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SECTION 12. STORMWATER MANAGEMENT

This section summarizes the stormwater management analysis conducted for the proposed Project. The stormwater management system for this development must meet the Basic Standards, General Standards, and Flooding Standards of Chapter 500.

12.A Narrative

12.A.1 Development Location

The West Mountain Project site is an approximately 550 acre tract of land that is roughly bounded by the Sugarloaf Access Road to the east, West Mountain Road to the south, and the existing West Mountain Quad ski lift to the west (the "Site"). The Site lies within the surface watershed of the South Branch of the Carrabassett River, which is not classified as an Urban Impaired Stream as listed in Chapter 502 Stormwater Management Rules. Access to the site will be via new access roads and driveways off of Sugarloaf Access Road, West Mountain Access Road, and Bucksaw Drive.

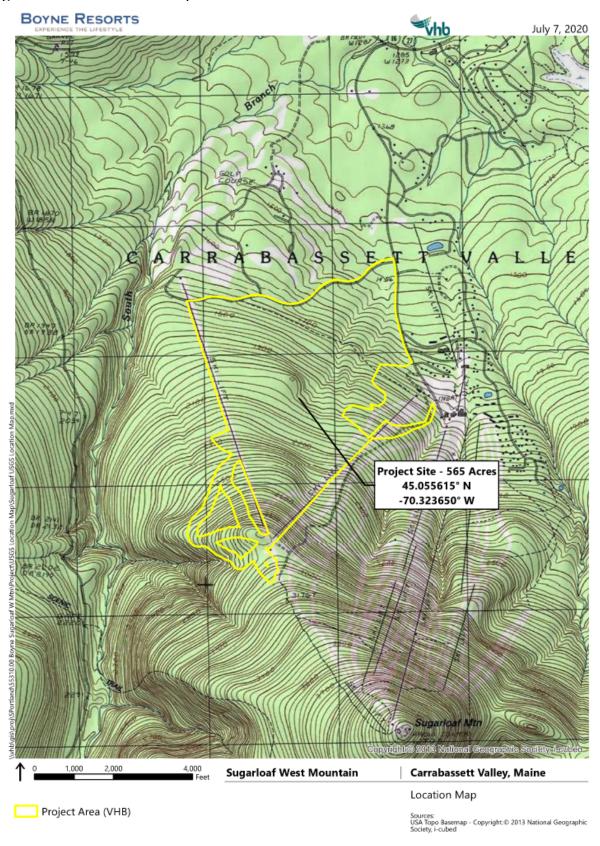
Existing small perennial and intermittent mountain streams generally flow to the north and east across the Site, through several culverts and one bridge at the Sugarloaf Access Road and West Mountain Road and to South Branch of the Carrabassett River. The Project is not located within a lake watershed; therefore, the Phosphorus Standards do not apply. Streams generally increase in size and flow regime moving from west to east across the site (right to left on the accompanying plan views).

Existing land cover consists primarily of previously logged forest lands at lower elevations within mixed deciduous forests. Higher elevations feature pine/fir species. An existing gravel work road transects the site in the east-west direction with a few scattered clearings and miscellaneous staging areas located along the work road. An existing water main corridor crosses the Site approximately halfway up the slope.

12.A.2 General Topography

The Site ranges in elevation from approximately 3,000 feet above mean sea level (amsl) at its south extent at the top of West Mountain to approximately 1,430 feet amsl at the northeast corner of the site. Project area topography is fairly steep with slopes ranging from 10% to 45%. Within portion of the Site to be used for housing development, slopes are in the 12%-20% range. Figure 12-1 below depicts general topography on a USGS quad map. Localized topography around the larger streams includes some gully formations, but the majority of streams onsite are smaller intermittent channels with little gullying.

Figure 12-1. Site Location Map



12.A.3 Flooding

The Site where development will occur is located within Zone X (areas determined to be outside of the 0.2% annual chance floodplain) as shown on the Flood Insurance Rate Map 2300560010B, effective May 30, 1990 and 2300560025B, effective May 3, 1990. A copy of the flood zone maps is included in Section 19 of the application.

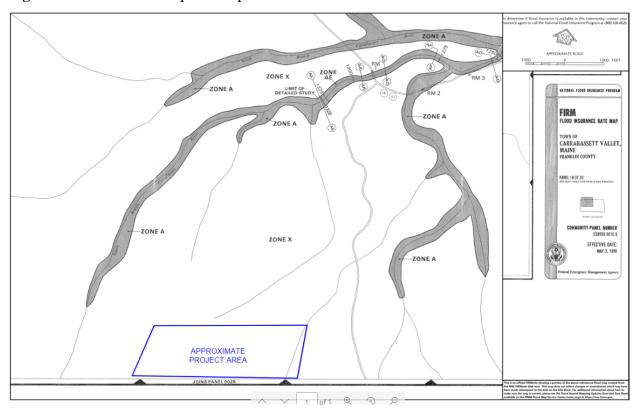


Figure 12-2. FEMA Floodplain Map

12.A.4 Soils Map

Soil survey mapping, verified by a Maine Certified Soil Scientist, is provided in Section 11: Soils. As determined in the pre-application meeting, high intensity soil survey mapping is only focused on the areas where more dense development is proposed. The medium intensity soil survey mapping obtained from the NRCS *Soil Survey of Franklin County, Maine* was used for the remaining portions of the Site and is included in the drainage plans provided in Appendix 12-1. Additional test pits were also performed on site to verify hydrologic soil type in addition to

other soil characteristics in accordance with Chapter 500. These logs are included in Section 11 of the application.

12.A.5 Alterations to Land Cover

Within the Site, approximately 218 acres will be disturbed during the construction of the ski terrain, facilities, parking, condominiums and duplex townhome development, as well as roadway, utility, and stormwater management infrastructure. Approximately 17.9 acres of impervious surface will be developed for the ski terrain, skier parking lots, condominium and duplex townhomes and associated parking lots, and roadways serving the single-family lots. Following construction, the areas of proposed ski terrain and the new lift line will be revegetated with grass that will be not be mowed more than once per twelve-month period. Due the infrequent mowing and the dense vegetation that is expected to become established at the ski terrain, ski terrain associated with the Project does not meet the definition of a Developed Area as established in Chapter 500. Note that the land cover conversion from HSG D "woods in good condition" CN=77 to ski trail "meadow in good condition" CN=78, itself does not represent a significant increase in runoff generation for proposed trail areas.

Single Family Lots

Because the exact configuration of buildout of the individual 54 of single-family homes is not known at this time, the amount of developed area and proposed impervious cover for each of the lots has been assumed based upon lot size. These proposed areas are summarized in Table 12-1 and are incorporated into the post-development modeling of Appendix 12-2. For the single-family homes, the amount of developed area and amount of total impervious surface is approximately 24.5 acres and 16 acres, respectively, for runoff calculation purposes. The Project will ensure conformance with these assumptions via the Sugarloaf architectural review board and a series of restrictive covenants. These covenants will establish the post-construction stormwater management measures prescribed for the single-family homes as well as the maximum allowable clearing on the land and maximum impervious cover, ESC measures, etc. Prior to development of each single-family lot, the owner will be required to submit for Sugarloaf's approval a plan depicting these features and prepared by a professional engineer registered and licensed in the

state of Maine. Sugarloaf and Boyne Resorts have used this approach successfully for similar past projects.

The Applicant wishes to maintain voluntary visual forested 100-foot-wide buffers to the extent practicable along the existing Access Road and West Mountain Road. Stormwater management facilities, skier parking lots and entry points to new Project access roads will be located within this 100-foot buffer where no feasible alternative locations for these facilities is available.

12.B Stormwater Runoff Analysis

12.B.1 Alterations to Natural Drainage Ways

Wherever possible, existing drainage and grading patterns were maintained in the proposed design. Some unavoidable rerouting of flow occurs due to the need to collect, treat, and discharge managed stormwater from a given area that may currently drain to two different culverts under West Mountain Road. In this instance, the goal of the proposed stormwater BMPs is to match or reduce peak flow at any one study point up to the 25-year 24-hour type II event.

The Project utilizes open bottom arch culverts at all significant intermittent or perennial stream channel crossings as part of an effort to preserve aquatic organism passage with the Project area. In addition, 13 existing perched culverts will be removed from existing streams, and the associated stream channel restored.

12.B.2 Modeling Assumptions

VHB analyzed the stormwater runoff characteristics of the proposed Project using the SCS TR-20 methodology. The hydrologic program HydroCAD, as developed by HydroCAD Software Solutions, LLC., was utilized to compute and develop the stormwater runoff model. HydroCAD's SCS TR-20 program is designed to model complex watersheds, such as the watershed analyzed in this report. The complexity of the watershed has been based on multiple land uses (surface conditions) with varying soil conditions and inter-connected subwatersheds reflecting complex hydrologic flow patterns.

The pre-development stormwater analysis consists of twenty-four separate subwatersheds totaling approximately 630 acres in size, approximately two thirds of which are contributing offsite drainage areas. Twenty-four study points (SP1 through SP24) are the analysis points for each of the subwatersheds of the pre- and post-development analysis.

The post-development stormwater analysis consists of the same area, analyzed as one hundred separate subcatchments contributing to the same 24 study points analyzed under predevelopment conditions. Times of concentration for offsite areas was changed for pre- to post-development conditions in response to anticipated proposed drainage patterns.

Due to the size of the Project and the stormwater runoff model, this application section does not include modeling of each culvert and stormwater collection line anticipated to be constructed at the site. Certain pipe nodes in the accompanying modeling are still unpopulated with data, pending determination of compliance with treatment standards. Once the proposed stormwater strategy has preliminary approval, the applicant can provide modeling of key pipe crossings and collection and conveyance features as needed for DEP review. It should be noted that short pipe runs contribute very little additional lag time in the model which is not expected to significantly impact modeling results.

12.B.3 Design Storms

VHB analyzed the site and stormwater features during the 2-, 10- and 25-year design storms. These rainfall events are based on a 24-hour storm duration using a Type II distribution curve for Franklin County. The rainfall amounts of 2.4, 3.4, and 4.2 inches, respectively, are taken from Appendix H. of Chapter 500.

12.B.4 Curve Number

VHB developed weighted curve numbers (CN) for each subwatershed based on the different ground covers and hydrologic soil group types found within each area. All curve numbers were based upon the SCS TR-20 methodology and are included in the Stormwater Calculation Package located in Appendix 12-2. As described above it should be noted that that the land cover conversion from HSG D "woods in good condition" CN=77 to ski trail " meadow in good

condition" CN=78, itself does not represent a significant increase in runoff generation for proposed trail areas.

12.B.5 Time of Concentration Calculations

VHB calculated the Time of Concentrations (Tc) for each of the individual subwatersheds using the hydraulically most distant point within each area. The length of the sheet flow component of each Tc flow path was estimated using NRCS NEH Chapter 15, equation 15-9 methodology with site specific ground cover type and slopes of the subcatchment surface. Due to the large nature and long overland flow paths found at the site, Tc flowpaths within certain large subcatchments have numerous flow segments. The Tc's for concentrated flows are based upon SCS TR-55 methodology and are tabulated in the accompanying HydroCAD output in the Stormwater Calculation Package located in Appendix 12-2.

12.B.6 Drainage Plans

Drainage plans have been developed that show contours, cover types, soil groups, subwatershed boundaries and analysis points, hydrologic flow lines, time of concentration flow lines, existing features, and drainage ways for both pre- and post- development conditions. The Pre-Development Drainage Plan and the Post-Development Drainage Plans for the proposed Project are provided in Appendix 12-2. Due to the relatively large size of the Site, and to allow for intuitive review of the Project drainage patterns, these plans have been provided at 1" =200' scale and 1" =300 scale.

12.B.7 Peak Discharge Runoff Rates

Peak discharge rates are compared at the 24 Study Points along West Mountain Road. A summary of pre- and post-development peak discharge stormwater runoff rates for each analyzed subwatershed is provided in Table 12-4 in the Flooding Standards section 12.E below.

Of the 24 Study Points, only six locations correspond to where a delineated intermittent or perennial stream directly connects to a crossing structure at West Mountain Road. Study Point 1 represents the location where the largest onsite stream flows under West Mountain Road. A simple steel beam bridge with wood decking spans this crossing. This is one of two locations

associated with a perennial stream, the other being at SP-6, which flows through a wetland before crossing under the road in an existing pipe culvert. The remaining stream crossings (SP's 4, 12, 13, 20) are all intermittent streams that cross under the road generally in 18" or 24" diameter metal or HDPE culverts. The remaining SPs are also all 18" to 24" culvert pipes fed from wet weather event flow originating from the Site and surrounding area, but no delineated or intermittent channels are directly connected to these pipes.

12.C Basic Standards

The Basic Standards apply to all projects that require either a Stormwater Management Law or Site Law permit. Erosion and Sedimentation Control, Inspection and Maintenance and Housekeeping standards are required for submission to meet the standard.

12.C.1 Erosion and Sedimentation Control Plan

In accordance with the Basic Standards, stormwater conveyance structures will be designed, constructed, and stabilized using erosion and sedimentation (E&S) BMPs. The Erosion and Sediment Control narrative and plan sheets contains the details and specifications for general stabilization measures to be used during construction and stabilization of the Project. These measures will be used to protect exposed soils during the construction of the Project.

The stabilization measures for the site will include temporary and permanent E&S controls, appropriate design of swales, culverts, and erosion protection for earthen cut and fill slopes. Locations and details of the erosion and sediment control measures and the erosion and sediment control notes are shown on the site plans included in Section 14 of this application package.

12.C.2 Inspection and Maintenance Plan

An Inspection and Maintenance (I&M) Plan has been developed for inspection and corrective actions both during construction and post-construction. The I&M Plan provides the inspection frequency, minimum maintenance and inspection requirements and sample logs. The standalone Inspection and Maintenance Manual is included in Appendix 12-3.

12.C.3 Housekeeping

Housekeeping requirements such as spill prevention and reduction of pollution through groundwater protection, de-watering practices and regulating authorized and non-authorized non-stormwater discharges are addressed either through the Erosion & Sedimentation Control Plan or the Inspection and Maintenance Manual.

12.D General Standards Submissions

The General Standard is required when a project discharging to a non-lake or urban impaired stream, results in more than 1.0-acre of impervious area or 5-acres or more of developed area.

12.D.1 Narrative

A description of the Pre- and Post-development conditions, including alterations to the land cover has been provided in Section 12.A.5.

12.D.2 Drainage Plans

The Pre-Development Drainage Plan and the Post-Development Drainage Plan for the proposed Project are provided in Appendix 12-2.

12.D.3 Calculations

The stormwater best management practices were designed to treat the Water Quality Volume (WQV) based on the criteria outlined in Chapter 500 for pollutant removal and treatment. The requirement includes treating 95% of the impervious area and 80% of the developed area. Linear portions of projects that do not discharge to an urban impaired stream, are required to treat 75% of the impervious area and no less than 50% of the developed area.

Due to the challenging topography and slopes present at the Site and challenges associated with treating isolated linear impervious surfaces on steep terrain with HSG C and D series soils, the Project proposes to treat runoff from approximately 0.2 acres of existing West Mountain Road and 3.13 acres of existing impervious surface associated with an untreated gravel parking lot (Lot E) and to use this surface as an offset for proposed isolated roadway and ski terminal impervious surfaces for which treatment is infeasible. From a Water Quality and peak flow

mitigation standpoint this approach is favorable because it proposes to address more significant concentrated flows and pollutants from gravel parking lots in lieu of treating new paved roads and two townhome building rooftops which produce much less nutrient and sediment loading and predominantly sheet flow to adjacent vegetated terrain. Compliance with the WQ requirements is demonstrated in Table 12-1 below. Note that on a sitewide average basis the Project exceeds the required treatment for impervious surfaces and developed areas once the treatment of the existing untreated impervious surfaces is taken into account.

The 11 soil filters have been designed with a control orifice paced on the underdrain in order to detain the Water Quality volume over a period of no less than 24 hours and no greater than 48 hours, as required by Section 4a(ii) of Chapter 500.

In accordance with Section 4C(2) of Chapter 500, the 4 proposed wet ponds have been designed to provide 12-hour detention of the runoff volume from the 1-year, 24-hour storm event. This is demonstrated by noting the center of mass detention time exceeds 720 minutes (12 hours) in the accompanying modeling output (Ponds P1, P11, P13, P14). For the 11 soil filters, an orifice has been placed on the outlet of the underdrain pipe where it enters the control structure in order to provide the 720 minutes center of mass detention time, or 1" diameter circular orifice is used. It is VHB's experience that a 1" diameter orifice is the smallest practicable orifice that can be utilized in stormwater treatment applications.

Table 12-1. Project Treatment Summary

Water Quality Treatment Percentages								
Impervious Cl	assification	Total Area (Acres)	Area Treated (Acres)	Percent Treated	Percent Required			
Non Lincon Dontion	Impervious Area	10.83	9.66	89%	95%			
Non-Linear Portion	Developed Area	22.17	15.93	72%	80%			
Linear Portion	Impervious Area	7.09	4.47	63%	75%			
	Developed Area	13.13	6.55	50%	50%			
Single Family Lot	Impervious Area	16.00	15.20	95%	95%			
Development	Developed Area	24.42	19.54	80%	80%			
Offsite	Impervious Area	3.36	3.36	100%	0%			
Treatment/Mitigation	Developed Area	-	-	-	-			

Total New Impervious (AC)	33.92
Total Impervious Treated (AC)	32.69
Percent Impervious Treated	96.4%
Total Developed (AC)	59.72
Total Developed Treated (AC)	42.02
Percent Developed Treated	70.4%

Tables 12-2 and 12-3 below summarize the sizing criteria that is being used to size the structural stormwater treatment practices for the Project.

Table 12-2. Vegetated Underdrained Soil Filter Sizing Summary

	Treatment Areas (AC)			Sediment	Provided	Filter Surface Area (SF)					
Practice ID	Total	Impervious	Developed	Trap Volume (CF)	Sediment Trap Volume (CF)	Impervious (5%)	Landscaped (2%)	Minimum Surface Area	Surface Area to be Provided		
P2 -Townhomes 3-6	3.21	0.82	2.39	45.5	448.0	1784	2085	3869	3904		
P3-Townhomes 1-2	4.16	1.23	2.93	68.6	128.0	2688	2551	5239	5240		
P4-Bottom of Road A	0.68	0.16	0.52	8.8	120.0	346	456	802	802		
P5-Road A, Near Condos	2.35	0.90	1.45	49.9	82	1956	1261	3217	3217		
P6- Lots R43-R44	1.08	0.41	0.68	22.5	116.0	882	592	1474	2234		
P7-Lot R42, Road C	1.55	0.48	1.07	26.6	38.0	1041	930	1972	1972		
P8-Lot R40, Road C	1.82	0.49	1.34	27.0	93.0	1059	1165	2223	2235		
P9-Road D, Lot R51	1.25	0.27	0.98	15.0	69.0	588	852	1440	1440		
P10-Road A, Lot R31	3.46	1.26	2.20	69.8	90.0	2736	1916	4651	4651		
P12-Drop-off Parking Lot	2.08	0.92	1.16	51.1	167.0	2004	1014	3018	3179		
P16-Timbers 10	0.66	0.23	0.43	12.8	179.0	503	374	877	877		
P17 -Timbers 11-14	1.83	0.64	1.19	35.6	119.0	1394	1036	2430	2430		

Table 12-3. Wet Pond Sizing Summary

Properties ID	Treatment Areas (AC)		Sediment Trap Volume (CF)		Calculated Minimum Volumes (CF)		Proposed Volumes (CF)		Gravel Trench Length (FT)		
Practice ID	Total	Impervious	Developed	Minimum	Provided	Permanent Pool Volume	CP Volume	Permanent Pool Volume	CP Volume	Required	Provided
P1-Condo Complex	11.94	4.06	7.87	225.7	228.0	52,363	26,182	54,189	19,882	78.5	80
P11-Parking Lots E, F, G	8.30	3.90	4.40	216.7	733.0	41,108	20,554	49,963	23,481	61.7	70
P13-Parking Lot H	2.92	1.17	1.75	65.0	233.0	13,579	6,790	14,847	5,841	20.4	25
P14-Timber Duplexes 1-7	7.62	1.81	5.81	100.7	233.0	30,032	15,016	31,523	9,202	45.0	50

12.D.4 Soil Logs

A minimum of one excavation or boring has been performed in each of the locations proposed as stormwater treatment. Where a stormwater management measure is proposed a detailed log is provided which includes relevant soil characteristics, elevation of seasonal high groundwater and bedrock to a depth at least three feet below the lowest component of the stormwater measure. The logs are included as part of the Stormwater Calculation Package located in Appendix 12-2.

12.D.5 Details, Designs and Specifications

The Project proposes to use eleven vegetated soil filters and four wet ponds for stormwater management. Infiltrative practices, while generally desired for runoff reduction purposes, is not feasible at this site due to the heavier underlying Peru and Colonel series soils. Plans depicting the details of the stormwater management measures are provided in Appendix 12-1. Impermeable liners are not anticipated to be required due to the low permeability of the native soils.

Single-family homes will be required to provide treatment via individual standalone practices designed to meet the Basic and General Standards. The Flooding Standard is intended to be achieved in the structural treatment practices listed in Table 12-2. Based upon Site conditions it is expected that these practices will consist of a combination of raingardens, vegetated underdrained soil filter, or use of treatment buffers (as feasible).

12.D.6 Phosphorus Export Calculations

The Project is not located within a lake watershed, and therefore the Phosphorus Standards do not apply.

12.D.7 Maintenance Contract

The responsible party in charge of the inspection and maintenance is documented in the Inspection and Maintenance Manual, included in Appendix 12-3.

12.E Flooding Standards Submissions

The Flooding Standard is required for this Project because it results in 3-acres or more of impervious area or 20-acres or more of developed area and a Site Law permit or modification is required.

12.E.1 Control of Peak Flows

A HydroCAD model using TR-20 methodology was developed to evaluate the existing and proposed drainage conditions on the Site. The pre- and post-development peak discharge values are presented in Table 12-5 below. The Project's approach to conformance with the Flooding Standard utilizes a combination of peak flow mitigation and culvert analysis.

Significant effort has been made to minimize rerouting of runoff within the Project area while still providing protection of proposed ski facilities and roadway infrastructure. The 15 structural stormwater practices have all been designed to significantly detain runoff for storm events up to and including the 25-year, 24-hour event. Peak flow is maintained below pre-development levels at 15 of the 24 study points. The remaining 9 of the 24 study points (1, 4, 6, 11, 12, 15, 16, 20, 24) experience higher peak flows than under existing conditions. Due to existing slopes, streams, and channel locations, additional centrally located stormwater detention practices are challenging to implement without undue environmental impacts or creation of in-stream ponds. These are discussed in further detail below.

The existing culverts at Study Points 4, 11, 16 should have adequate capacity to convey these flows. At the existing bridge crossing associated with SP1, the modeling suggests a 2% increase in 25-year storm peak flow rate which is not expected to result in any significant change at SP-1, given the nature of the existing crossing.

The provisions of Chapter 500 Section 4F(2)(d) state that the primary access road to the Project shall not be flooded during the 25-year, 24-hour storm event. Upon review of the post development modeling results from this event, VHB recommends replacing 5 existing culverts along West Mountain Road with new enlarged culverts to pass this storm event. These culverts correspond to study points 4, 6, 11, 12, 15, and 24 and are depicted on the Project plans.

Receiving channels associated with the Project converge at several locations just downstream of West Mountain Road within lands owned by the Applicant. Peak flow rates at these confluence points are not expected to increase significantly due to balancing of peak flows from reductions achieved at the other contributing discharge points. Treatment practices associated with the single-family home lots are not represented in the modeling at this time. Implementation of those practices will further mitigate peak flows at the discharge points. The applicant will consult with the DEP to determine what modeling, if any, is necessary to demonstrate compliance with the Flooding Standard for areas downstream of these culverts.

