and Legumes					0.0	0
7	Woods - Indigenous	1.9	3.2			5.1	258
8	Woods - Planted					0.0	0
9	Woods and Grass Combination					0.0	0
10	Ponds, Lakes, and Other Open Water					0.0	0
11	Gravel and Dirt					0.0	0
12	Porous and Permeable Paving					0.0	0
13	Directly Connected Impervious					0.0	0
14	Unconnected Impervious with Small D/S Pervious					0.0	0
15	Unconnected Impervious with Large D/S Pervious	0.1	1.0			1.1	28
HSG Subtotals (Acres):		3.8	7.1	0.0	0.0		
HSG Subtotals (%):		34.9%	65.1%	0.0%	0.0%		
						Total Area:	10.9
						Total % Area:	100.0%
						Points Subtotal:	457

B. Compare Proposed Impervious Coverage with Maximum Allowable Impervious Coverage:

Total Directly Connected Impervious Coverage =	0%	% of Site
Total Unconnected Impervious Coverage with Small D/S Pervious =	0%	% of Site
Total Unconnected Impervious Coverage with Large D/S Pervious =	10%	% of Site
Total Site Impervious Coverage =	10%	% of Site
Effective Site Impervious Coverage =	5%	% of Site

Specify Source of Maximum Allowable Impervious Coverage:

Table

 (None or Table)

Allowable Site Impervious Cover from Maximum Impervious Cover Table:

72%

 Note: See Maximum Impervious Cover Table Worksheet for Details

Points Subtotal:

73

C. Compare Proposed Site Disturbance with Maximum Allowable Site Disturbance:

Total Proposed Site Disturbance =	100%	% of Site
Maximum Allowable Site Disturbance by Municipal Ordinance =	100%	% of Site

Points Subtotal:

0

D. Describe Proposed Runoff Conveyance System:

Total Length of Runoff Conveyance System =	1433	Feet
Length of Vegetated Runoff Conveyance System =	1373	Feet
% of Total Runoff Conveyance System That is Vegetated =	96%	

Points Subtotal:

149

E. Residential Lot Clustering:

Percent of Total Site Area that will be Clustered =	0%	% of Site
Minimum Standard Lot Size as Per Zoning (Note: 1/2 Acre or Greater) =	0.000	Acres
Maximum Proposed Cluster Lot Size (Note: 1/4 Acre or Less) =	0.000	Acres
Percent of Clustered Portion of Site to be Preserved as Vegetated Open Space =	0%	% of Clustered Site Portion

Points Subtotal:

0

F. Will the Following be Utilized to Minimize Soil Compaction?

Proposed Lawn Areas will be Graded with Lightweight Construction Equipment:
Percent of Proposed Lawn Areas to be Graded with Such Equipment:

No	(Yes or No)
100%	% of Lawn Areas

Points Subtotal: **0**

G. Are Any of the Following Stormwater Management Standards Met Using Only Nonstructural Strategies and Measures?

Groundwater Recharge Standards (NJAC 7:8-5.4-a-2):
Stormwater Runoff Quality Standards (NJAC 7:8-5.5):
Stormwater Runoff Quantity Standards (NJAC 7:8-5.4-a-3):

No	(Yes or No)
No	(Yes or No)
No	(Yes or No)

Points Subtotal: **0**

Note: If the Answers to All Three Questions at G Above are "Yes", Adequate Nonstructural Measures have been Utilized.

Total Proposed Site Points: 679

Ratio of Proposed to Existing Site Points: 136%

Required Site Points Ratio: 115%

Nonstructural Point System Results:

Proposed Nonstructural Measures are Adequate

APPENDIX D
DRAINAGE AREA PLANS