Table 12-4. Peak flow summary for 24-hour Type II storms of 2-, 10-, and 25-year return frequency

G. I. D.:	2-1	YR	10-	YR	25-YR		
Study Point	Pre-dev.	Post-dev.	Pre-dev.	Post-dev.	Pre-dev.	Post-dev.	
SP1	85.81	86.53	203.85	204.79	313.66	320.25	
SP2	1.93	0.89	4.20	1.84	6.24	2.69	
SP3	1.20	0.31	3.48	0.51	3.60	1.63	
SP4	13.77	20.35	30.76	48.22	47.39	75.21	
SP5	1.48	1.34	3.20	2.89	4.74	4.27	
SP6	11.72	30.78	26.28	70.14	39.48	106.30	
SP7	8.91	0.83	19.98	1.69	30.05	2.45	
SP8	0.58	0.43	1.09	0.81	1.52	1.13	
SP9	2.45	0.20	5.70	0.37	8.69	0.51	
SP10	0.67	0.00	1.38	0.00	2.89	0.00	
SP11	3.60	6.60	8.37	13.41	12.76	19.42	
SP12	3.87	11.40	8.97	25.13	13.63	37.51	
SP13	3.35	0.73	8.27	2.92	12.94	12.09	
SP14	1.49	1.06	3.45	2.17	5.24	3.15	
SP15	5.99	9.18	14.75	19.76	23.10	29.86	
SP16	0.51	0.77	0.96	1.73	1.36	2.60	
SP17	2.29	1.78	5.72	3.61	8.94	5.20	
SP18	0.57	0.27	1.48	0.52	2.34	0.74	
SP19	1.86	0.56	4.87	1.20	7.75	1.77	
SP20	10.25	13.64	24.64	31.43	38.07	47.79	
SP21	1.83	0.61	4.58	1.10	7.16	1.77	
SP22	2.86	0.35	6.22	0.70	9.25	1.00	
SP23	1.33	0.58	2.95	1.07	4.42	1.65	
SP24	3.98	10.49	8.39	21.69	12.32	31.67	

12.E.2 Details, Designs and Specifications

Plans depicting the details of the stormwater management measures are provided in Appendix 12-1 as previously noted in Section 12.D.5.

12.F Deed Covenants, Restrictions, or Easements

No deed restriction or covenants are proposed at this time. The Applicant will retain ownership of the land upon which the stormwater treatment practices are to be located.

	APPE	ENDIX 12-1		
PRE- AND	POST-DEVEL	OPMENT DR	RAINAGE PLAN	NS
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APPENDIX 12-2 STORMWATER CALCULATION PACKAGE
STORWWATER CALCULATION FACKAGE

Sugarloaf West Mountain Project Stormwater Management Calculations

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Post-Development Model (HydroCAD Routings)

Sugarloaf Resort - West Mountain Expansion - Maine DEP Site Location of Development Permit Application
APPENDIX 12-3
INSPECTION AND MAINTENANCE MANUAL

Inspection & Maintenance Plan (Stormwater Management System)

Sugarloaf West Mountain Project

Carrabassett Valley, ME

PREPARED FOR

Boyne Resorts 15 South Ridge Road PO Box 4500 Newry, Maine, 04261

PREPARED BY



500 Southborough Drive Suite 105B South Portland, ME 04106 207.889.3150

September, 2021



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Stormwater RMD Location Plan	12



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Introduction

VHB has prepared the following Stormwater Management System Inspection & Maintenance Manual and Spill Response Procedures for the Sugarloaf West Mountain Project, located in Carrabassett Valley, Maine. The Site lies within the surface watershed of the South Branch of the Carrabassett River, which is not classified as an Urban Impaired Stream, that ultimately discharges to the Kennebec River. The intent of this plan is to provide the applicant/owner with a list of procedures that document the inspection and maintenance requirements and spill procedures for this development.

Inspection & Maintenance

The following inspection and maintenance program is necessary to keep the Stormwater Management System functioning properly. By following the enclosed procedures, the applicant will be able to maintain the functional design of the Stormwater Management System and maximize its ability to remove sediment and other contaminants from site generated stormwater runoff.

Responsible Party

The oversight of the inspection and maintenance program will be provided by:

Boyne Resorts 15 South Ridge Road PO Box 4500 Newry, Maine, 04261

During Construction

The following procedures shall be implemented during construction. The Contractor shall adhere to the Erosion and Sediment Control (ESC) Plan associated with the Maine Construction General Permit (MCGP).

Erosion and Sediment Control Plan

- Impervious area, erosion control measures, materials storage areas exposed to precipitation and construction exits shall be inspected, at a minimum, once a week. Additional inspections shall be performed before and within 24 hours after a rainfall event and prior to permanent stabilization.
- BMPs shall be repaired upon discovery of problem and no later than the end of the next working day.
- Significant repairs to BMPs shall be completed within 7 calendar days and prior to a rainfall event.
- A Construction Inspection & Maintenance Log shall be completed for each inspection and maintenance activity.
- Inspection shall be performed by a person with knowledge of erosion and stormwater control which include the standards and conditions in the permit.
- The Inspection & Maintenance Logs shall be accessible to the Maine Department of Environmental Protection staff and a copy shall be provided upon request.
- The permittee shall retain copies of the logs for a period of at least three years from the completion of permanent stabilization.



Post-Construction

The following procedures shall be implemented after construction. The Inspection & Maintenance Plan does not include items and requirements specifically associated with lift related equipment.

Inspection & Maintenance Plan

By implementing the following procedures and following the Post Construction checklist included, the applicant will be able to maintain the functional design of the Stormwater Management System and maximize the system's ability to remove sediment and other contaminants from site generated stormwater runoff.

Regular Maintenance

- Routinely pick up and remove litter from the access roads and parking lots.
- Remove all trash litter from the access roads and parking lots and dispose of properly.

Record Keeping

- Inspections of the stormwater management system shall be conducted in accordance with the Inspection & Maintenance Checklist provided in this Manual.
- A Post-Construction Inspection & Maintenance Log shall be completed for each inspection and maintenance activity.
- Inspection shall be performed by a person with knowledge of erosion and stormwater control which include the standards and conditions in the permit.
- The Inspection & Maintenance Logs shall be accessible to the Maine Department of Environmental Protection staff and a copy shall be provided upon request.
- The permittee shall retain copies of the logs for a period of at least three years from the completion of permanent stabilization.

Re-Certification

- Re-certification shall be submitted within three months of the expiration of each five-year interval from the date of issuance of the permit.
- Submission of re-certification shall include: Identification of repair and erosion problems, Inspection and repair of stormwater system, and evidence that the maintenance plan has been implemented.

Duration of Maintenance

Maintenance as described in the Inspection & Maintenance Plan shall be performed by the Responsible Party unless and until the system is formally accepted by its successor, heirs and assigns, or other entity.

Inspection & Maintenance Checklist

The following pages contain an Inspection & Maintenance Checklists for Construction and Post-Construction requirements and a reduced copy of the Erosion and Sediment Control Plan and Detail Sheets. These forms/plans are provided to assist the applicant with the inspection and maintenance of the Stormwater Management System.

Stormwater Management System Inspection & Maintenance Checklist - Construction

Best Management Practice	Inspection Frequency	Date Inspected	Inspector Initials	Minimum Maintenance and Key Items to Check	Cleaning or Repair Needed Yes/No (List Items)	Date of Cleaning or Repair	Performed by:
Gravel Access Road	Weekly and after any rainfall	/ /		Filled voids, erosion, breakout			
Silt Sock or Silt Fence Erosion Control Barriers	Weekly and after rainfall ≥0.5"	/ /		Flow around or under barrier, Sediment build up > half barrier height, excessive sag, erosion			
Stone Checkdam	Weekly and after any rainfall	/ /		Sediment build up, broken barrier or stakes			
Stabilized Construction Exit	Weekly and after any rainfall	/ /		Filled voids, runoff/sediments into street			
Erosion Control Blanket	Weekly and after any rainfall	/ /		Cracking, erosion, breakout, sediment buildup			
Diversion Channels	Weekly and after any rainfall	/ /		Maintained, moved as necessary to correct locations, Check for erosion or breakout			
Temporary Sedimentation Traps	Weekly and after any rainfall	/ /		Cracking, erosion, breakout, sediment buildup, contaminants			
Materials Storage Areas	Weekly and after any rainfall	/ /		Maintained, spills, breakout			

Inspector Name and Qualifications _____

	9	Sugarloaf We	est Mountain P	roject	
Stormv	vater Inspec	tion & Main	tenance Check	list – Post Construct	ion
Best Management Practice and Maintenance	agement Practice and Inspection and Maintenance			Inspector Initials and Date	Inspector Comments and Repairs
	Monthly	Quarterly	As Needed		
Roads and Parking Lots					
Check for erosion and washout of soils onto gravel areas.	Х				
Grade as needed.			Х		
Drainage Structures and Pipes / Stormwate	er Outfalls				
Check for sediments, erosion and washout.		Х			
Clean and dispose vegetation and sediments legally.			Х		
Remove floatable solids and oils.			Х		
Replace rip rap at outfalls.			Х		
Vegetated Underdrained Soil Filters					
Check for establishment of vegetation, erosion, and clogging		Х			
Replace dead vegetation and remove weeds and leaf litter.			Х		
Clean and dispose sediments in bottom of basin legally.			Х		
Renew media if basin drains in >72 hours after 1-in. rainfall.			Х		
Inspect overflow structure.		Х			
Replace rip rap.			Х		

		Sugarloaf	West Mounta	in	
Stormv	vater Inspec	ction & Main	tenance Check	dist – Post Construc	tion
Best Management Practice and Maintenance	Inspection and Maintenance Frequency		Inspector Initials and Date	Inspector Comments and Repairs	
	Monthly	Quarterly	As Needed		
Forest Buffer					
Check for erosion and sediments		Х			
Inspect and repair stone berms that flow is distributed.		Х			
No trees cut except for the normal maintenance of dead, windblown or damaged trees and for pruning of tree branches below a height of 12 feet					
Clean and dispose sediments legally.			Х		
Inspect if vehicles have entered the buffer.		Х			
Wet Ponds					
Check for erosion, establishment of vegetation and sediments		Х			
Mow banks twice max during the growing season. No woody vegetation allowed on banks or near outlet structure			Twice Annually		
Inspect embankments for signs of seeps or settlement.			Twice Annually		
Inspect forebay and main cell of pond for sediment accumulations. Clean and dispose sediments in bottom of basin legally once sediment reaches 50% of forebay wet volume			X		
Replace rip rap.			Х		
Inspect outlet control structure, gravel drain and low-flow orifices for signs of clogging or leakage. Remove debris and accumulated sediment			Twice Annually		



Spill Response Procedure

Spill response procedure is limited to during the construction of the facility. Spill prevention equipment and training for post-construction operations will be provided by Boyne Resorts.

A. Initial Notification

In the event of a spill the facility and/or construction manager or supervisor will be notified immediately.

acility Manager (name):
acility Manager (phone):
Construction Manager (name):
Construction Manager (phone):

The supervisor or manager will assess the incident and initiate containment control measures with the appropriate spill containment equipment included in the spill kit kept on-site. The supervisor will first contact the Fire Department and then notify the Police Department. The fire department is ultimately responsible for matters of public health and safety and should be notified immediately.

B. Further Notification

Based on the assessment from the Fire Chief, additional notification to a cleanup contractor may be made. The Maine Department of Environmental Protection (DEP) and the EPA may be notified depending upon the nature and severity of the spill. The Fire Chief will be responsible for determining the level of cleanup and notification required. The attached list of emergency phone numbers shall be posted in the main construction/facility office and readily accessible to all employees. A hazardous waste spill report shall be completed as necessary using the attached form.



Emergency Notification Phone Numbers

1.	FACILITY MANAGER	PHONE:
	NAME:	CELL:,
		HOME PHONE:
	ALTERNATE CONTACT:	
	NAME:	PHONE:
		BEEPER/CELL:,,
		HOME PHONE:
2.	FIRE & POLICE DEPARTMENT	EMERGENCY: 911
3.	CLEANUP CONTRACTOR:	PHONE:
	ADDRESS:	
		
		
4.	MAINE DEPARTMENT OF ENVIRONMENTAL	Oil Spills: (800) 482-0777
	PROTECTION (DEP)	Hazardous Materials: (800) 452-4664
		Central Maine Regional Office: (800) 452-1942
5.	NATIONAL RESPONSE CENTER	PHONE: (800) 424-8802
	ALTERNATE: U.S. ENVIRONMENTAL	EMERGENCY: (800) 424-8802
	PROTECTION AGENCY	BUSINESS (Region 1): (888) 372-7341
6.	MAINE EMERGENCY MANAGEMENT	PHONE: (800) 452-8735
	AGENCY	



Hazardo	us Wa	aste / 0	Oil Spill Repo	rt				
Date:	/	/		Гіте:	AM /	' PM		
Exact loc	cation							
Type of	equip	ment:_				Make:	Size:	
License	or S/1	V:				Weather Cond	itions:	
On or ne	ear wa	ter	Yes I	f yes, name of	body of v	water:		
			No					
Type of	chemi	cal / c	oil spilled:					
Amount	of ch	emical	/ oil spilled:					
Cause of	f spill:	-						
Measure	es take	n to co	ontain or clea	n up spill:				
Amount	of ch	emical	/ oil recover	ed:		Method:		
Material	collec	cted as	a result of cl	ean up				
		drui	ms containin _{	g:				
		drui	ms containin	z:				
_		drui	ms containing	j:				
Location	and 1	method	d of debris di	sposal:				
Procedu	res, m	ethod,	, and precaut	ions institute	d to prev	ent a similar occ	urrence from r	ecurring: :
Spill rep	orted	to Ger	neral Office b	y <u>:</u>			Time:	AM / PM
Spill rep	orted	to DEI	P / National	Response Cei	nter by <u>:</u>			
DEP Dat	te:	/	/	Time:		AM / PM	Inspector:	
			/	Time:		AM / PM	Inspector:	
							_	



C. Assessment - Initial Containment

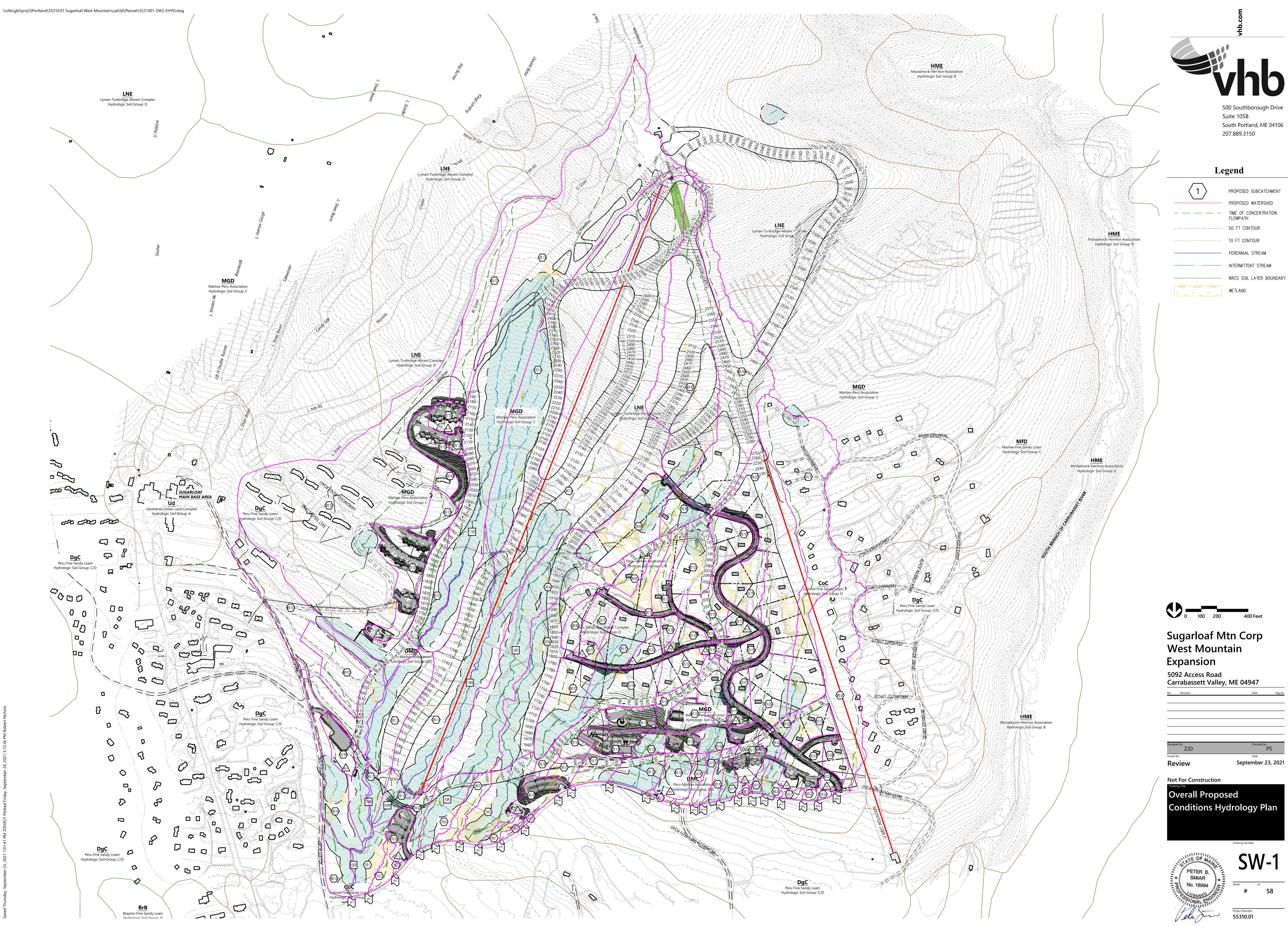
The supervisor or manager will assess the incident and initiate containment control measures with the appropriate spill containment equipment included in the spill kit kept on-site. A list of recommended spill equipment to be kept on site is included on the following page.



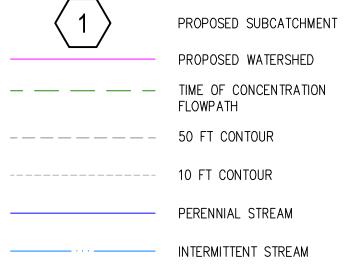
Emergency Response Equipment

The following equipment and materials shall be maintained at all times and stored in a secure area.

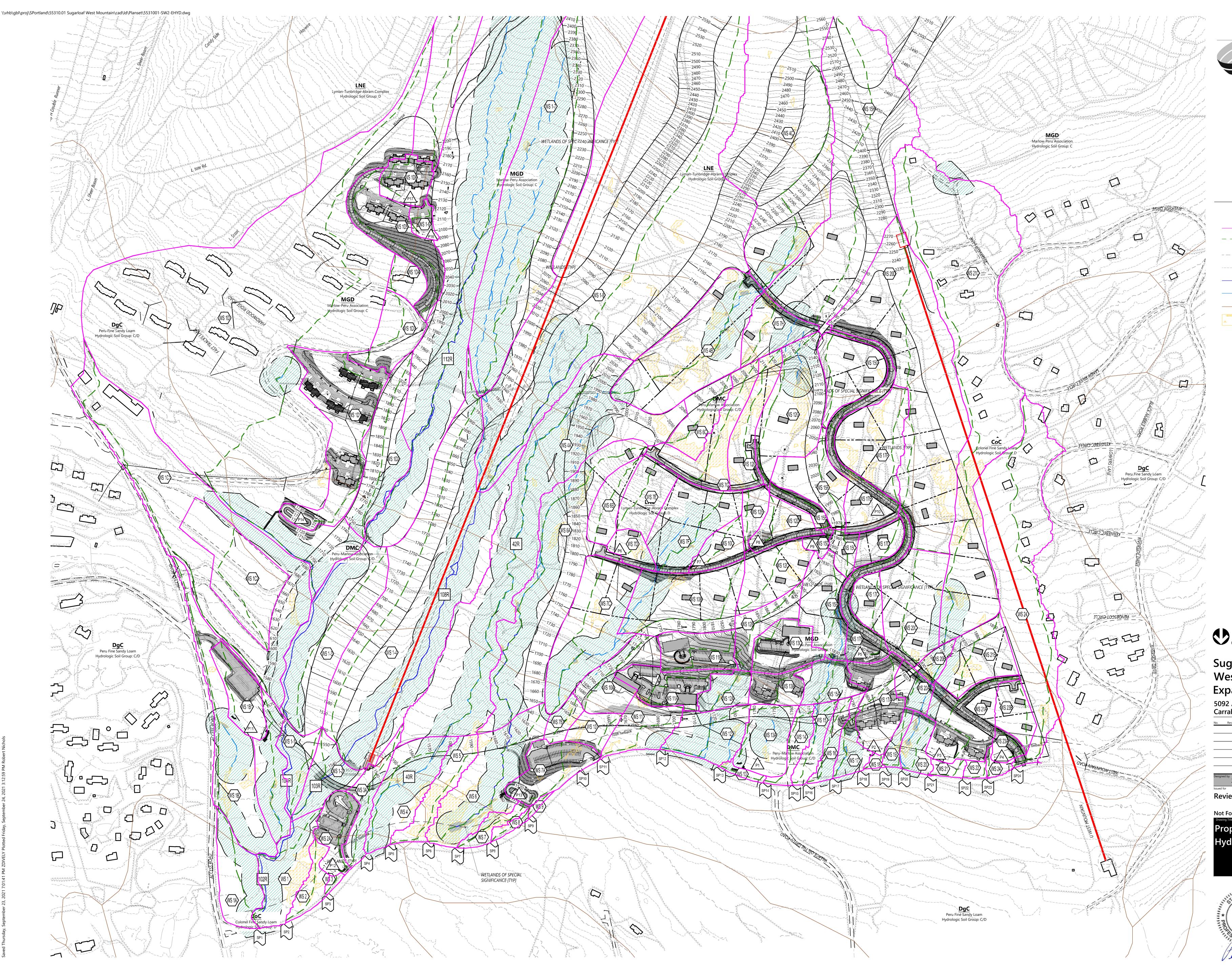
SORBENT BOOM 100 FEET SAND BAGS (empty) 50 SPEEDI-DRI ABSORBENT 5 40# BAGS	 SORBENT PADS	2 BALES
SPEEDI-DRI ABSORBENT 5 40# BAGS	 SORBENT BOOM	100 FEET
0. 222 1 2 1 1 1 1 2 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 2 1	 SAND BAGS (empty)	50
	 SPEEDI-DRI ABSORBENT	5 40# BAGS
SQUARE END SHOVELS 1	 SQUARE END SHOVELS	1
PICK 1	 PICK	1
PRY BAR 1	 PRY BAR	1



500 Southborough Drive

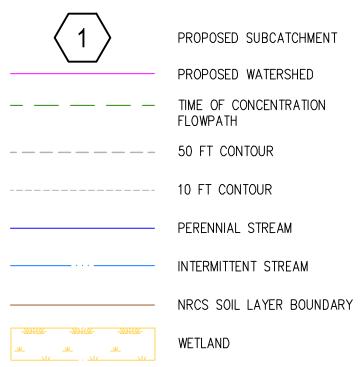


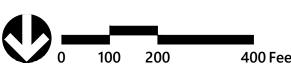
Conditions Hydrology Plan





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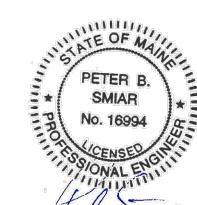
Sugarloaf Mtn Corp **West Mountain Expansion**

5092 Access Road Carrabassett Valley, ME 04947

Designed by ZJD	Checked by PS
Issued for	Date
Review	September 23, 20

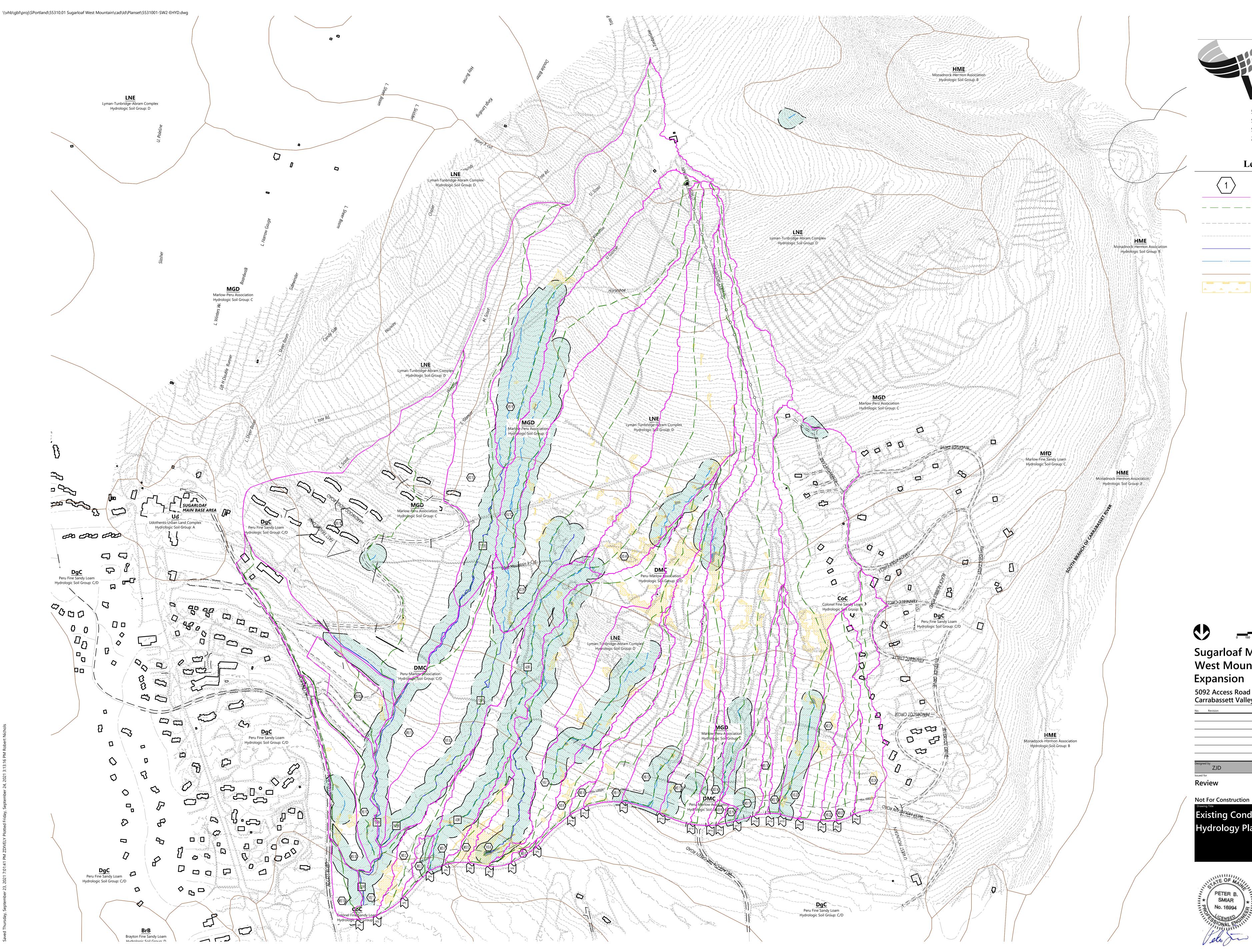
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Proposed Conditions Hydrology Plan



SW-1.1

Project Number 55310.01





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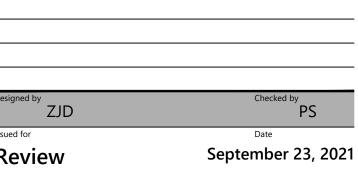
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South Portland, ME 04106

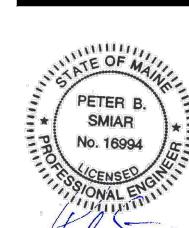
EXISTING SUBCATCHMENT EXISTING WATERSHED — — — TIME OF CONCENTRATION FLOWPATH ---- 50 FT CONTOUR 10 FT CONTOUR PERENNIAL STREAM INTERMITTENT STREAM NRCS SOIL LAYER BOUNDARY

Sugarloaf Mtn Corp **West Mountain**

5092 Access Road Carrabassett Valley, ME 04947



Existing Conditions Hydrology Plan



Project Number 55310.01





Sugarloaf Mtn Corp **West Mountain**

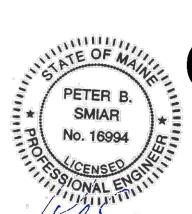
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September 23, 2021

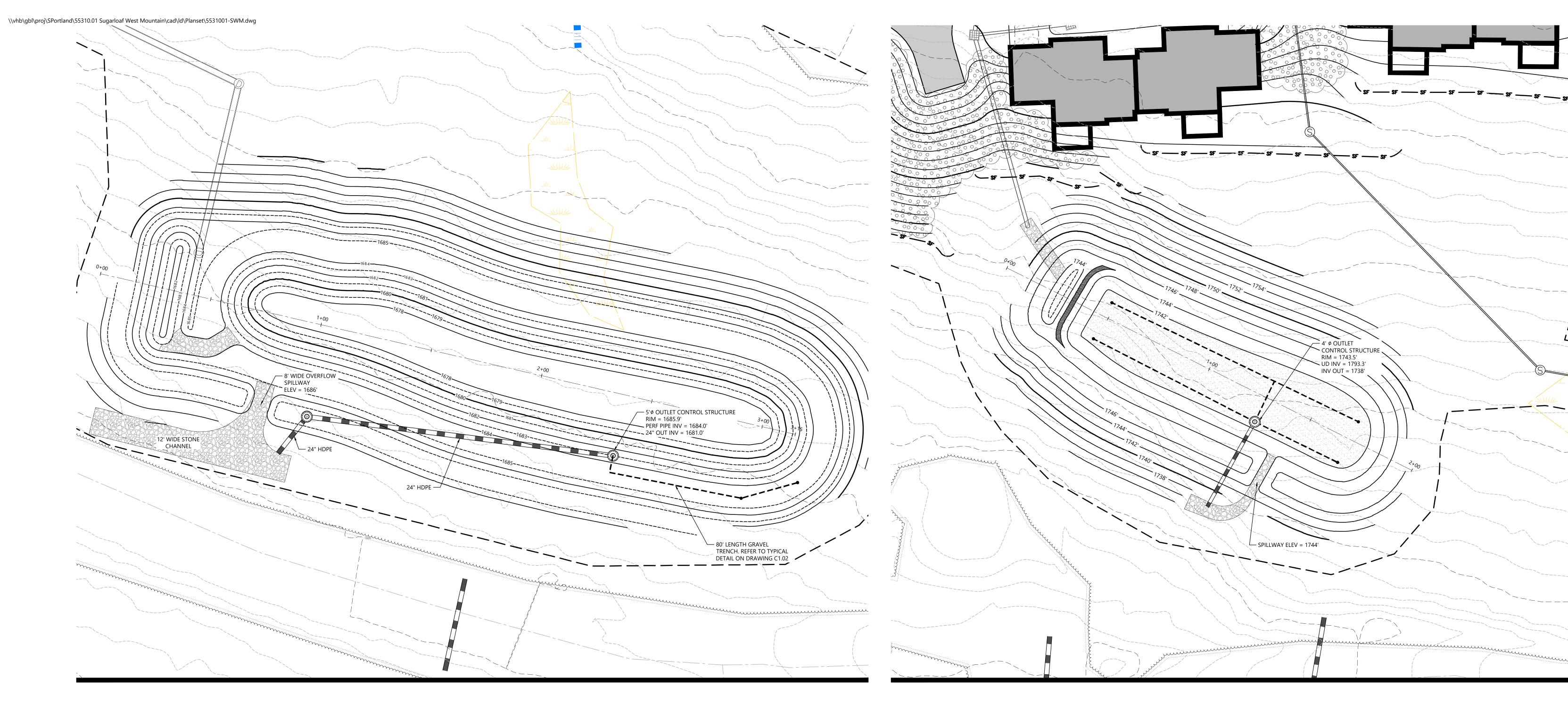
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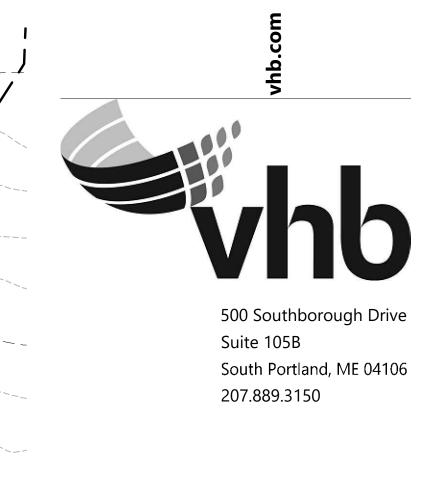
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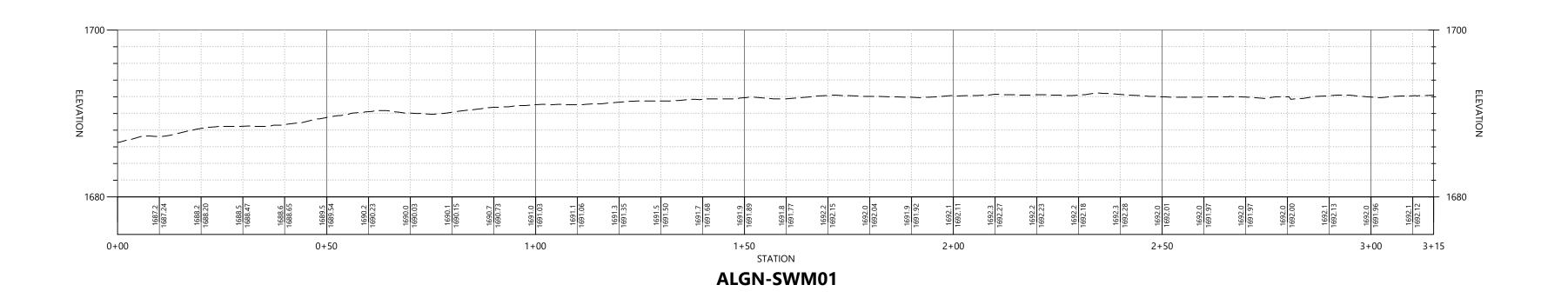
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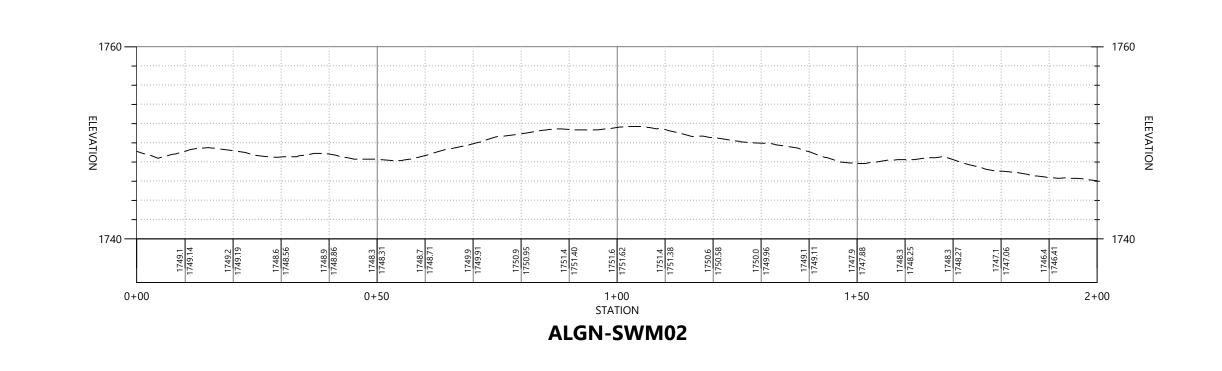


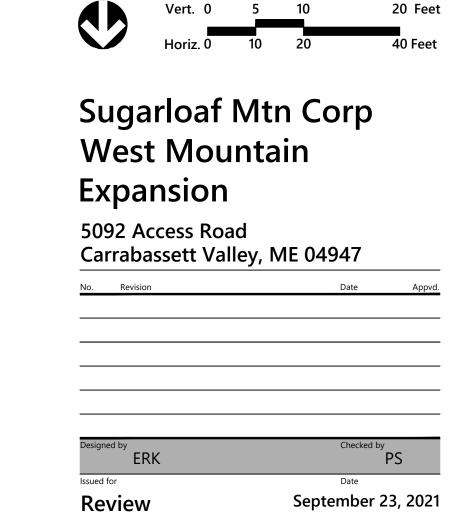
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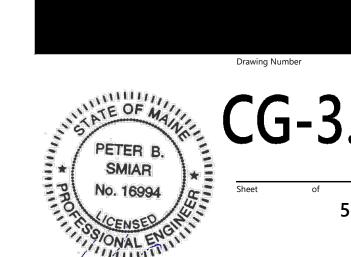










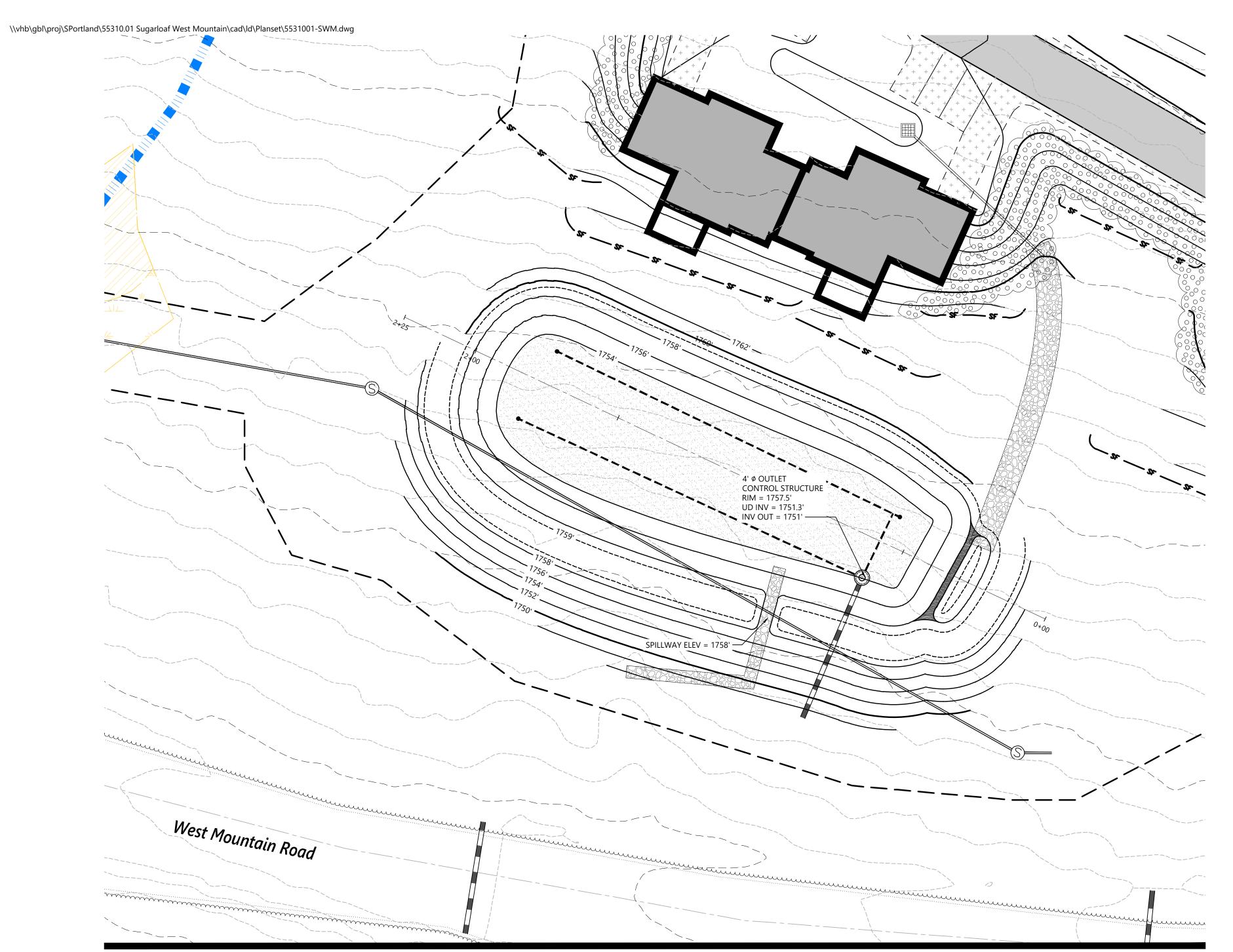


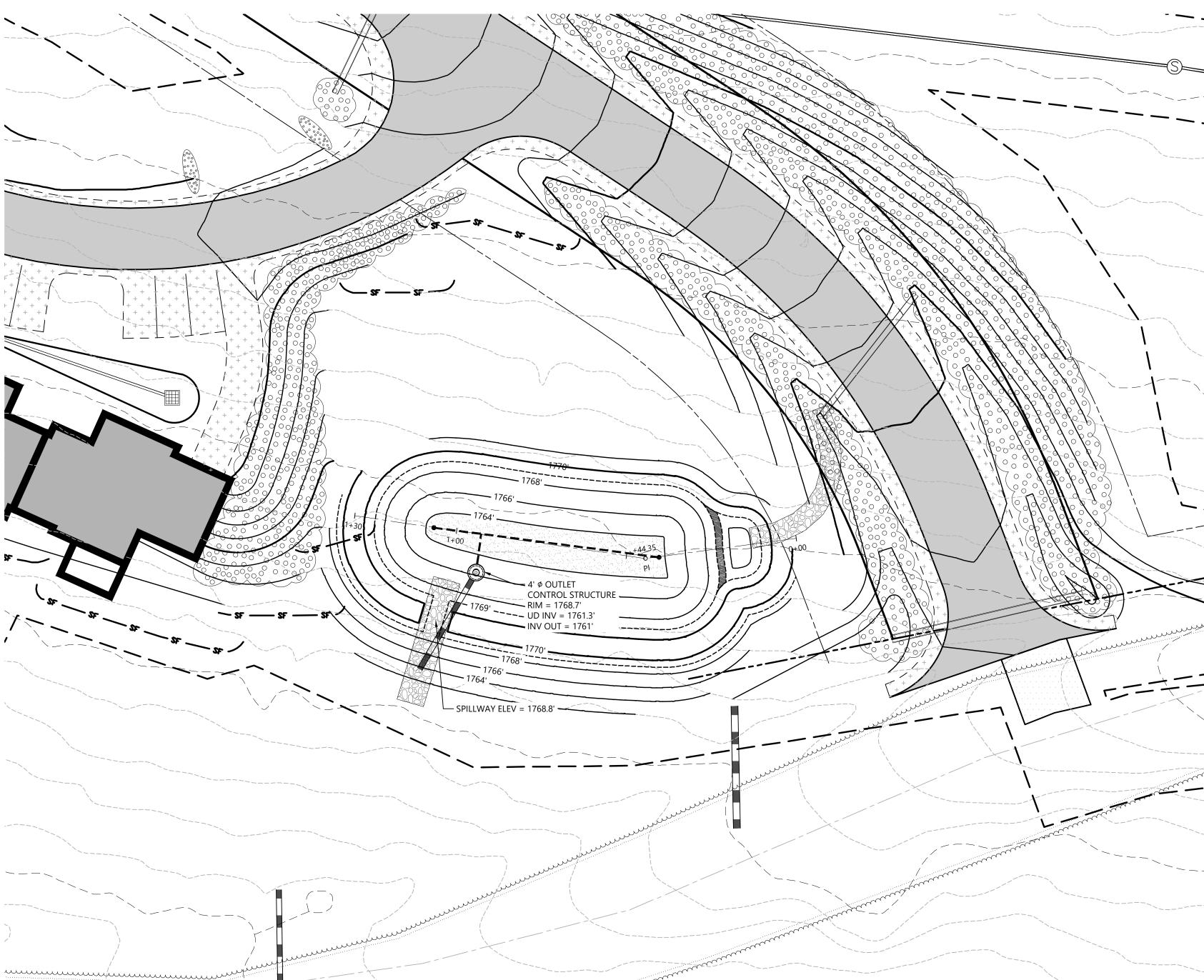
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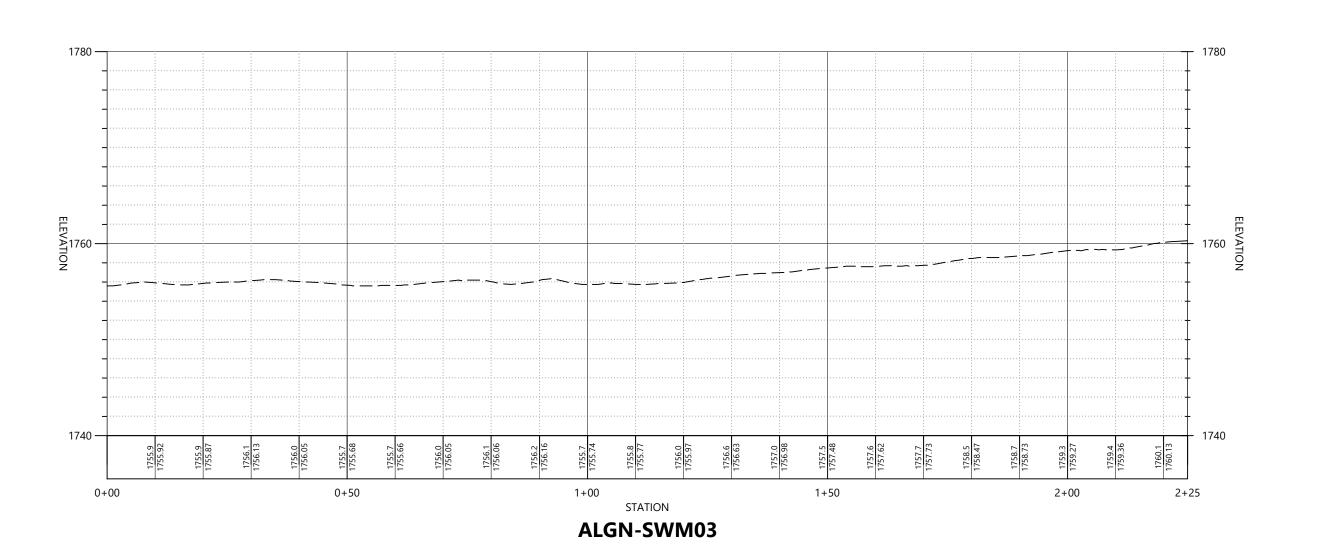
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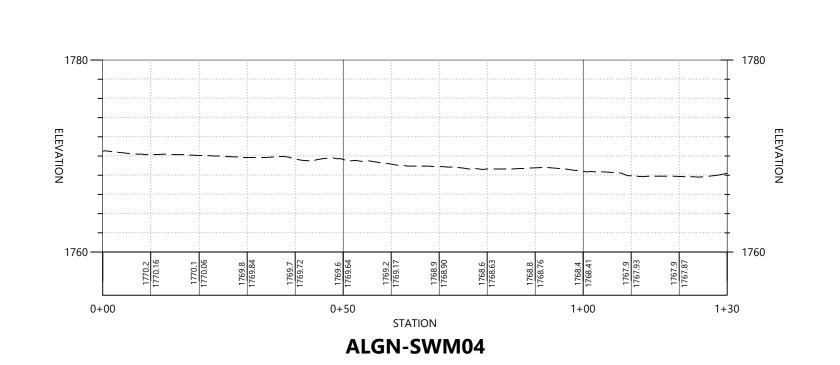
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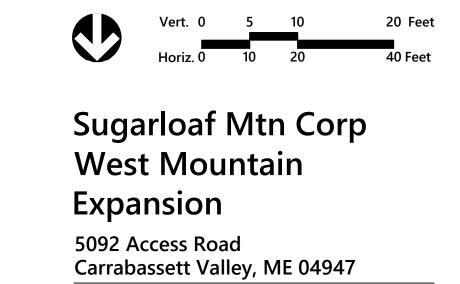
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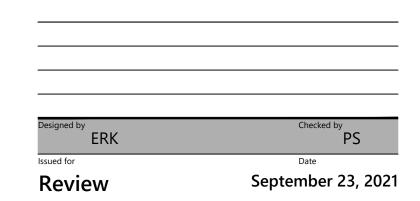


500 Southborough Drive

South Portland, ME 04106

Suite 105B

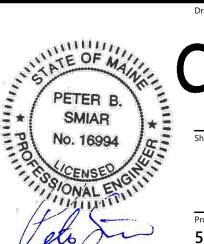
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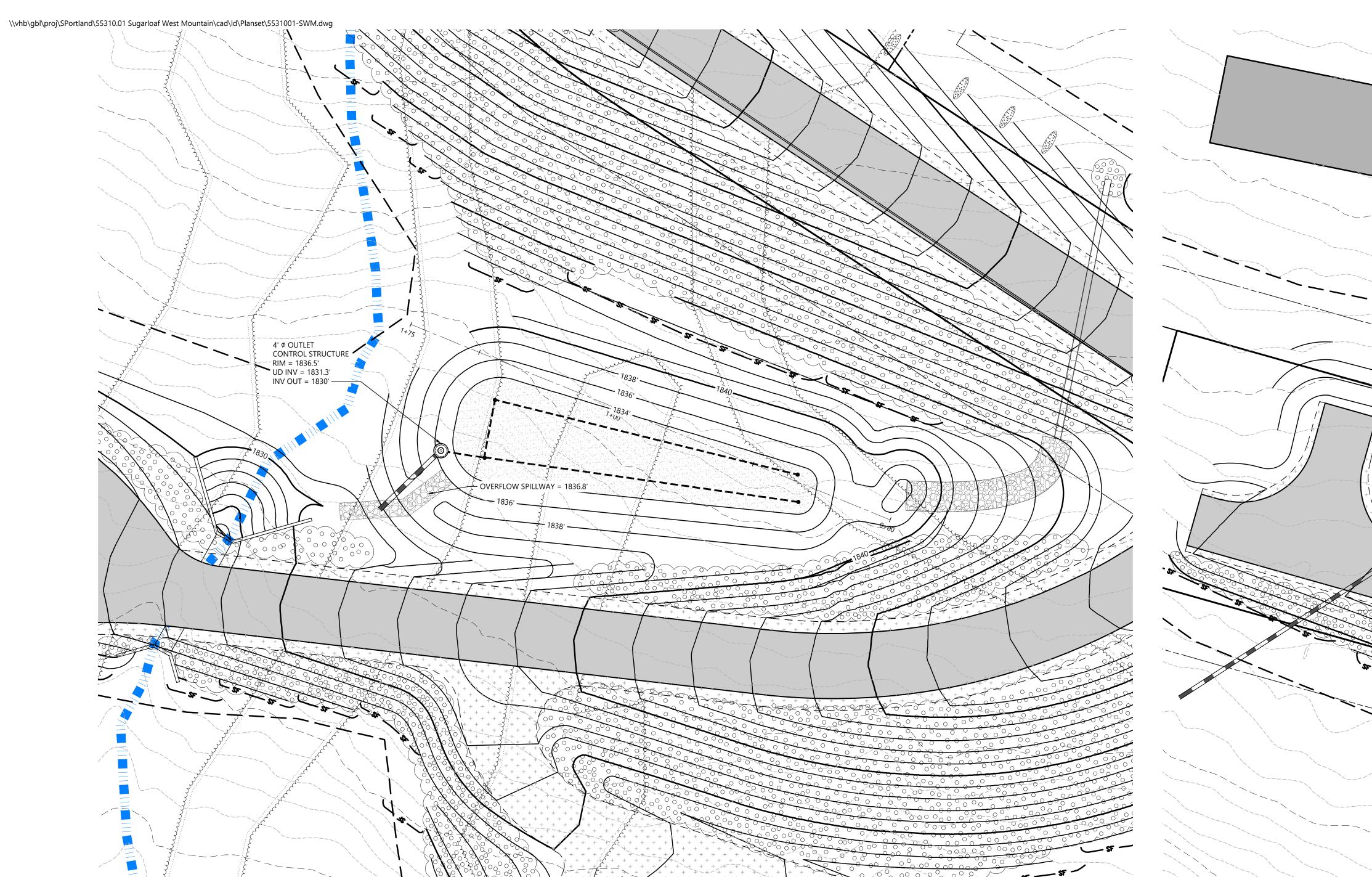
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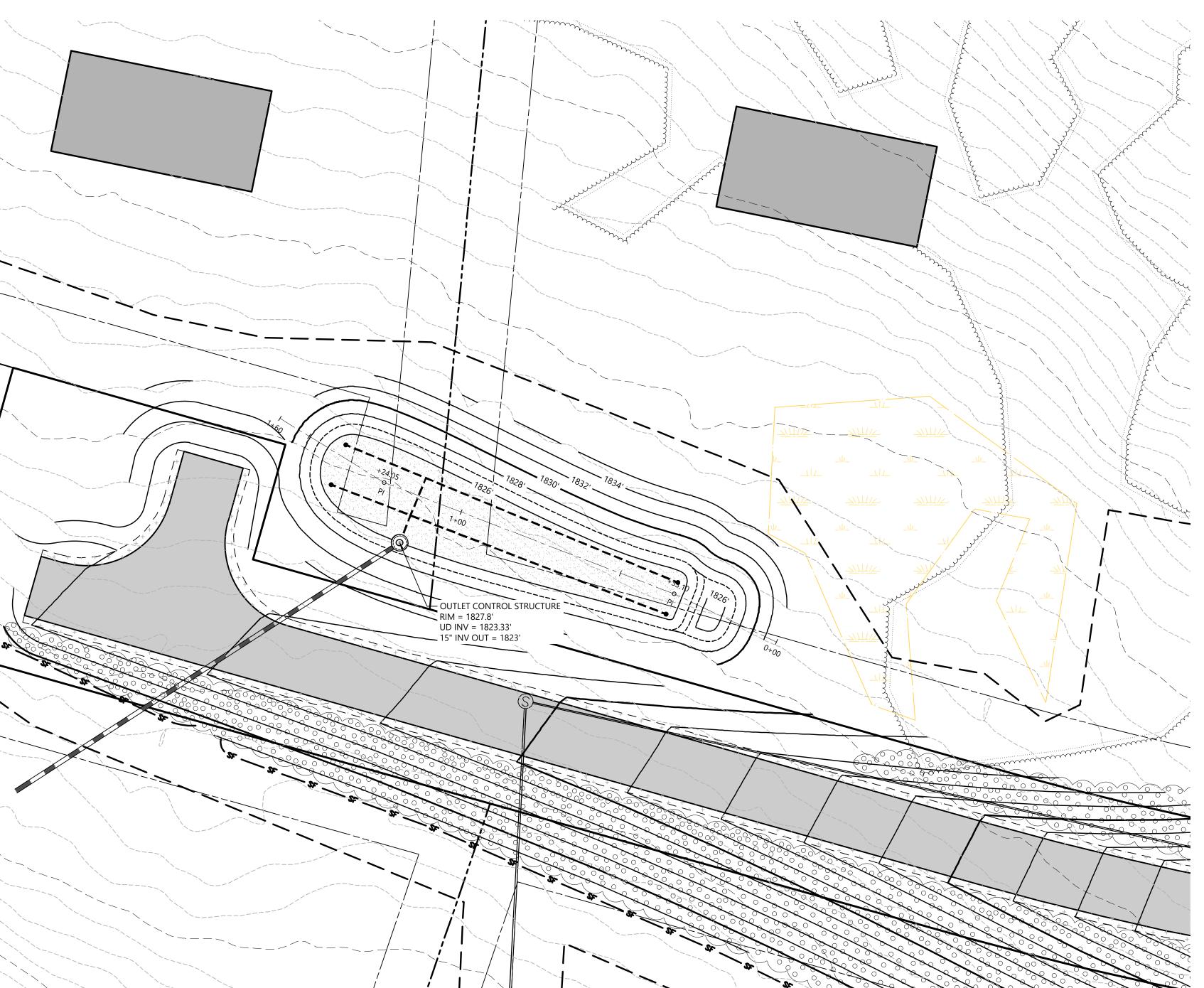
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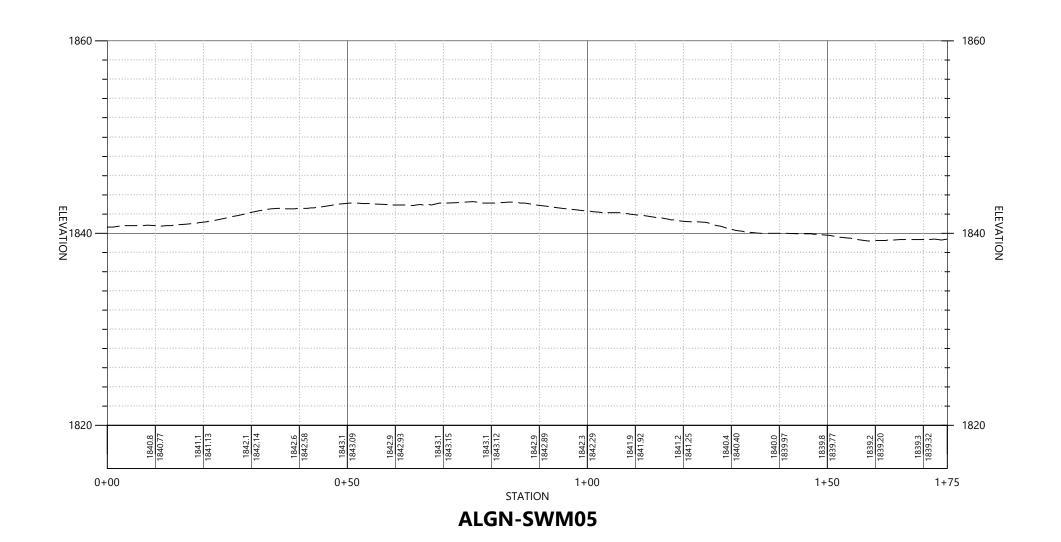
Stormwater Facility Plan and Profile

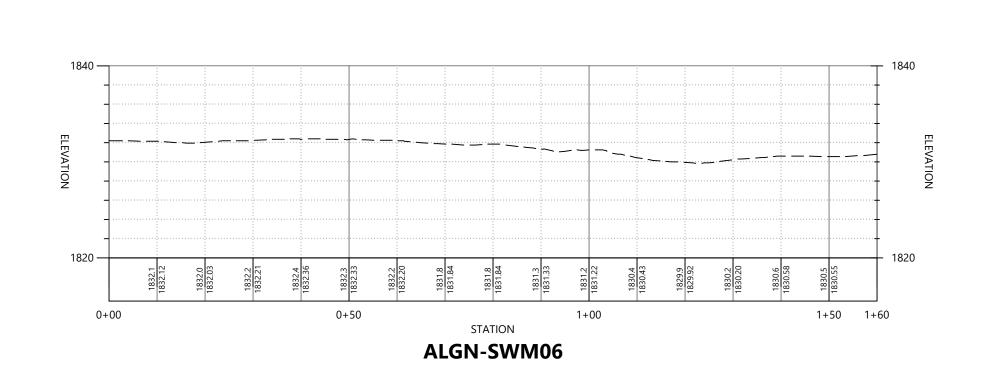


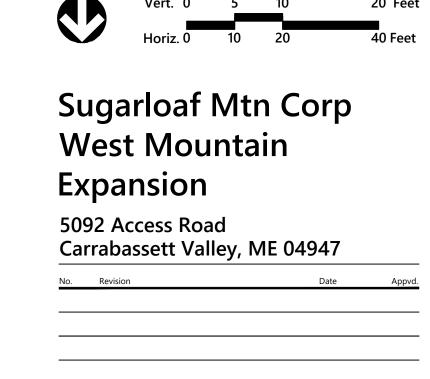
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Suite 105B

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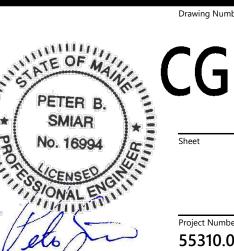
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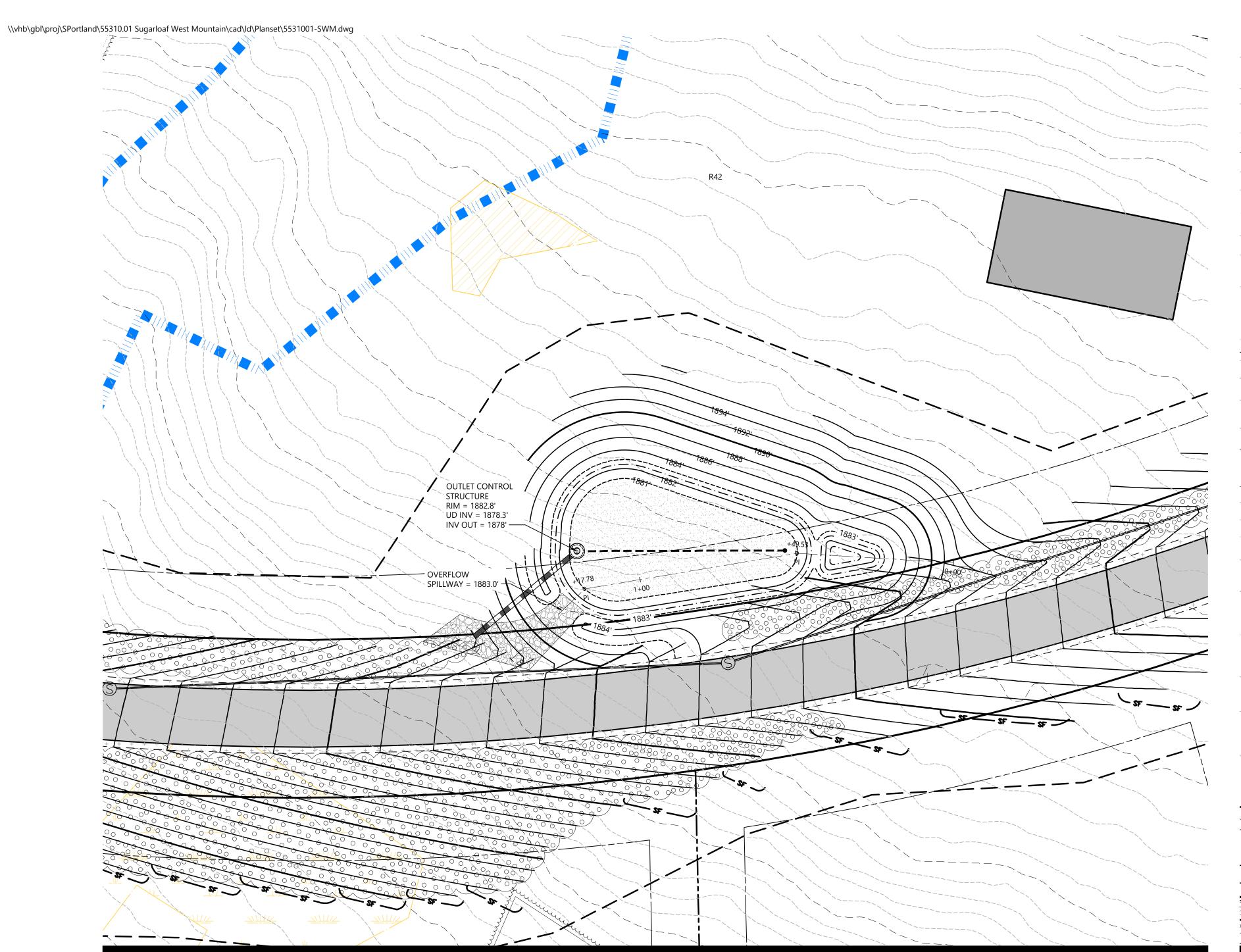
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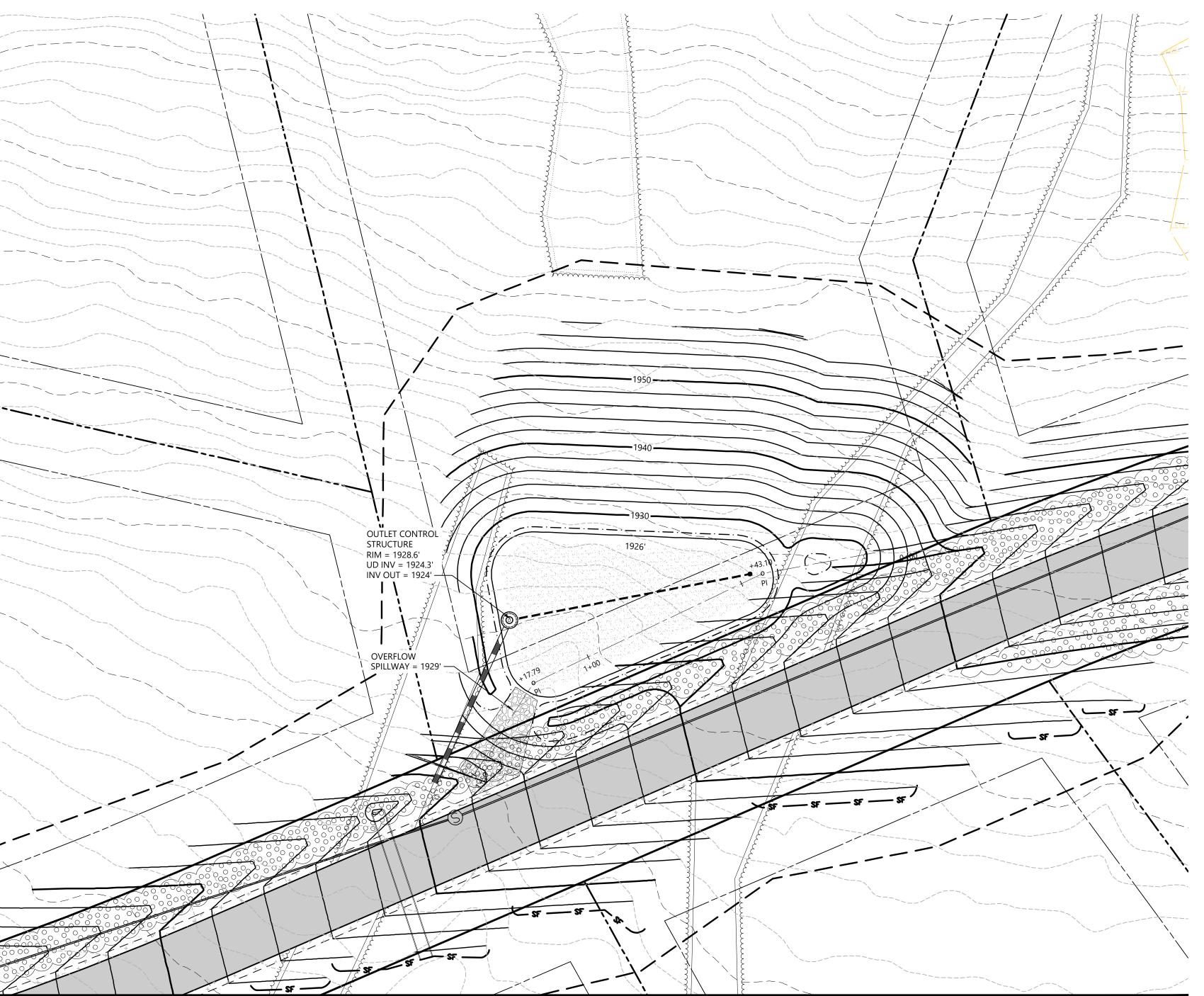
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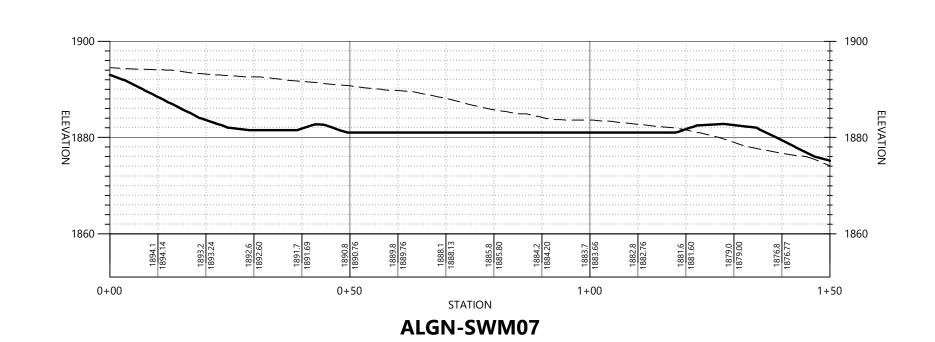
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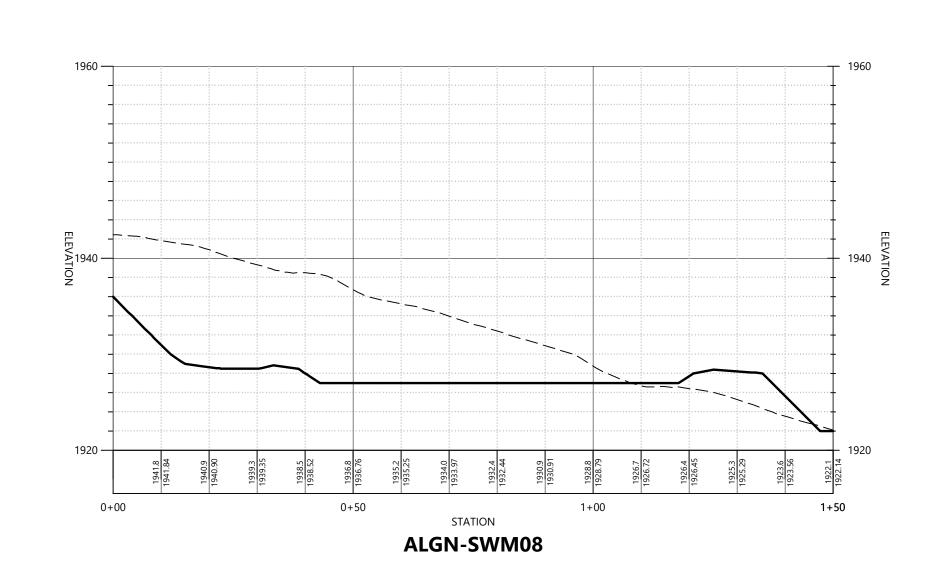


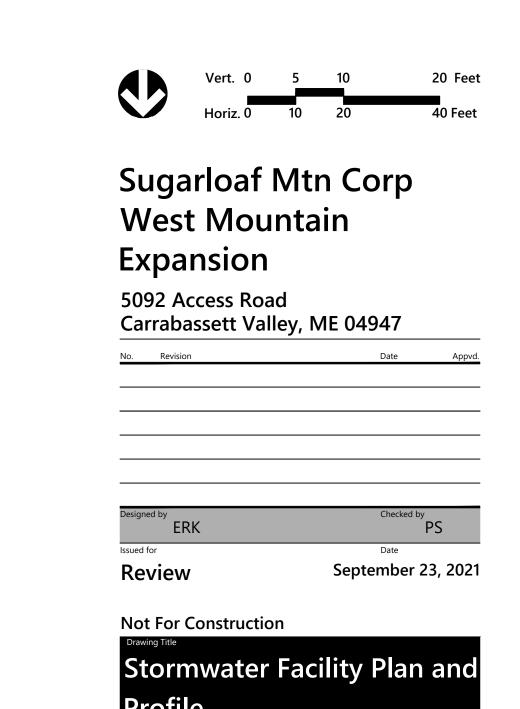
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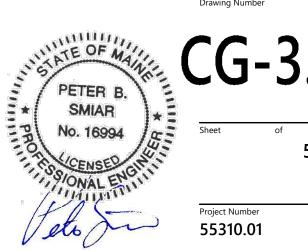


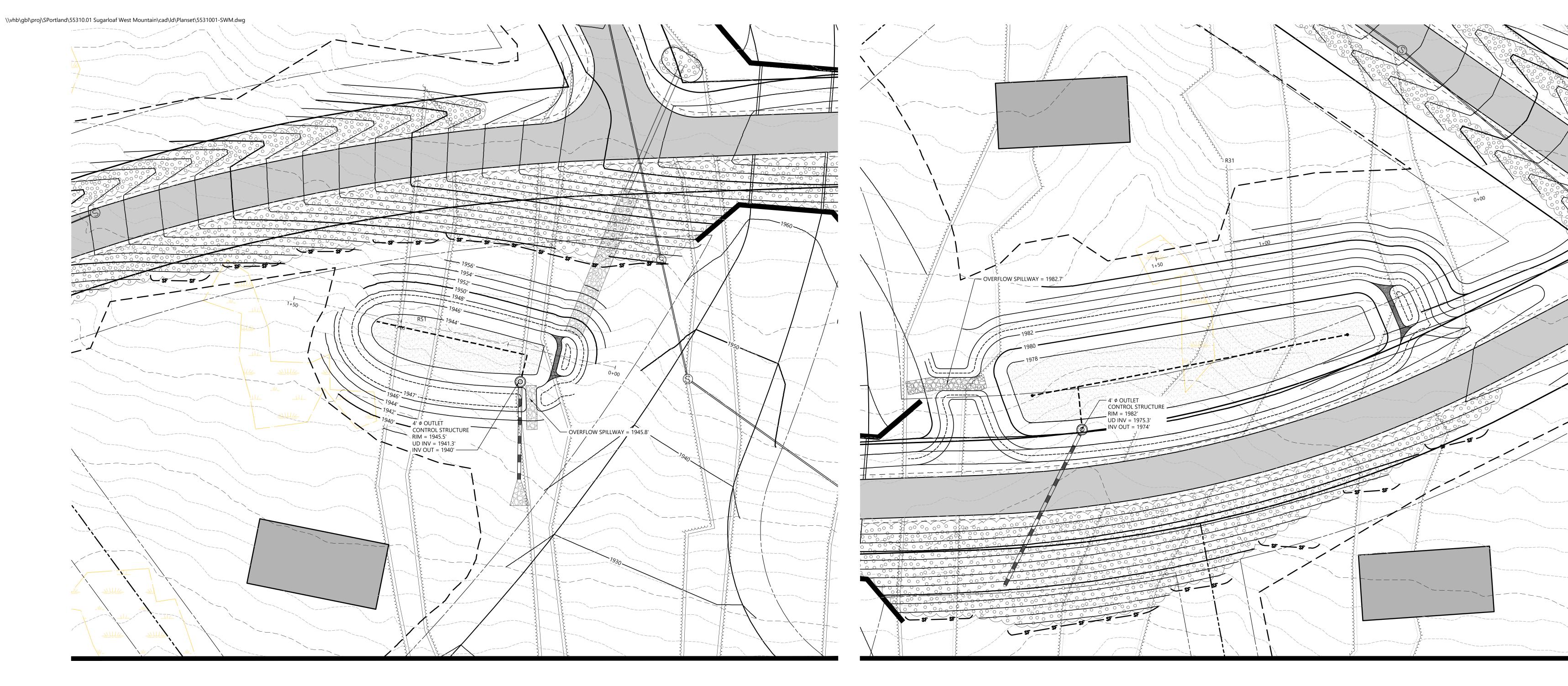
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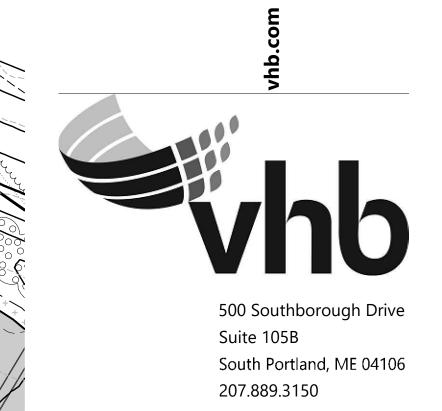
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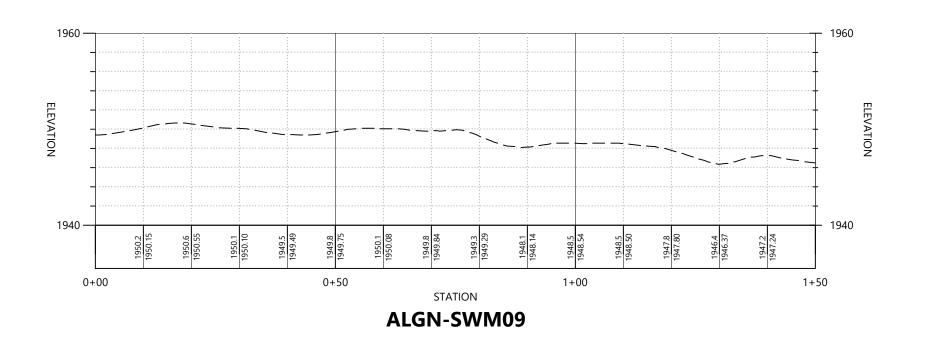
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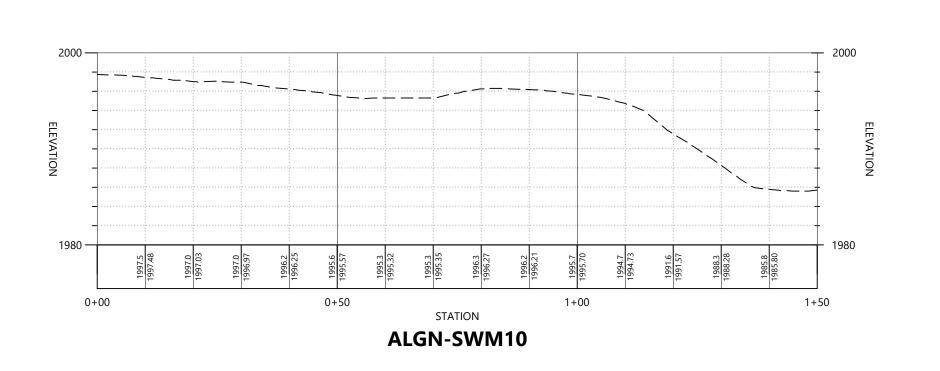
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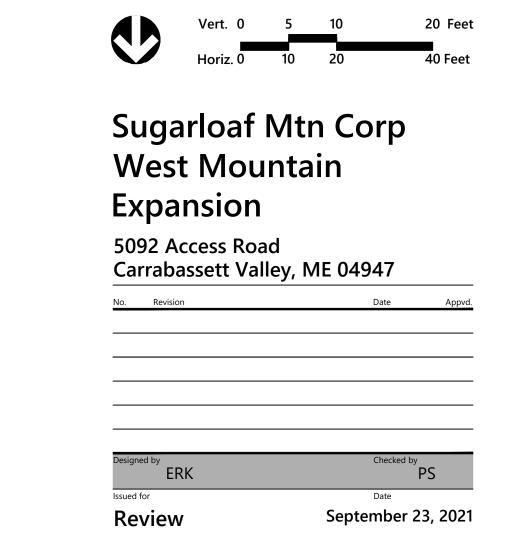




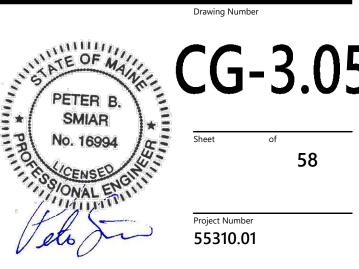




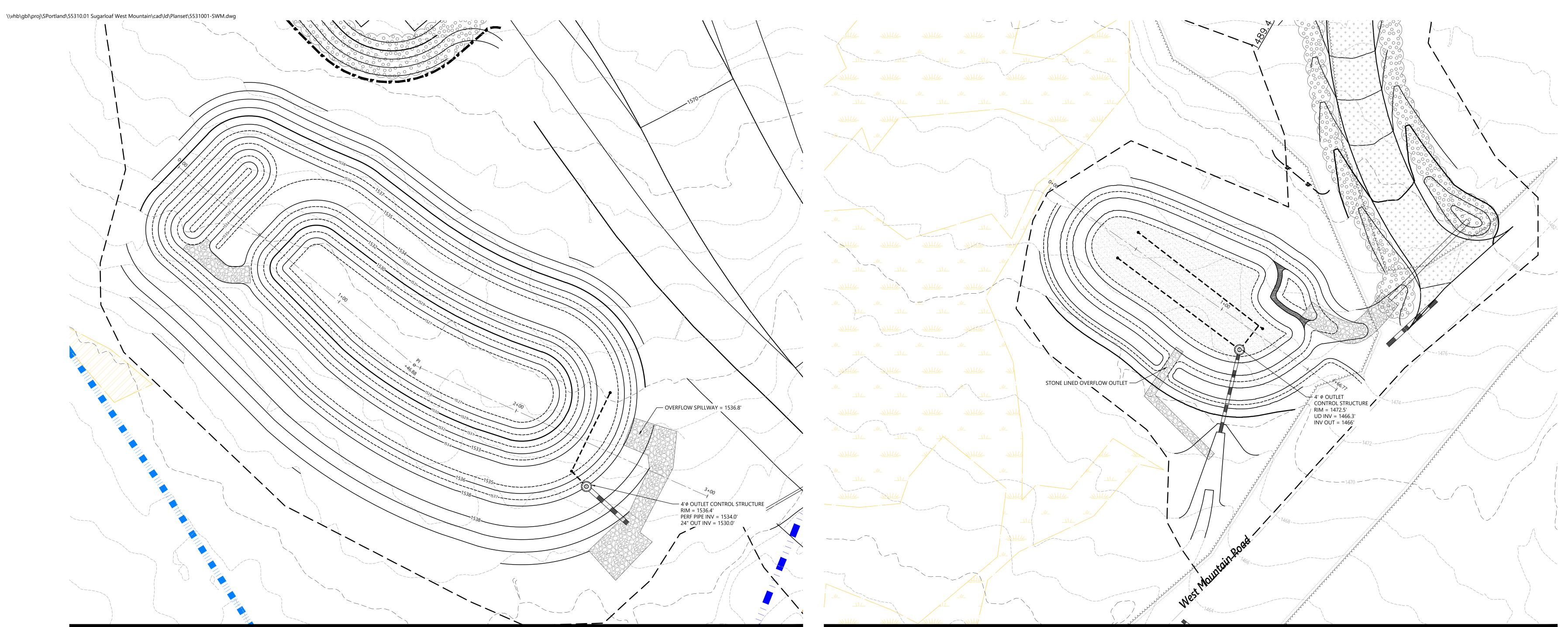




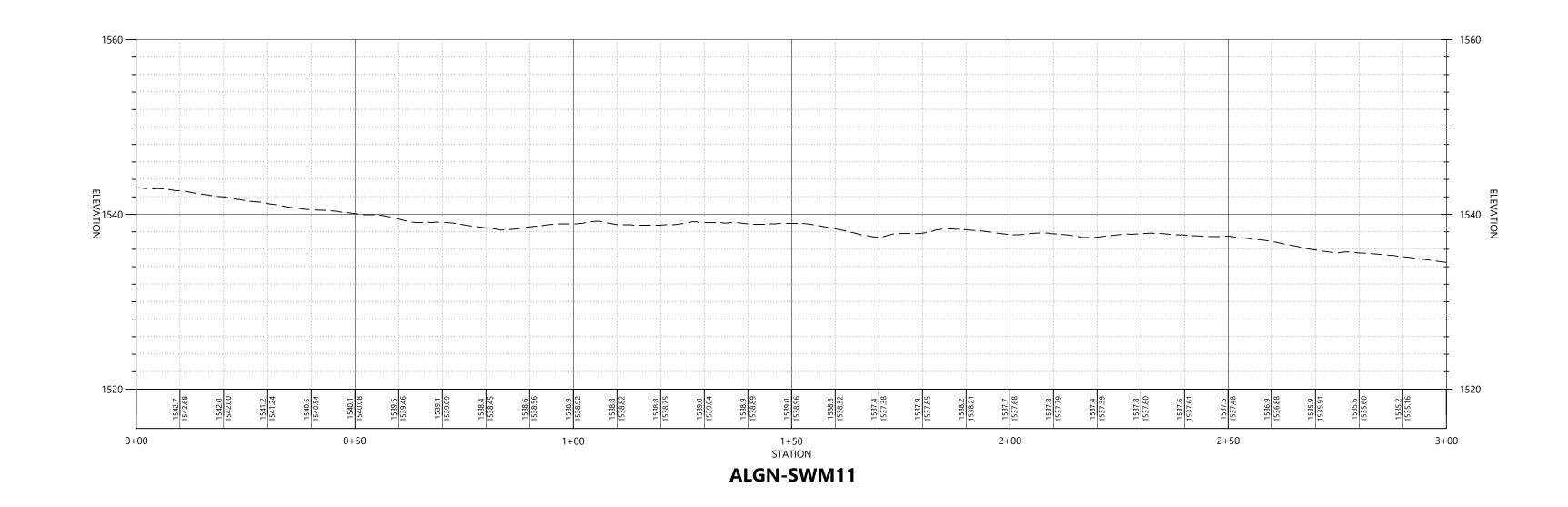
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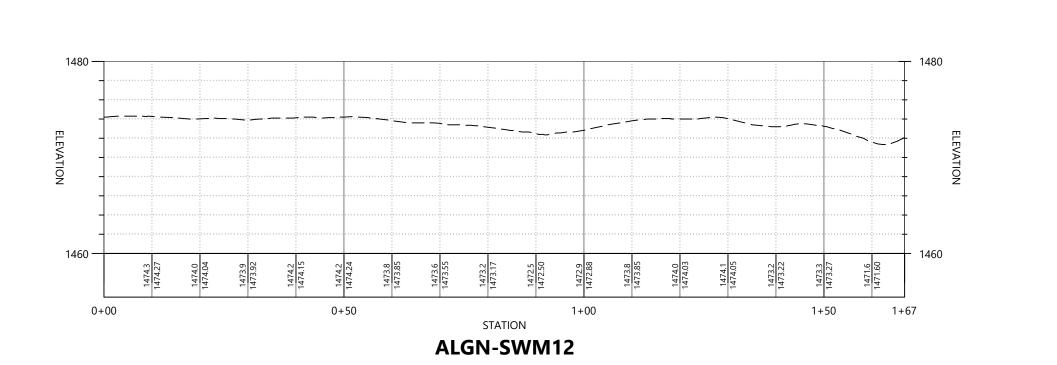


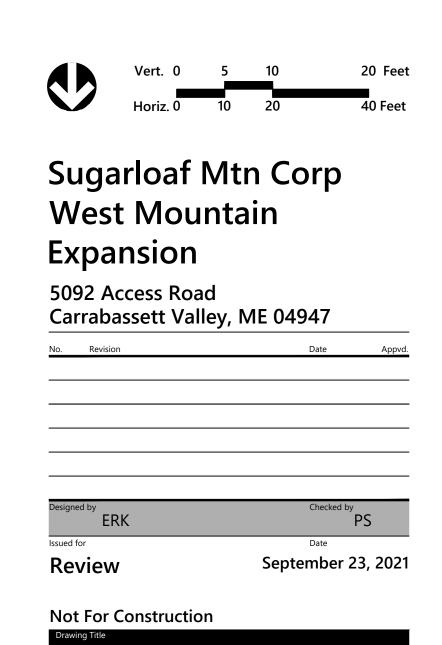
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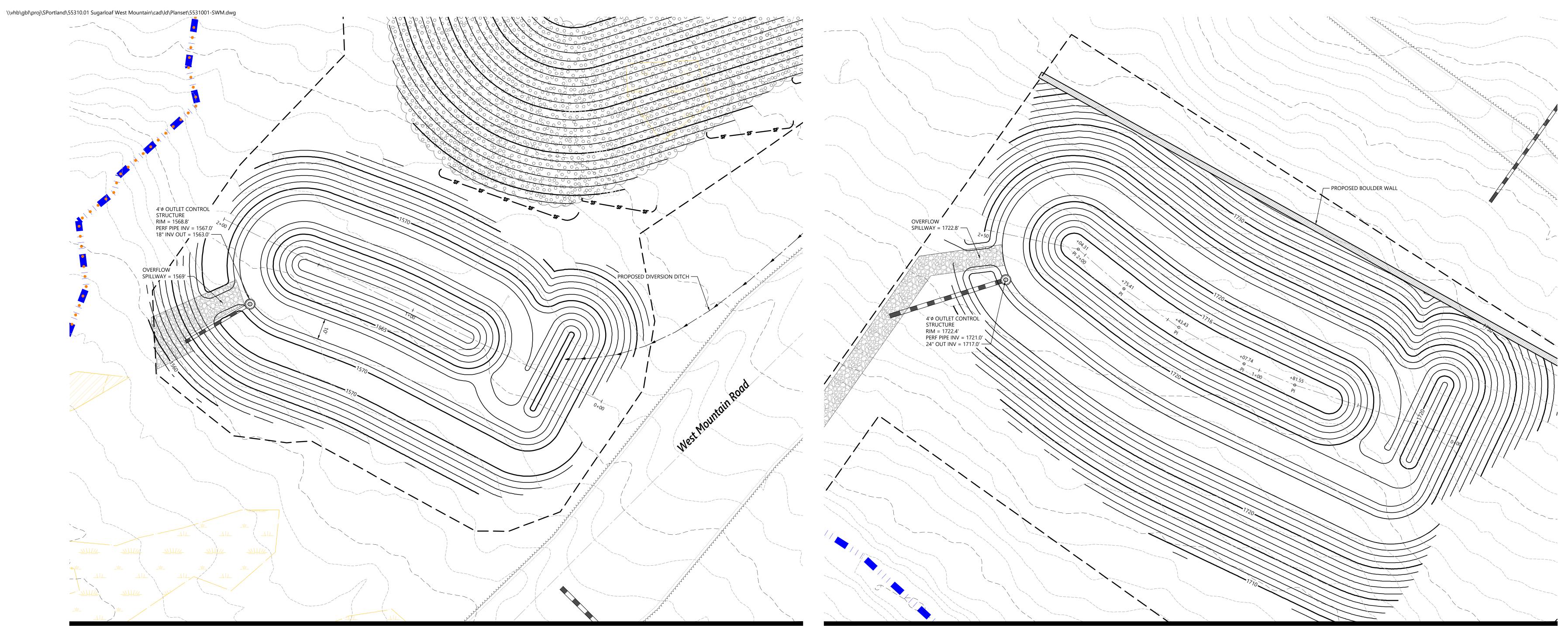


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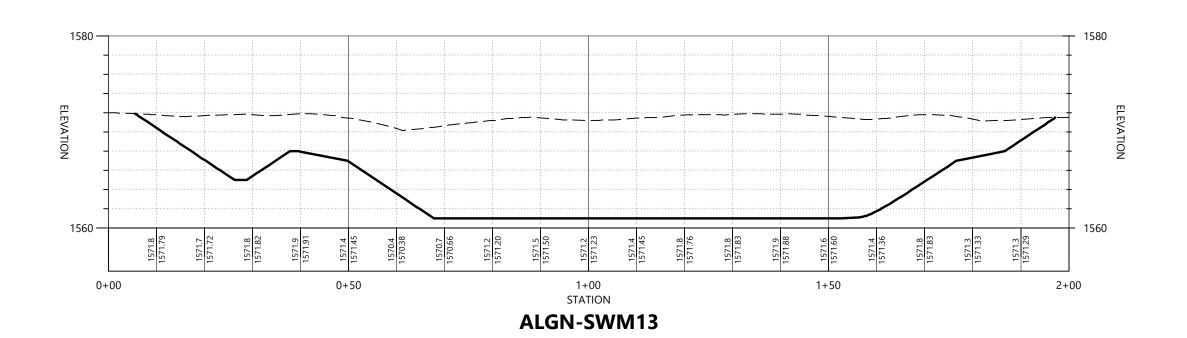
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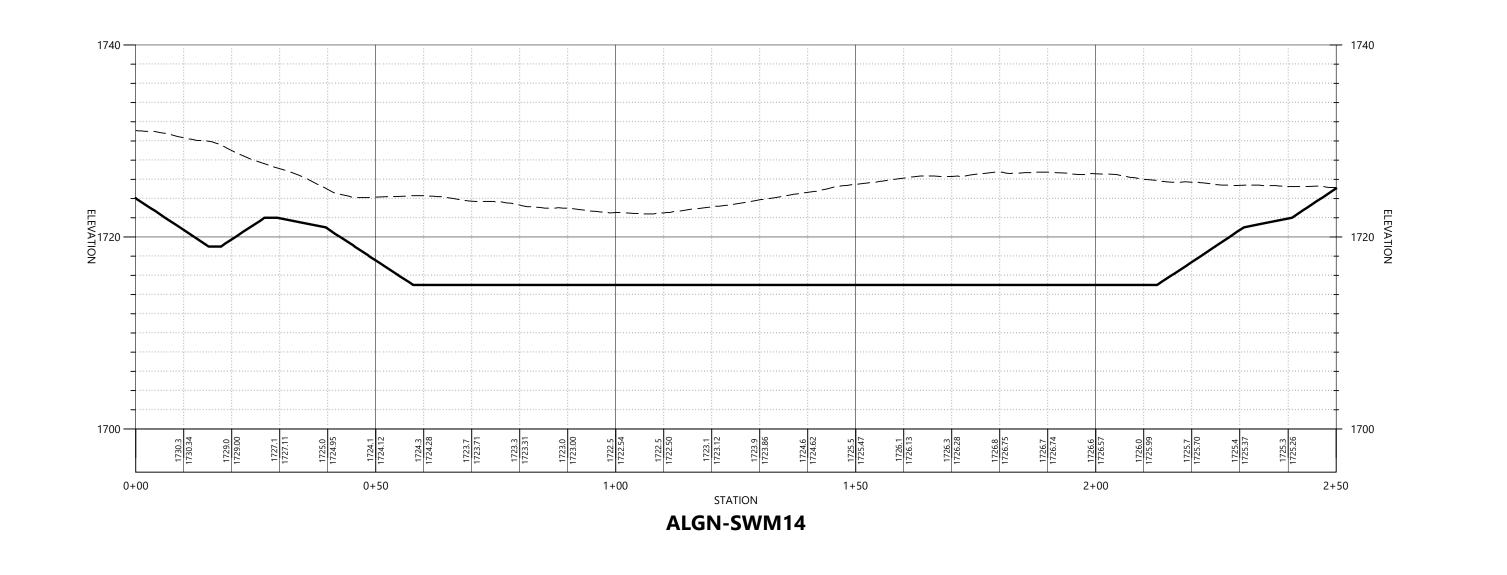
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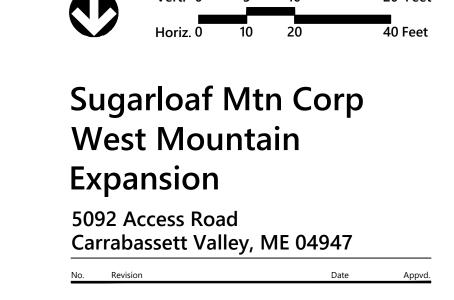
Stormwater Facility Plan and

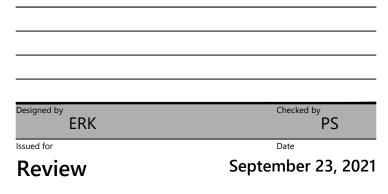








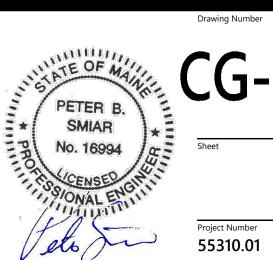




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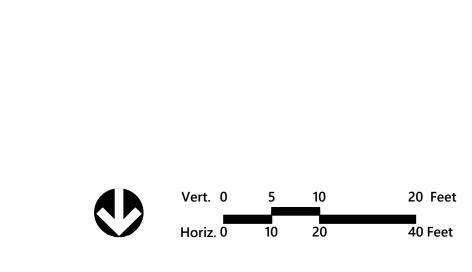
Stormwater Facility Plan and Profile





STATION 1+00
ALGN-SWM15



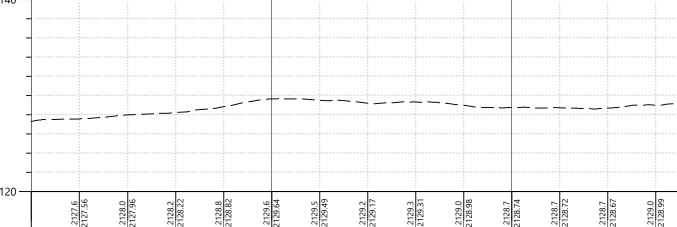


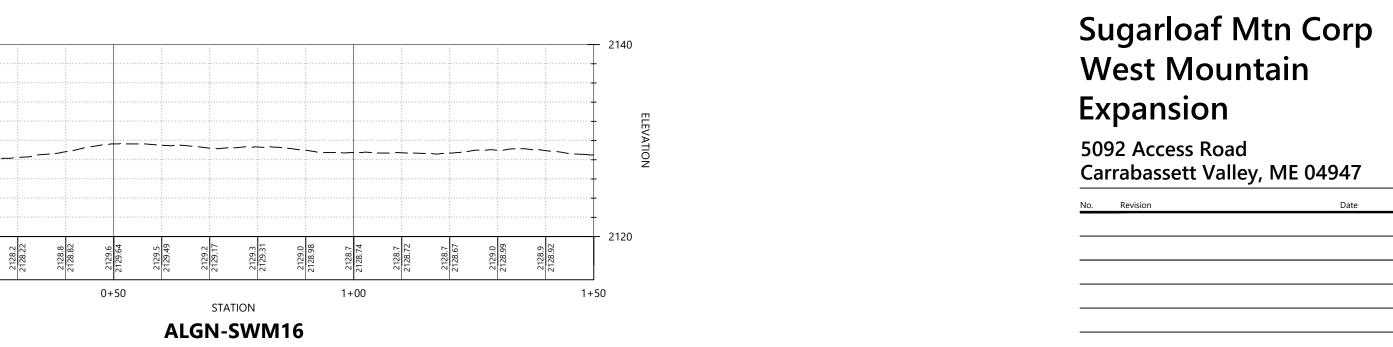
500 Southborough Drive

South Portland, ME 04106

Suite 105B

207.889.3150



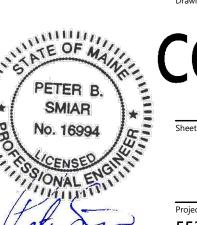


September 23, 2021 Review

Not For Construction

Drawing Title

Stormwater Facility Plan and



VT_LD Source: VHB – FINISHED GRADE — FACE OF WINGWALL — HEAVY RIPRAP GRANULAR BORROW -WALL EXCAVATION BACK OF WALL -(DESIGNED BY OTHERS)

1. THE CONTRACTOR SHALL PROVIDE PRECAST CONCRETE WINGWALLS IN ACCORDANCE WITH STANDARD

2. THE PRECAST UNITS SHALL BE ONE OF THE FOLLOWING, OR APPROVED EQUAL:

3. THE MAXIMUM FACTORED BEARING RESISTANCE FOR THE WINGWALLS IS 5 KSF FOR THE SERVICE CONDITION. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR FACTORED BEARING

4. ELEVATION AT BOTTOM OF WALLS MAY BE LOWERED FOR CONSTRUCTABILITY AT NO ADDITIONAL COST TO THE DEPARTMENT.

STREAMBED MATERIAL FOR CHANNEL FORMATION AND OUTLET PROTECTION

Cumulative Percent of particles finer than indicated particle size	PARTICLE SIZE (inches)	PARTICLE TYPE
D10	< 0.04	sand
D16	1.0-2.0	gravel
D35	3.0-4.0	cobble
D50	8.0-10.0	cobble
D84	14.0-16.0	boulder

DESCRIPTION	SIZE	BUCKETS	PERCENT
ROCK/BOULDER	WELL GRADED 12-16"	0.5	7 - 12%
ROCK/COBBLE	WELL GRADED 8 - 12"	2	35 - 40%
BANK RUN GRAVEL	0.08 - 2.5"	2	35 - 40%
COURSE SAND	0.04 - 0.08" (1 - 2 MM)	0.75	12 - 17%

N.T.S.

- 1. ALL IMPORTED BEDDING MATERIAL SHALL CONSIST OF FIELD STONE OR NATURAL RIVER ROCK SIMILAR IN COLOR AND APPEARANCE TO IN-SITU MATERIALS.
- CRUSHED STONE SHALL NOT BE PERMITTED. BANK RUN GRAVEL MAY INCLUDE UP TO 5% CLAY, SILT, AND/OR SAND, AND UP TO 25% COBBLE AND SHALL HAVE NATURAL COLOR (BROWN, TAN, YELLOW, OR WHITE).
- 4. SAND SHALL BE WELL MIXED AND PREDOMINANTLY 1.0 TO 2.0 MILLIMETERS IN SIZE AND HAVE
- THE GRADATION OF IMPORTED MATERIALS SHALL FALL WITHIN THE ENVELOPE AS INDICATED IN THE TABLE ABOVE. 6. COBBLE-GRAVEL VOID RATIO IS ESTIMATED AT 20%. THEREFORE, 20% BY VOLUME OF CL
- MATERIAL SHALL BE ADDED TO THE COBBLE-GRAVEL-SAND MATERIAL PRIOR TO PLACEMENT IN THE DESIGNATED AREAS. SEE CONSTRUCTION SPECIFICATIONS FOR DETAILS RELATIVE TO MIXING, PLACING, AND COMPACTING STREAMBED MATERIAL.

Source: VHB

Streambed Material

10. FOR CULVERT DIMENSIONS, REFER TO PLAN SHEETS **Stream Crossing SC-1** Source: VHB/CONTECH

5. THE CULVERT SHALL CONSIST OF PLATES, RIBS, AND APPURTENANT ITEMS AS SHOWN ON THE PLANS AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM B864 AND AASHTO M 219. PLATE

7. THE CULVERT SHALL BE ASSEMBLED IN ACCORDANCE WITH THE SHOP DRAWINGS PROVIDED BY THE MANUFACTURER AND PER THE MANUFACTURER'S RECOMMENDATIONS. BOLTS SHALL BE

8. THE BOX CULVERT SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, THE MANUFACTURER'S RECOMMENDATIONS AND THE AASHTO STANDARD SPECIFICATION FOR

9. THE BEDDING SHOULD BE CONSTRUCTED TO A UNIFORM LINE AND GRADE USING MATERIAL OUTLINED IN "BACKFILL REQUIREMENTS" SECTION ON THIS SHEET. THE FOUNDATION MUST BE CAPABLE

EV-10

- LIMIT EXCAVATION

- FOOTING PADS

GRAVEL (TYP)

BOX CULVERT DIMENSIONS (WIDTH x HEIGHT) NOTED ON PLANS ARE FOR CLEAR OPENING AND DO NOT INCLUDE BURIED (SUBGRADE) PORTIONS OF CULVERTS.

6. BOLTS AND NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307 OR ASTM A449 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.

FOR FOOTING (TYP)

ALSP SINGLE

RADIUS

ARCH

REVEGETATE STONES SLOPES IN ACCORDANCE

WITH REVEGETATION PLAN.

COORDINATE WITH OWNER

Placed Stone Slope

2 FT MIN. -

N.T.S.

HEADWALL -

FOR PERMIT REQUIREMENTS —

PLACED STONE (2 SF MINIMUM

SURFACE AREA) -

CAP ROCK-

STONE FILL

I. SLOPE TO BE FOUNDED ON UNDISTURBED MATERIAL

OR GRAVEL AND COMPACTED CONSISTENT WITH GEOTECHNICAL ENGINEERS RECOMMENDATIONS.

2. REQUIRED FOR ALL SLOPES STEEPER THAN 2:1(H:V)

3. SLOPES MAY BE ADJUSTED WHERE APPROVED BY

GEOTECHNICAL ENGINEER.

GRAVEL ROAD

- IMPORTED STREAM BED MIX

Source: VHB

ALSP SINGLE

FOOTING PAD

PROFILE VIEW

12" MIN. -

- COMPACTED SUBGRADE

— 2" CRUSHED STONE BEDDING

EV-11

LD_760

6" LOAM & SEED

MAX. HEIGHT TO TERRACE

Notes:

SEE EROSION CONTROL BLANKET DETAIL FOR SLOPES STEEPER THAN 3 HORIZONTAL: 1 VERTICAL

AND MAXIMUM FLOW LENGTH ALONG BENCH SHALL NOT EXCEED 800

WHERE FLATTER SLOPES WOULD NOT SIGNIFICANTLY ALTER LIMITS

2. LONGITUDINAL BENCH GRADE ALONG TERRACE TO BE 2% TO 3%,

3. VEGETATED SLOPES MAY BE USED IN PLACE OF STONE SLOPES

OF CLEARING, AND WHERE APPROVED BY ENGINEER.

GRAVEL ROAD

STREAM

BED MIX

HIGHWAY BRIDGES, SECTION 26 (DIVISION II).

SECTION VIEW

1. CULVERT TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

. CULVERT HEADWALLS SHALL INCLUDE WING-WALLS AS MAY BE REQUIRED AND/OR AS INDICATED ON SITE PLANS.

THICKNESSES, RIB SPACINGS, END TREATMENT, AND TYPE OF INVERT AND FOUNDATION SHALL BE AS INDICATED ON THE PLANS.

TIGHTENED USING AN APPLIED TORQUE BETWEEN 90 AND 135 FT-LBS DEPENDING ON THE LOCATION OF THE BOLTS IN THE STRUCTURE.

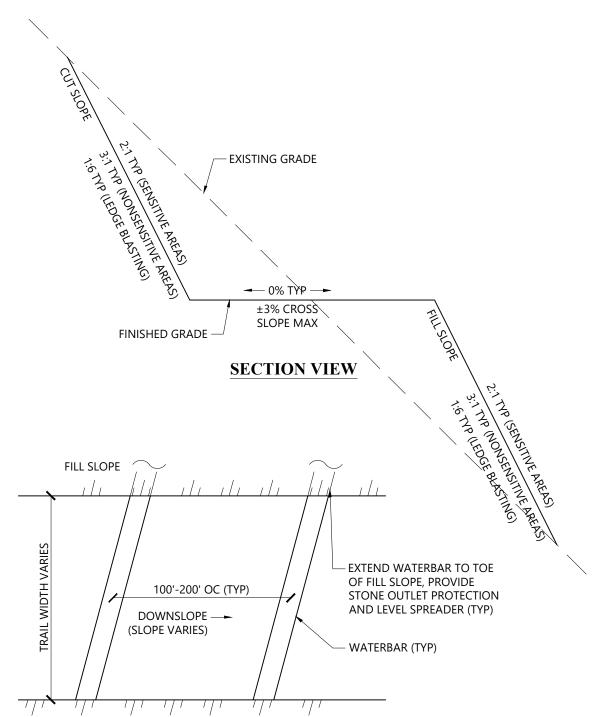
2. CULVERT TO BE CORRUGATED METAL PIPE CAPABLE OF WITHSTANDING HS-20 LOADING.

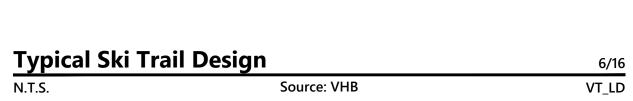
OF PROVIDING A BEARING CAPACITY OF AT LEAST TWO TONS PER SQUARE FOOT.

Vegetated Slopes (2:1 or Flatter)

— EX. GRADE (TYP)

20' FOR 2:1 SLOPE 30' FOR 3:1 SLOPE 40' FOR 4:1 SLOPE





TYPICAL WINGWALL SECTION

SPECIFICATIONS SECTION 534. THE WALLS SHALL BE DESIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND THE DESIGN SHALL BE SUBMITTED TO THE RESIDENT FOR REVIEW. PLAN DETAILS ARE SHOWN FOR ESTIMATING PURPOSES ONLY. COST OF WINGWALLS INCLUDED IN

"T-WALL" AS MANUFACTURED BY A LICENSED MANUFACTURER OF NEEL COMPANY. "DOUBLEWAL" AS MANUFACTURED BY A LICENSED MANUFACTURER OF DOUBLEWAL CORP., PLAIN, CONNECTICUT.

RESISTANCE FOR THE STRENGTH CONDITION BASED ON STEM LENGTH RANGES.

Typical Wingwall

N.T.S. Source:

THE BOULDER-COBBLE-GRAVEL-SAND MATERIAL SPECIFIED BELOW MUST BE APPROVED BY THE ENGINEER AT THE CONTRACTOR'S PROPOSED SOURCE PRIOR TO BEING PLACED IN THE STREAM

- NATURAL COLOR (BROWN, TAN, YELLOW, OR WHITE).

 SPECIFIED SEED MIX IS THE NEW ENGLAND LOGGING ROAD MIX (PROPRIETARY BLEND) FROM NEW ENGLAND WETLAND PLANTS, INC. HTTP://WWW.NEWP.COM - OR APPROVED EQUAL
 SEED SHOULD BE APPLIED AT A MINIMUM RATE OF 20 LBS/ACRE (1 LB / 2,200 SF) IMMEDIATELY USING STRAW MULCH TO MINIMIZE THE PRESENCE OF UNDESIRABLE SPECIES (I.E., INVASIVE SPECIES); MULCH SHOULD BE APPLIED AT A RATE OF 2 TONS (100-200 BALES) PER ACRE. **ST-06 Roadway Reclamation Detail**

Source: VHB

TABLE 1

PROPOSED SEED MIX FOR ROAD RECLAMATION

PATH RUSH JUNCUS TENUIS
ROUGH BENTGRASS AGROSTIS SCABRA

SWITCH GRASS

PARTRIDGE PEA

SCIENTIFIC NAME
FESTUCA RUBA

A SCHIZACHYRIUM SCOPARIUM
PANICUM VIRGATUM
ELYMUS VIRGINICUS
ANDROPOGON GERARDII
SORGHASTRUM NUTANS
PANICUM CLANDESTINUM
CHAMAECRISTA FASCICULATA
JUNCUS EFFUSUS



—¾" DIA. HOLE

STEEL SPLICE PLATE DETAIL

6"x¾"x3'-0"

SECTION A-A

1. TIMBER RAILS AND POSTS SHALL BE PLANED ON THE FACE AND TOP

2. STEEL RAILS, SPLICE PLATES, BOLTS. SCREWS, NUTS AND WASHERS

3. AT END POSTS, PROVIDE FULL COVERAGE OF POST FACE WITH

TIMBER RAIL

CURB -

AND THEN PRESSURE TREATED.

TIMBER RAIL AND SPLICE PLATE.

SHALL BE GALVANIZED.

Source: VHB

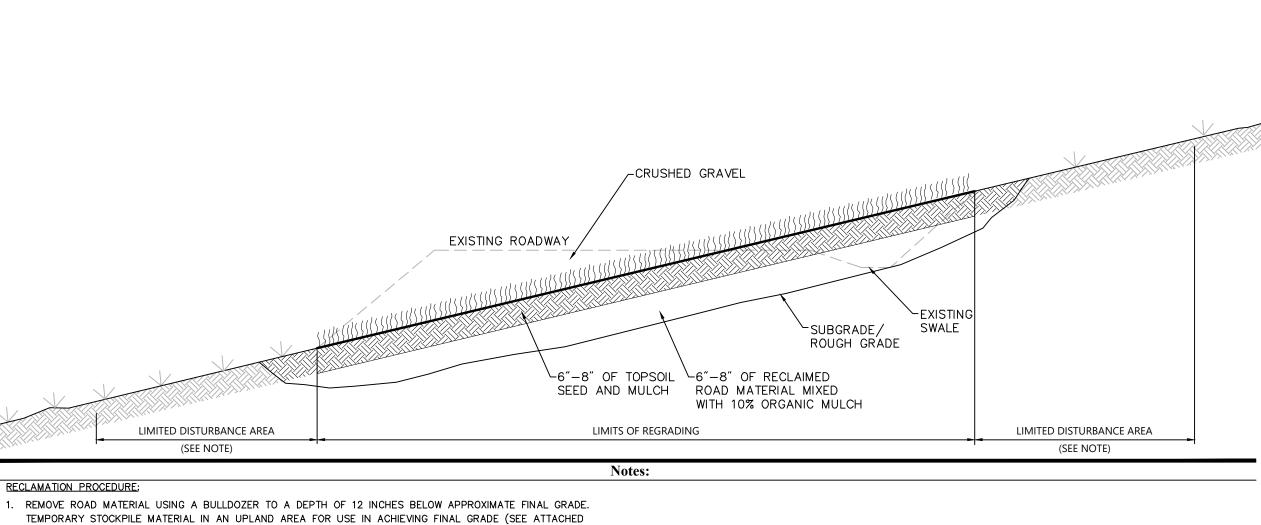
W/45° CHAMFER -

— ¾" X1 ½" BOLT SLOT(TYP.)

DEPTH RECESS

LD_452

— POST



 $-1\frac{1}{16}$ " DIA. HOLES (TYP.)

- 10"X12"X7'-0" POST

— PLATE WASHER

– POST

TIMBER @ 10'-0" O.C.

8 SPACES @ 10" LAG SCREW SPACING (AS SHOWN)

STEEL RAIL DETAIL

6"x 3/8"x9'-10" RAIL

POST CONNECTION DETAIL - TOP VIEW

POST CONNECTION DETAIL - ELEVATION

%"X8" CARRIAGE BOLT W/ HEX NUT & WASHER

(TYP.) —

STEEL RAIL

(SEE DETAIL) —

WASHER —

Steel-Backed Wood Guardrail

ROADWAY RECLAMATION - TYPICAL SECTION);

a. INSTALL SILT FENCE TO SURROUND SOIL STOCKPILE(S)

WEIGHT TRACKED VEHICLE SUCH AS A BOBCAT).

N.T.S.

WHICH WILL INHIBIT DIRECTED RUNOFF AND POTENTIALLY EROSIVE RILLS.

b. IF STOCKPILED MATERIAL WILL NOT BE USED WITHIN 14 DAYS, APPLY MULCH FOR TEMPORARY STABILIZATION

3. CLEAN TOPSOIL (I.E., REASONABLY FREE OF NONORGANIC REFUSE SUCH AS PLASTICS, AS WELL AS CHEMICAL

BE PLACED TO A DEPTH OF 6 TO 8 INCHES ON THE SUB-GRADE MATERIAL TO ACHIEVE FINAL GRADE;

4. THE GRADED AREA SHOULD BE SEEDED AS SOON AS POSSIBLE TO ENSURE SITE STABILIZATION.

TO ENSURE QUICK AND LASTING COVERAGE (SEE TABLE 1 FOR REPRESENTATIVE SEED MIX).

2. STOCKPILED MATERIAL SHOULD BE MIXED WITH APPROXIMATELY 10% COMPOSTED ORGANIC MATTER U.S. ARMY CORPS

COMPENSATORY MITIGATION GUIDANCE., AND PLACED TO A DEPTH OF 8 TO 6 INCHES WITHIN THE EXCAVATED AREA; a. THIS MATERIAL SHOULD BE LIGHTLY COMPACTED TO MINIMIZE THE EFFECT OF LATER SETTLING (I.E., WITH A LIGHT

CONTAMINANTS SUCH AS HERBICIDES) AND WITH AN ORGANIC MATTER CONTENT OF BETWEEN 10 AND 20%, SHOULD

a. THE TOPSOIL SHOULD BE LIGHTLY COMPACTED IN A SIMILAR MANNER TO THE SUB-GRADE MATERIAL; THE BOBCAT SHOULD MOVE IN A DIRECTION THAT IS PERPENDICULAR TO THE SLOPE TO CREATE MICROTOPOGRAPHY

5. THE SEED MIX SHOULD INCLUDE A MIX OF NATIVE SPECIES WHICH CONTAIN BOTH ANNUAL AND PERENNIAL SPECIES

b. IF SEED IS APPLIED BY MECHANICAL OR HAND SPREADING METHODS, THE RESTORED AREA SHOULD BE MULCHED

a. SEED MIX MAY BE APPLIED BY HYDRO-SEEDING, BY MECHANICAL SPREADING, OR BY HAND (FOR SMALLER

N.T.S.

STEEL SPLICE PLATE —

W/ HEX NUT & PLATE

%" X 10 ½" CARRIAGE BOLT

STEEL SPLICE PLATE -

West Mountain Expansion 5092 Access Road Carrabassett Valley, ME 04947

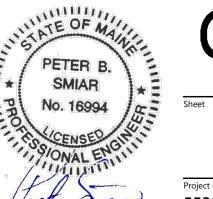
Sugarloaf Mtn Corp

Review September 23, 2021

Not For Construction

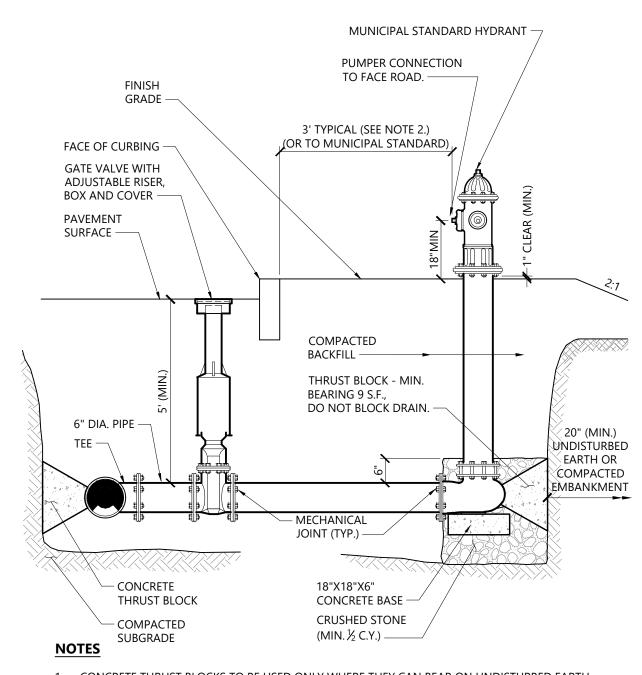
Site Details





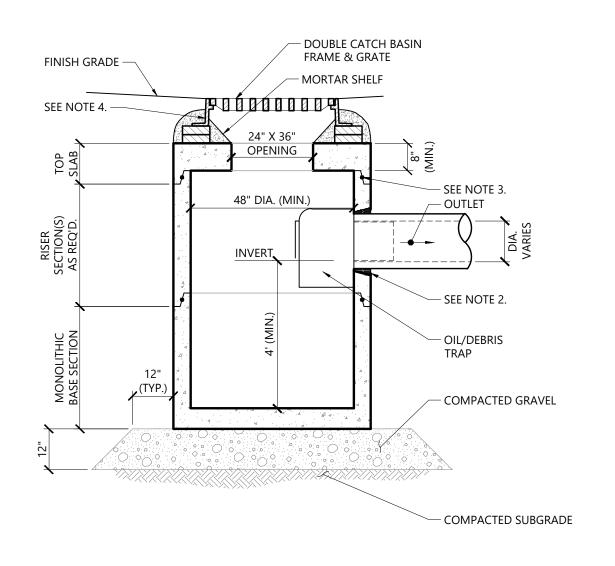
- 1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
- 2. PROVIDE FLEXIBLE WATERTIGHT BOOTED CONNECTION AT ALL PIPE PENETRATIONS
- 3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
- 4. CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH PRECAST CONCRETE RISER RINGS, MAX 12"

Catch Basin (CB) 1/16 LD_100 N.T.S. Source: VHB



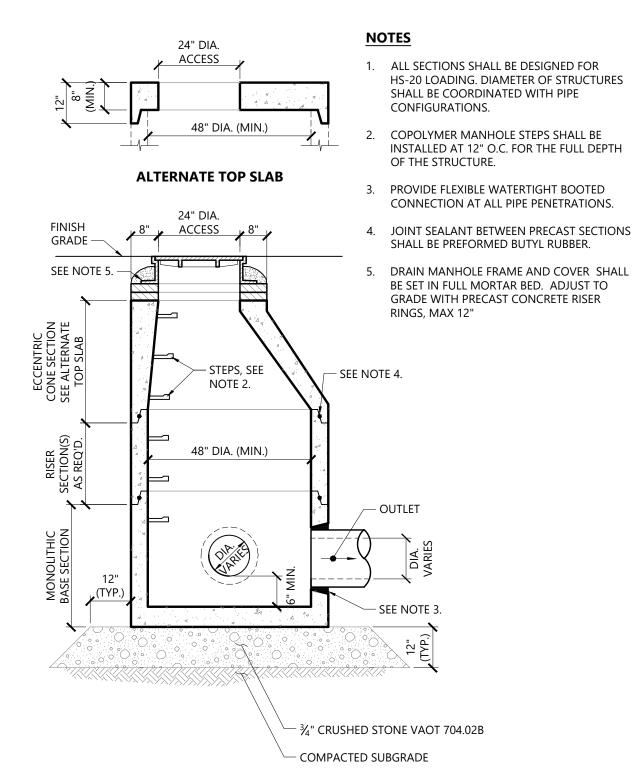
- 1. CONCRETE THRUST BLOCKS TO BE USED ONLY WHERE THEY CAN BEAR ON UNDISTURBED EARTH AS SHOWN. USE CLAMPS AND TIE RODS OR OTHER ACCEPTABLE METHOD OF JOINT RESTRAINT WHERE SOIL CONDITIONS PROHIBIT THE USE OF THRUST BLOCKS.
- 2. HYDRANT IN SIDEWALK AREAS TO BE LOCATED TO PROVIDE MINIMUM CLEAR SIDEWALK PASSAGE WIDTH OF 3 FEET AT HYDRANT.
- 3. A 36-INCH CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT UNLESS OTHERWISE APPROVED BY AUTHORITY HAVING JURISDICTION.

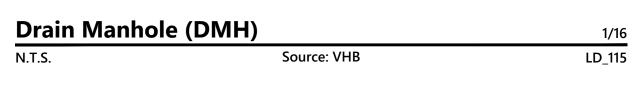
Hydrant Construction 12/18 LD_250 N.T.S. Source: VHB

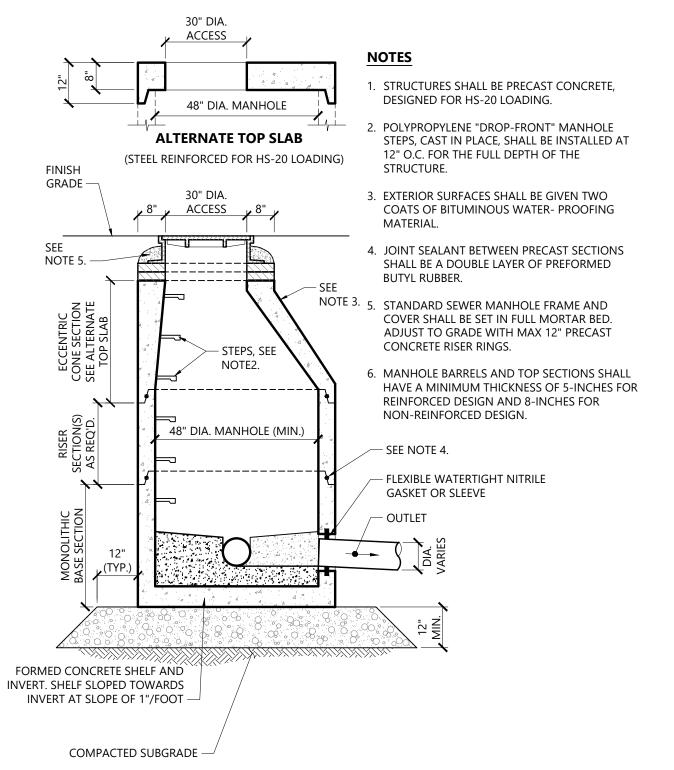


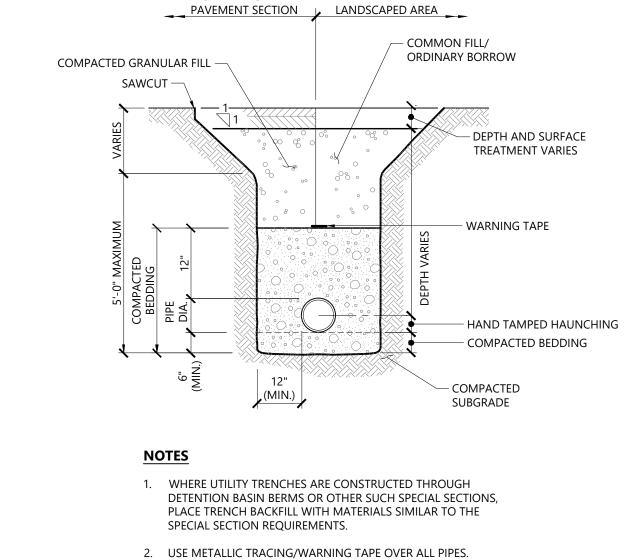
- 1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
- 2. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
- 3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
- 4. DOUBLE CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICKS TYPICALLY, 5 BRICK COURSES MAXIMUM)

Double Grate Catch Basin (DCB) with Oil/Debris Trap 1/16 N.T.S. Source: VHB LD_103





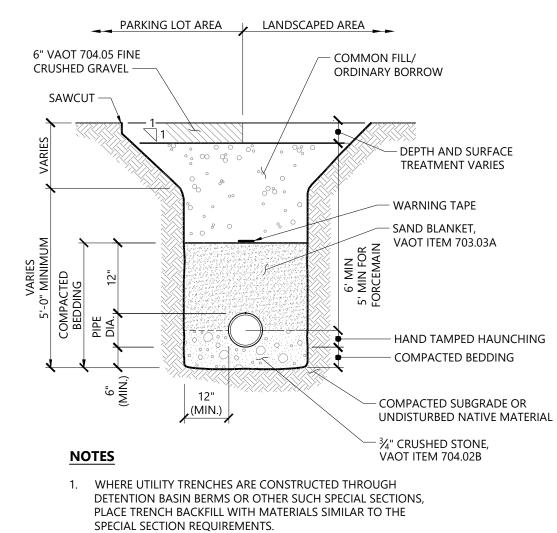




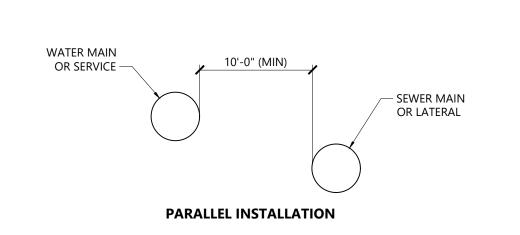
PAVED AREA

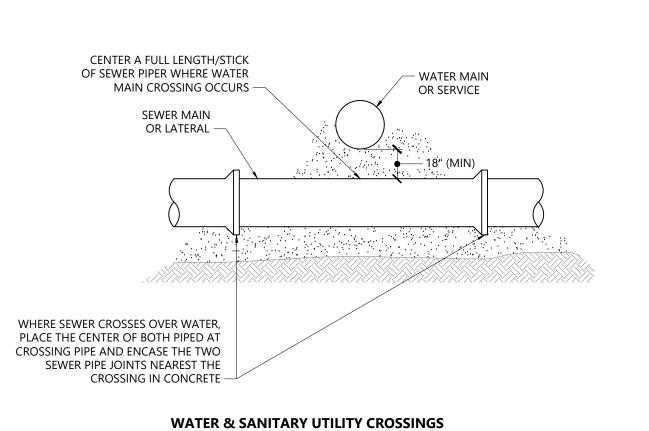
SEE APPLICABLE

Utility Trench LD_300 Source: VHB

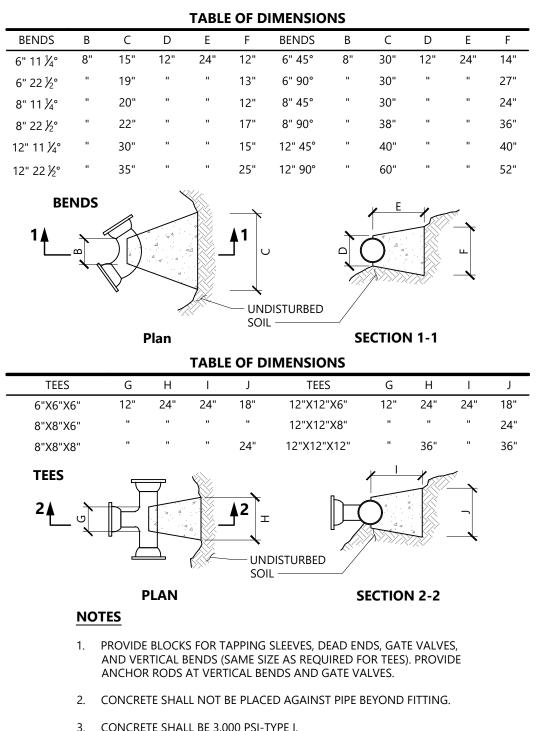


FINAL INSULATION THICKNESS WITH ENGINEER PRIOR TO PLACEMENT.

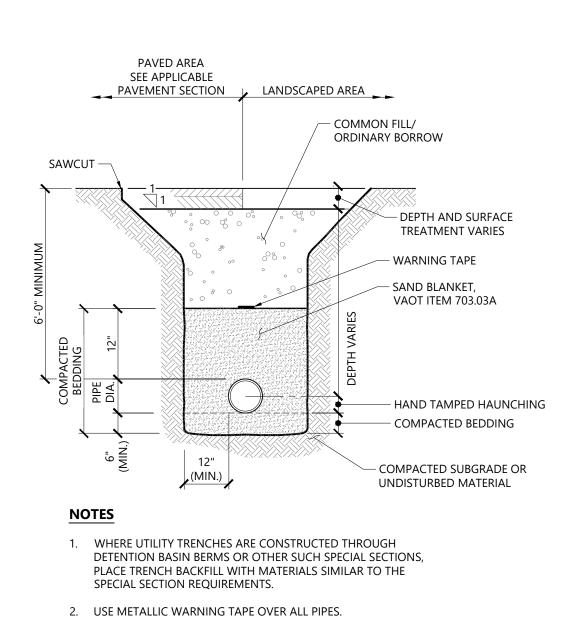




Water / Sewer Separation 11/15



3. CONCRETE SHALL BE 3,000 PSI-TYPE I. **Concrete Thrust Block** N.T.S. Source: VHB LD_260



INSULATION BOARD WHERE COVER IS LESS THAN 6'. VERIFY FINAL INSULATION THICKNESS WITH ENGINEER PRIOR TO PLACEMENT.

Sugarloaf Mtn Corp West Mountain Expansion

5092 Access Road Carrabassett Valley, ME 04947

> RWN September 23, 2021

500 Southborough Drive

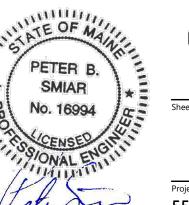
South Portland, ME 04106

Suite 105B

207.889.3150

Review **Not For Construction**

Itility Details



Drawing Number

Source: VHB

2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES. 3. LINE SHALL BE INSULATED WITH 2" EXTRUDED POLYSTYRENE INSULATION BOARD WHERE COVER IS LESS THAN 6'. VERIFY

1/16 Source: VHB

Sanitary Sewer Manhole (SMH)

LD_200-VT N.T.S.

1/16

Sewerline Trench N.T.S.

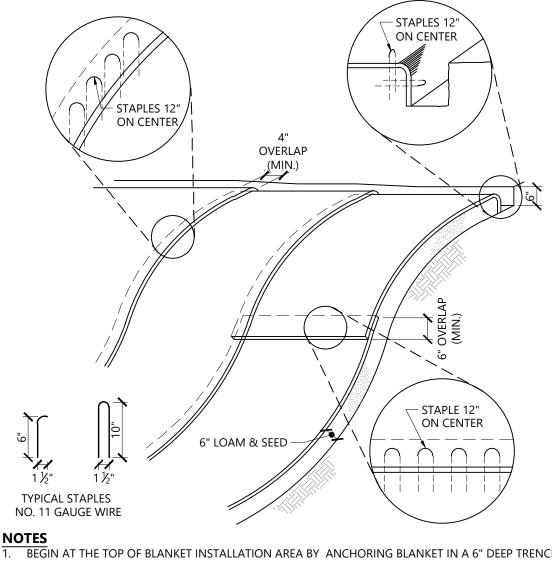
3. LINE SHALL BE INSULATED WITH 2" EXTRUDED POLYSTYRENE

Waterline Trench N.T.S. Source: VHB

- 1. COMPOST MULCH TUBE SHALL BE FILTREXX SILTSOXX, OR APPROVED
- 2. SILTSOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.
- 3. SILTSOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
- 4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
- 5. IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFFSITE.
- 6. SEE SPECIFICATIONS FOR SOCK SIZE, AND COMPOST FILL REQUIREMENTS.

LD_658

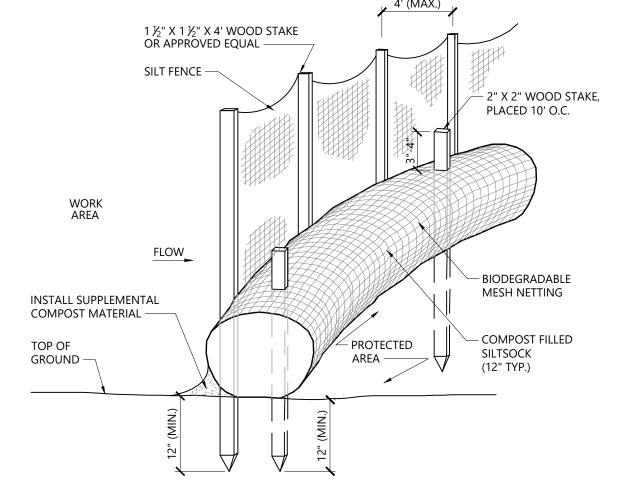
Compost Mulch Tube - Erosion Control Barrier Source: VHB



1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.

- 2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
- 3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
- 4. WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE UPPER BLANKET END OVER LOWER END WITH 6 INCH (MIN.) OVERLAP AND STAPLE BOTH TOGETHER.
- 5. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
- 6. EROSION CONTROL BLANKETS TO BE USED IN AREAS WHERE SLOPES ARE EQUAL TO OR GREATER THAN 3:1. ALTERNATIVES MAY INCLUDE MULCH NETTING OVER LOOSE MULCH, OR EROSION CONTROL MIX AS

SPECIFIED IN THE MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs). **Erosion Control Blanket Slope Installation** N.T.S. Source: VHB



1/16

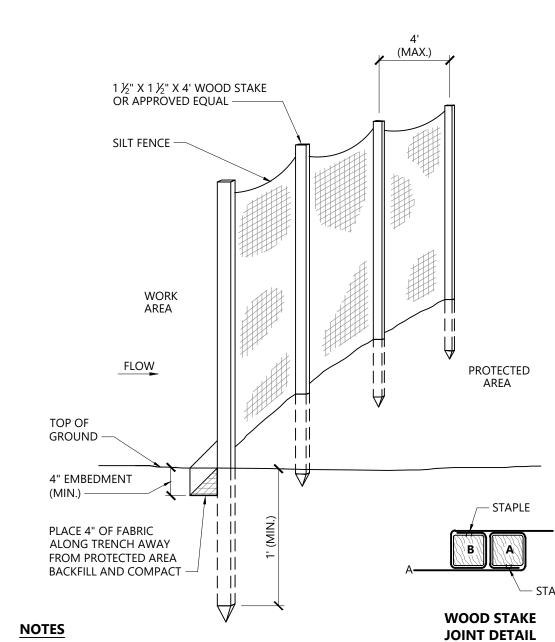
LD_680

- 1. SILTSOCK SHALL BE FILTREXX SILTSOXX, OR APPROVED EQUAL.
- 2. SILTSOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.
- 3. SILTSOCK SHALL BE INSPECTED WEEKLY AT A MINIMUM AND BEFORE AND WITHIN 24 HOURS AFTER ALL STORM EVENTS (RAINFALL). IF REPAIR IS REQUIRED, REPAIR WORK SHALL BE INITIATED UPON DISCOVERY OF THE PROBLEM BUT NO LATER THAN THE END OF THE NEXT WORKDAY. IF ADDITIONAL BMPs OR SIGNIFICANT REPAIR OF BMPs ARE NECESSARY, IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT (RAINFALL). ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.
- 4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
- 5. IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFFSITE.
- 6. SILTSOCK / SILT FENCE BARRIER SHALL BE USED WHERE DISTURBANCE OCCURS WITHIN 50 FT OF A PROTECTED NATURAL RESOURCE.

7. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE INSTALLED ALONG EXISTING GRADES WITH ENDS

TURNED UPSLOPE. **Siltsock / Silt Fence Barrier**

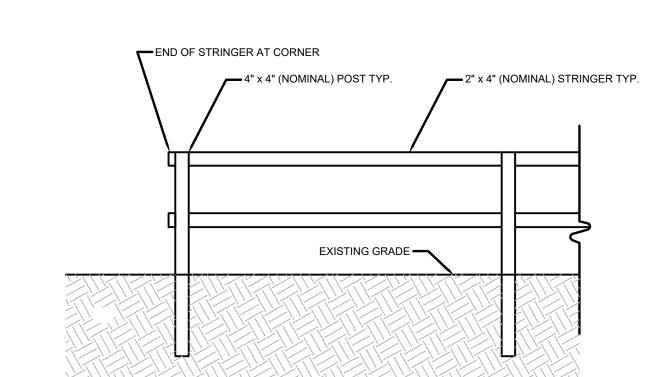
1/16 Source: VHB N.T.S. LD_658-A



1. SILT FENCE MAY BE REQUIRED IN ADDITION TO EROSION CONTROL TUBES WHERE SLOPES ARE GREATER THAN 2:1.

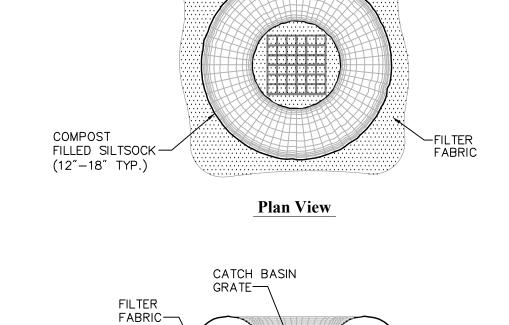
2. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE INSTALLED ALONG EXISTING GRADES WITH ENDS TURNED UPSLOPE.

Silt Fence Barrier 1/16 N.T.S. Source: VHB LD_650



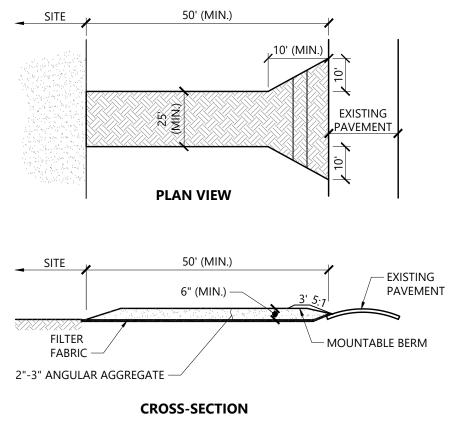
Tree Protection Fence

Source: Wolf Landscape Architecture



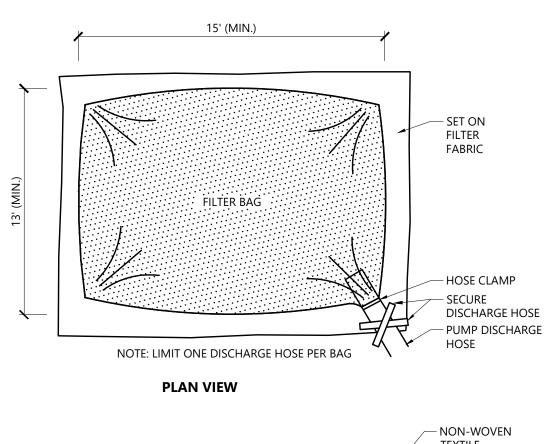
- 1. ENCLOSE STRUCTURE WITH SILTSOCK IMMEDIATELY AFTER CATCH BASIN CONSTRUCTION. MAINTAIN UNTIL PAVING BINDER COURSE IS COMPLETE OR A PERMANENT STAND OF GRASS HAS BEEN ESTABLISHED.
- 2. IF GRATE IS AGAINST EXISTING CURB THEN SILTSOCK IS TO BE PLACED AROUND THREE SIDES OF GRATE ONLY.
- 3. GRATE TO BE PLACED OVER FILTER FABRIC.
- 4. SILTSOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY
- 5. SILTSOCK SHALL BE FILTREXX SILTSOXX, OR APPROVED EQUAL.

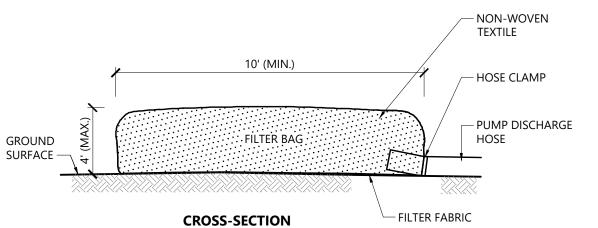
Catch Basin Sediment Trap - Siltsock



- 1. EXIT WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS
- 2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. SEDIMENTS SHALL BE REMOVED BY VACUUM SWEEPING
- 3. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. INSPECTION AND MAINTENANCE SHALL BE PERFORMED WEEKLY AND BEFORE AND AFTER STORM EVENTS.
- 4. STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

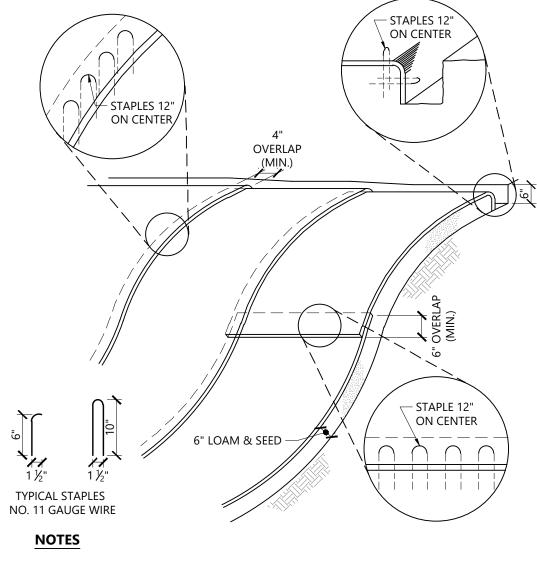
Stabilized Construction Entrance/Exit 7/19 N.T.S. LD_682





- 1. BAG TO BE USED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- 2. DEWATERING FILTER BAGS SHALL BE PLACED A MINIMUM OF 75 FEET AWAY FROM PROTECTED NATURAL RESOURCES. ENSURE DOWN GRADIENT SLOPE IS WELL VEGETATED.

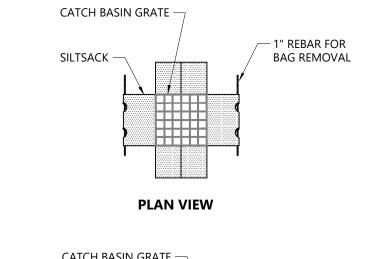
Dewatering Filter Bag 1/16 N.T.S. LD_691 Source: VHB

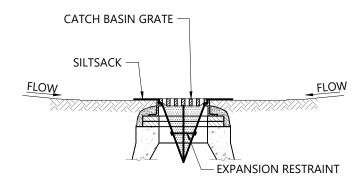


- 1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
- 2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
- 3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
- 4. WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE UPPER BLANKET END OVER LOWER END WITH 6 INCH (MIN.) OVERLAP AND STAPLE BOTH TOGETHER.
- 5. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.

6. EROSION CONTROL BLANKETS SHALL BE USED IN ALL AREAS WHERE SLOPES EXCEED 3:1.

Erosion Control Blanket Slope Installation 1/16 N.T.S. LD_680





SECTION VIEW

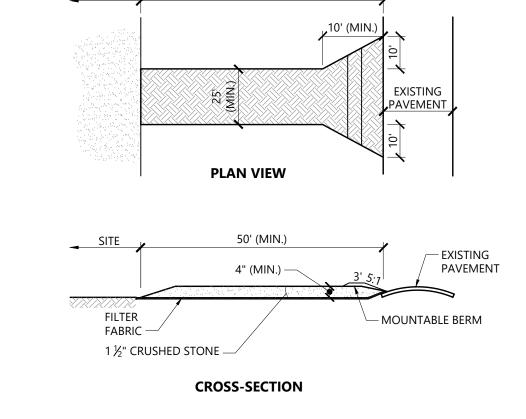
- 1. INSTALL SILTSACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN
- BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE IS PLACED AND HAY BALES HAVE BEEN REMOVED.
- GRATE TO BE PLACED OVER SILTSACK.

Siltsack Sediment Trap

N.T.S.

3. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED

Source: VHB

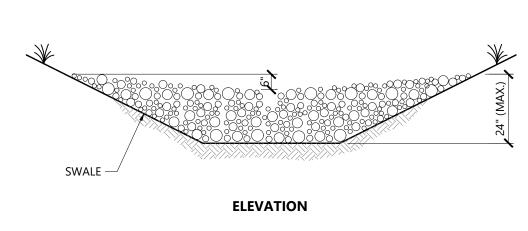


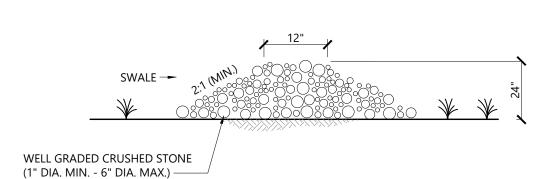
1/16

LD_674

- 1. EXIT WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS
- 2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
- 3. STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

Stabilized Construction Exit N.T.S. Source: VHB LD_682





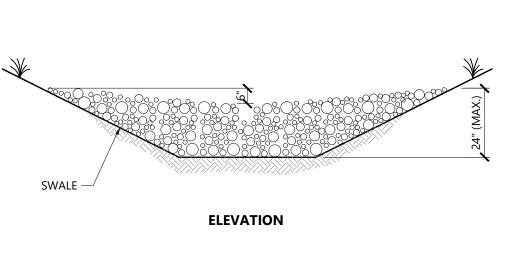
CROSS-SECTION

N.T.S.

- 1. TOP OF DOWNGRADIENT CHECKDAM AND BOTTOM OF UPGRADIENT CHECKDAM TO BE SET AT THE SAME ELEVATION.
- 2. STONE CHECKDAMS MAY BE REMOVED WHEN 90% OF THE VEGETATIVE COVER IS

Source: VHB

Temporary Stone Checkdam



September 23, 2021 Review **Not For Construction**

Expansion

5092 Access Road

Erosion Prevention and Sediment Control Details

Sugarloaf Mtn Corp West Mountain

Carrabassett Valley, ME 04947

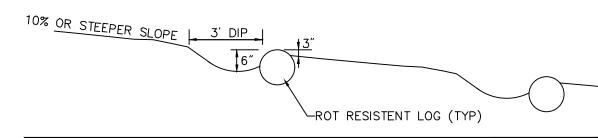
Drawing Number

500 Southborough Drive

South Portland, ME 04106

Suite 105B

207.889.3150



- 1. WATERBARS SHOULD BE INSTALLED IN SECTIONS WITH SLOPES GREATER THAN OR EQUAL TO 10%.
- 2. WATERBARS SHALL BE CONSTRUCTED WITH 10" DIAMETER MINIMUM PEELED LOGS, HELD IN PLACE WITH LARGE STONES. APPROPRIATE SPECIES INCLUDE SPRUCE, HEMLOCK, BEECH, AND OAK.
- CONTRACTOR TO OBSERVE THE CLEARINGS DURING A RAINSTORM TO DETERMINE IF ADDITIONAL WATERBARS OR ADJUSTMENTS TO WATERBARS ARE NEEDED.
- 4. WATERBAR DESIGN AND SPACING PROVIDED FOR GUIDANCE TO CONTROL EROSION ALONG CROSS—COUNTRY CLEARINGS. THE CONTRACTOR SHALL DETERMINE IF OTHER APPROPRIATE MEASURES ARE REQUIRED TO CONTROL RUNOFF AND EROSION IN CLEARING AREAS.
- FOR WIDER LIMITS OF CLEARING MULTIPLE LOG LENGTHS MAY BE REQUIRED. ANCHOR ALL LOG ENDS WITH LARGE STONES AS SHOWN.

Waterbars - For Cross-Country Utility Clearings N.T.S. Source: VHB

NOTE: SLOPES OF WATER BAR TO BE MAINTAINED AT 1 ON 4. SECTION 'A-A' (THROUGH WATER BAR) ROAD SLOPE WATER BAR
PERCENT SPACING — FT **Notes:** 1. INSTALL THE WATER BAR AS SOON AS THE RIGHT OF WAY IS CLEARED AND GRADED.

LIMITS OF WATER BAR

2. STRIP EXISTING SOD FROM BASE OF DIVERSION RIDGE PRIOR TO PLACING FILL. 3. TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS 4. VEHICLE CROSSING SHALL BE STABILIZED WITH GRAVEL. EXPOSED AREAS SHALL BE IMMEDIATELY SEEDED AND MULCHED. 5. THE OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA. FIELD SPACING WILL BE ADJUSTED TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION WILL BE PROVIDED WHEN NATURAL CONDITIONS ARE NOT ADEQUATE. 6. INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION. 7. WATERBAR SLOPE SHALL NOT EXCEED 2% AS SHOWN. 8. FEDERAL, STATE, AND/OR LOCAL REQUIREMENTS MAY OVERRIDE THESE SPECIFICATIONS AND/OR THE USE OF THIS MEASURE.

Source: VHB

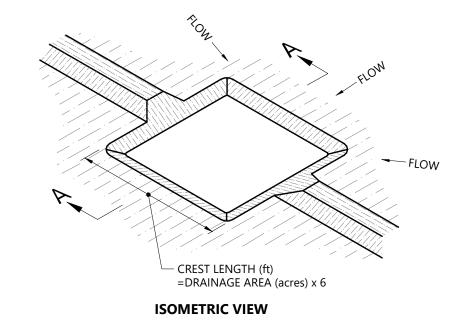
ER-04

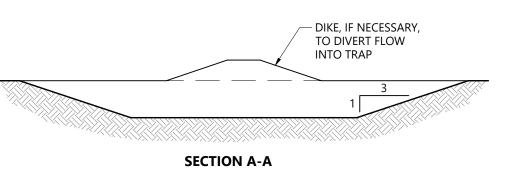
Typical Water Bar Detail

N.T.S.

A. BURY THE TOP END OF THE JUTE STRIPS IN A TRENCH 6 INCHES OR MORE IN DEPTH. SECURE WITH ROW OF STAPLES IN VERTICAL TRENCH WALL, 6 INCH SPACING, 4 INCHES DOWN FROM TOP OF TRENCH B. TAMP THE TRENCH FULL OF SOIL. SECURE WITH ROW OF STAPLES, 6 INCH SPACING, 4 INCHES DOWN FROM THE TRENCH. C. OVERLAP - BURY UPPER END OF LOWER STRIP AS IN 'A' AND 'B'. OVERLAP END OF TOP STRIP 4 INCHES AND STAPLE. D. EROSION STOP - FOLD OF JUTE BURIED IN SLIT TRENCH AND TAMPED; DOUBLE ROW OF STAPLES. — 4 INCH OVERLAP OF JUTE STRIP WHERE TWO OR MORE STRIP WIDTHS ARE REQUIRED. STAPLES ON 18 INCH ON CENTER. - STAPLE OUTSIDE EDGE 2 FEET ON CENTER. OVERLAP TYPICAL STAPLES
NO. 11 GAUGE WIRE * INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS

Erosion Control Blanket Swale Installation 1/16 LD_681 N.T.S. Source: VHB





- 1. THE TRAP SHALL BE INSTALLED AS CLOSE TO THE DISTURBED AREA OR SOURCE OF SEDIMENT AS
- 2. THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE TRAP SHALL BE LESS THAN 5 ACRES.
- 3. THE MINIMUM VOLUME OF THE TRAP SHALL BE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.
- 4. THE SIDE SLOPES OF THE TRAP SHALL BE 3:1 OR FLATTER, AND SHALL BE STABILIZED IMMEDIATELY AFTER THEIR CONSTRUCTION.
- 5. THE OUTLET OF THE TRAP SHALL BE A MINIMUM OF ONE FOOT BELOW THE CREST OF THE TRAP AND SHALL DISCHARGE TO A STABILIZED AREA.
- 6. THE TRAP SHALL BE CLEANED WHEN 50 PERCENT OF THE ORIGINAL VOLUME IS FILLED.
- 7. THE MATERIALS REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF AND STABILIZED.
- 8. TEMPORARY SEDIMENT TRAPS SHALL BE PLACED A MINIMUM OF 75 FEET AWAY FROM PROTECTED NATURAL RESOURCES. ENSURE DOWN GRADIENT SLOPE IS WELL VEGETATED.

MUICH MATERIAL AND APPLICATION

WOOD CHIPS OR AIR DRIED, FREE OF SHAVINGS OBJECTIONABLE MATERIAL 500 - 900 LBS 10 - 20 TONS 2d0'7"

Erosion Control | WELL-GRADED MIXTURE OF | *Slopes 3(Hz.):1(Vert.) = 2 inch depth plus

Notes:

1. APPLY TACKIFIER AS NEEDED TO MINIMIZE POTENTIAL

2. MULCH MUST NOT CONTAIN INVASIVE PLANT SPECIES.

3. TACKIFIER MAY BE WATER, NETTING, OR SIMILAR.

Source: VHB

FOR MULCH TO BLOW AWAY.

(SEEDS OR SEEDLINGS)

PARTICLE SIZES. ORGANIC additional 1/2 inch depth per 20 ft. of slope up to CONTENT BETWEEN 100 ft **Slopes between 3(Hz):1(Vert.) and

80-100% DRY WEIGHT.
PARTICLE SIZE SHALL
inch per 20 ft. of slope up to 100 ft. ***Slopes

PASS 6" SCREEN (100%) steeper than 2(Hz.):1(Vert.) applicability to specific

50 LBS

PER ACRE

2,000 LBS

405 CY

BALES)

100 ft. **Slopes between 3(Hz.):1(Vert.) and

site and mulch depth to be reviewed and approved prior to use by OPSC or EPSC Specialist

3 - 9 CY 3 - 9 CY 1-3"

2 TONS COVER ABOUT (100-120 90% SURFACE

N/A

EV-08

Temporary Sediment Trap

WOOD FIBER CELLULOSE

(PARTIALLY DIĜESTED WOOD FIBERS)

GRAVEL, CRUSHED STONE OR SLAG

COMPOST

Mulch Table

N.T.S.

N.T.S. Source: VHB

QUALITY STANDARDS

MADE FROM NATURAL

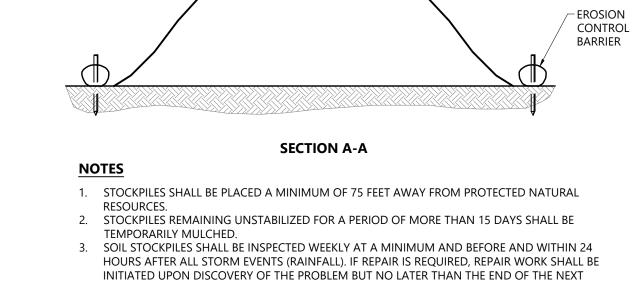
WOOD USUALLY WITH GREEN DYE AND DISPERSING AGENT

WASHED; SIZE 2B OR 3A

HAY OR STRAW AIR-DRIED; FREE OF 90 - 100 LBS, UNDESIRABLE SEEDS AND 2-3 BALES

COURSE MATERIALS

UP TO 3" PIECES, MODERATELY TO HIGHLY STABLE



WORKDAY. IF ADDITIONAL BMPS OR SIGNIFICANT REPAIR OF BMPS ARE NECESSARY,

IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM

PLAN VIEW

- STAKED EROSION

SOIL STOCKPILE

─ SOIL STOCKPILE

CONTROL BARRIER

500 Southborough Drive

South Portland, ME 04106

Suite 105B

207.889.3150

EVENT (RAINFALL). ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.

STAKED EROSION

- PROTECTED NATURAL RESOURCE

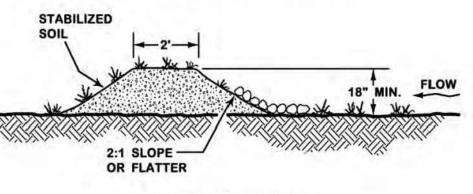
CONTROL BARRIER

N.T.S. Source: VHB

Soil Stockpile Sediment Control

2:1 SLOPE OR FLATTER

DIVERSION WITH EXCAVATION



DIVERSION WITH FILL

- 1. RUNOFF SHALL BE DIVERTED FROM STORMWATER ROADSIDE BUFFERS THAT ARE CONSTRUCTED ON FILL OR RESHAPED SLOPES UNTIL A DENSE SOD IS ESTABLISHED, OR THOSE AREAS MUST BE PROTECTED BY A 3" LAYER OF EROSION CONTROL MIX OR OTHER WOODWASTE MATERIAL APPROVED BY MAINEDEP BEFORE STORMWATER IS DIRECTED TO IT. 2. ALL DIVERSION DIKES AND BERMS SHOULD BE COMPACTED AND STABILIZED WITH MATERIAL
- **Runoff Diversion**

Source: Maine DEP Erosion and Sediment Control BMP Manual

THAT IS APPROPRIATE FOR THE SLOPE AND EXPECTED RUNOFF, SUCH AS EROSION CONTROL BLANKETS, GRAVEL, OR RIPRAP.

Sugarloaf Mtn Corp **West Mountain** Expansion

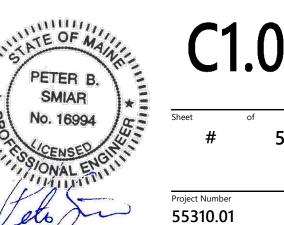
5092 Access Road Carrabassett Valley, ME 04947

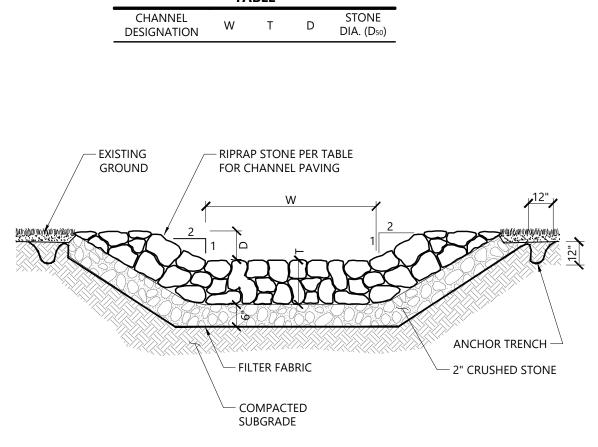
September 23, 2021 Review

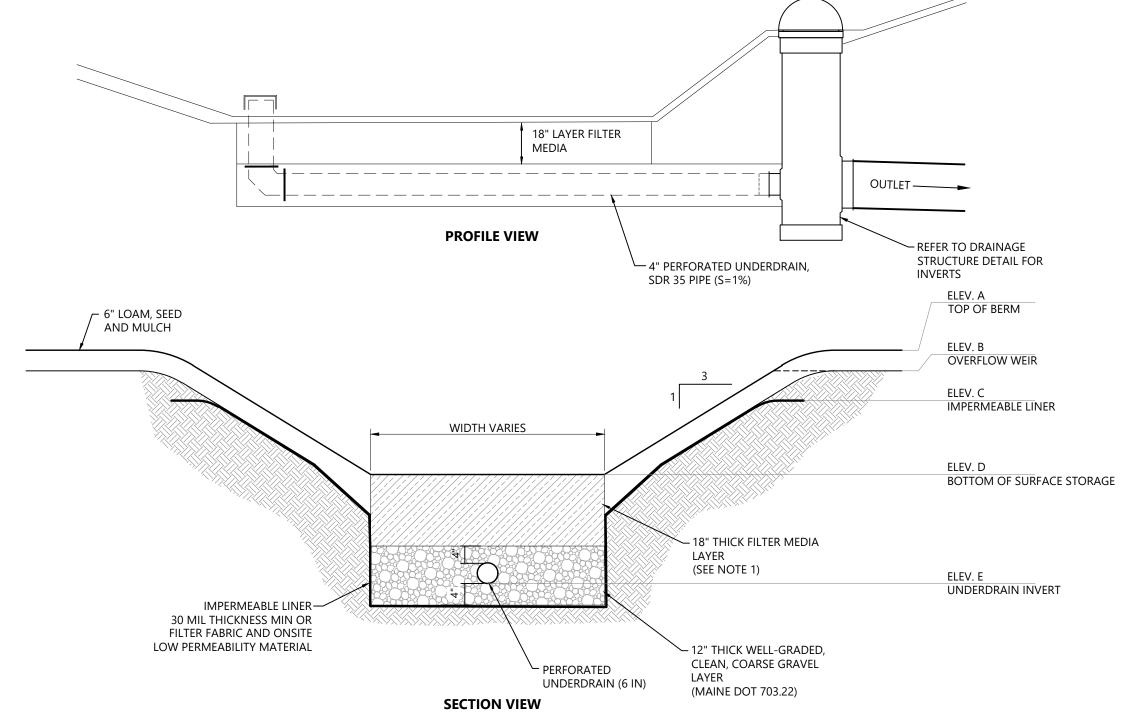
Not For Construction

RWN

Erosion Prevention and Sediment Control Details







ELEVATION TABLE

VSF# A B C D E VEGETATED SOIL FILTER REQUIREMENTS PER MAINE DEP CHAPTER 500, LATEST EDITION. MINIMUM REQUIREMENTS PER THE DEVELOPMENT:

2. FILTER MEDIA SHALL CONSIST (BY VOLUME) OF:

NO. 200

200 (CLAY SIZE)

INCHES/HOUR.

• 50% SAND (ASTM C-33 CONCRETE SAND), 20% SANDY LOAM TO FINE SANDY LOAM CONFORMING TO THE FOLLOWING GRADATION: SIEVE (ASTM D422)

• DRAIN TIME = 24-48 HOURS, ASSUMES AN RATE OF 3

• 30% MATURE COMPOSTED WOODY FIBERS AND FINE SHREDDED BARK MULCH, SUPERHUMUS OR EQUIVALENT.

75-95

60-90 35-85

20-70

< 2.0

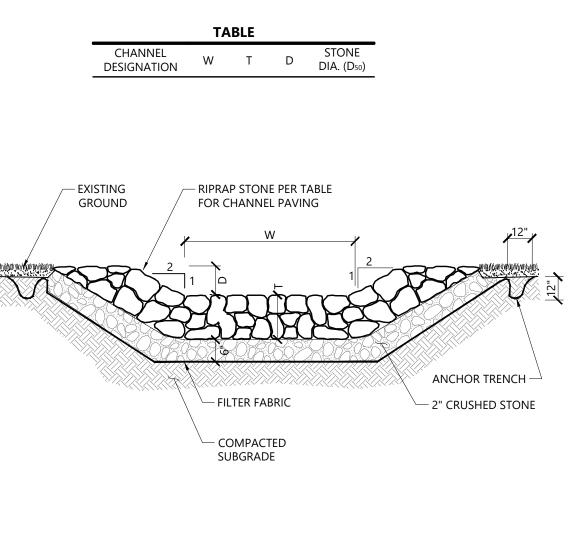
 RESULTING MIXTURE SHALL HAVE 8% TO 12% PASSING THE NO. 200 SIEVE AND A CLAY CONTENT OF LESS THAN 2%.

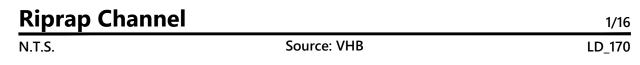
 FILTER MEDIA SHALL BE FIELD TESTED TO INSURE DRAINAGE WITHIN 24 TO 48 HOURS AND HAVE SUFFICIENT FINES TO ENSURE FILTRATION OF FINE PARTICLES. GRADATION SHALL BE ADJUSTED, IF REQUIRED, TO MEET THE REQUIRED DRAW DOWN TIME. ADJUSTED GRADATIONS AND DRAINAGE TIME SHALL BE SUBMITTED TO DESIGN ENGINEER FOR REVIEW AND APPROVAL.

IMPERMEABLE LINER SHALL CONSIST OF HIGH-STRENGTH 30 MIL POLYETHYLENE MEMBRANE WITH BONDED SEAMS AND TEXTURED SURFACE OR FILTER FABRIC WITH APPROVED ON-SITE LOW PERMEABILITY MATERIAL.

4. BOTTOM OF BASIN SHALL BE SEEDED WITH A CONSERVATION TYPE SEED MIX AND MULCHED.

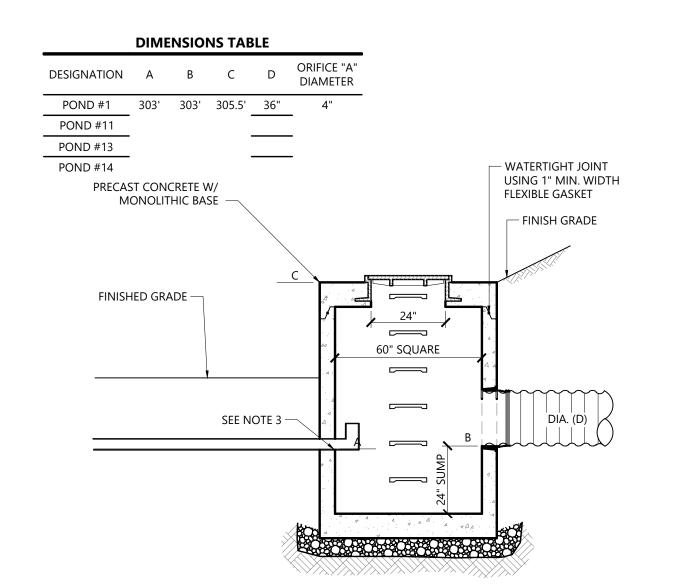
5. PERFORATED UNDERDRAIN PIPE SHALL BE LAID AS SHOWN IN PLAN VIEW, NO GREATER THAN 15' ON CENTER, TO DRAIN THE ENTIRE FILTER AREA.





Vegetated Soil Filter (VSF) Detail N.T.S.

Source: VHB



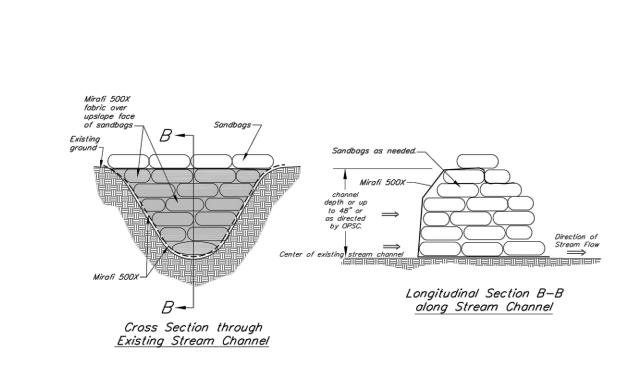
Source: VHB

LD_161

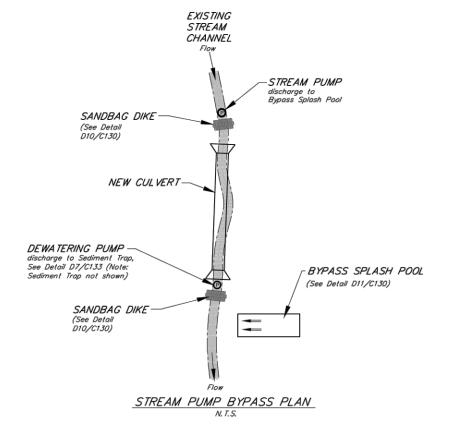


2. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER 3. MANHOLE OPENING SHALL BE SET IN STRUCTURE COVER AS ALIGNED WITH LADDER ACCESS.



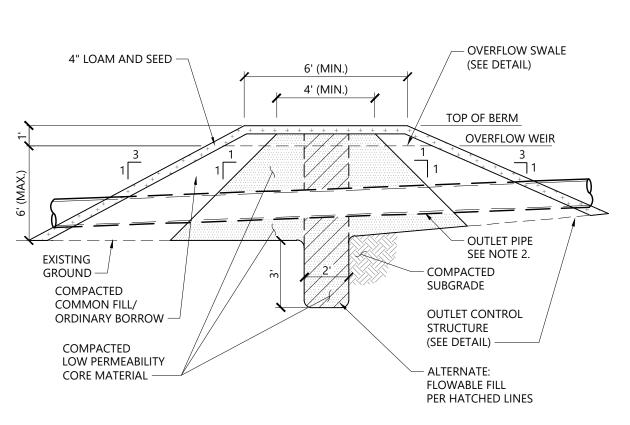


Stream Chan	nel Sandbag Dike Detail	EV-
NTS.	Source: VHB	<u> </u>



- STREAM PUMP BYPASS NOTES: 1. When excavation work is performed in a stream channel with an active stream flow, the stream flow shall be collected and pumped downstream from the work area in accordance with the Stream Culvert Installation Procedure Plan, notes, and details. A sandbag dike shall be installed in the stream channel on the uphill side of the work area. The flow collected above the sandbag dike shall be pumped to a splash pool on the downhill side of the work area. The splash pool shall be located at a location approved by the OSPC and/or the EPSC specialist such that the flow returning from the splash pool to the stream channel flow through rock places on fabric.
- 2. The Contractor shall have a pre-construction meeting with the EPSC Specialist and the OSPC to review the Erosion Prevention and Sediment Control measures and procedures to be employed for the work in the stream bed and the planned de-watering procedures. This meeting shall occur at least 2 days prior to the stream culvert installation.
- 3. Whenever practical, work within a stream bed shall be done during low flow conditions. The Contractor shall confirm the work schedule with the OPSC at least 48 hours prior to the work. New culvert, riprap at outfalls and channel lining (if required) shall be completed in one day. If work can not be completed in one day, the stream bypass shall be manned overnight.
- 4. Contractor shall have all equipment onsite the day before construction, including a backup pump with a capacity of 2 times the estimated flow. Sediment trap(s) for trench de-watering shall be construction the day before. Install sandbag dikes at upstream and downstream ends of proposed culverts. Install pumps at upstream side of dikes. Pump capacity shall be 2 times estimated flow. Keep suction end of pump piping 12" off bottom of the stream, where possible.
- 6. Use a separate de—watering pump for pumping out sediment laden water in excavation for culvert. Pump all sediment laden water into sediment bag or trap. Frequently clean out sediment trap during construction.

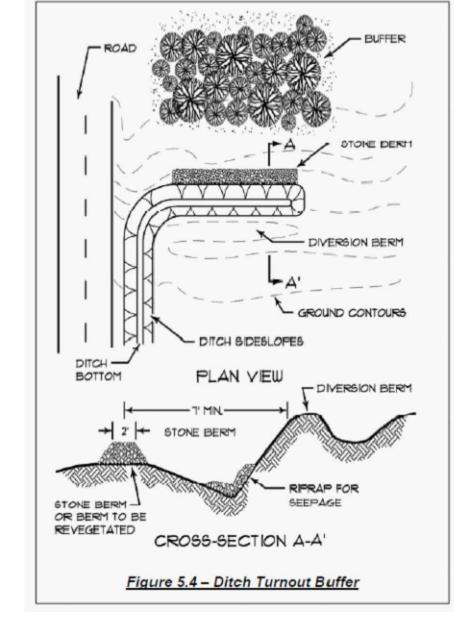
Stream Culver	t Installation Procedure	EV-0'
N.T.S.	Source: VHB	LD.



- 1. LOW PERMEABILITY CORE MATERIAL IS CONTINUOUS FOR THE FULL LENGTH OF THE EMBANKMENT.
- 2. WHERE PIPES PENETRATE THE LOW PERMEABILITY CORE, PIPE SHALL BE
- BEDDED IN THE LOW PERMEABILITY CORE MATERIAL. 3. THE BERM SECTION IS SUBJECT TO CHANGE AND WILL BE BASED ON THE

RESULTS OF FURTHER GEOTECHNICAL INVESTIGATIONS.

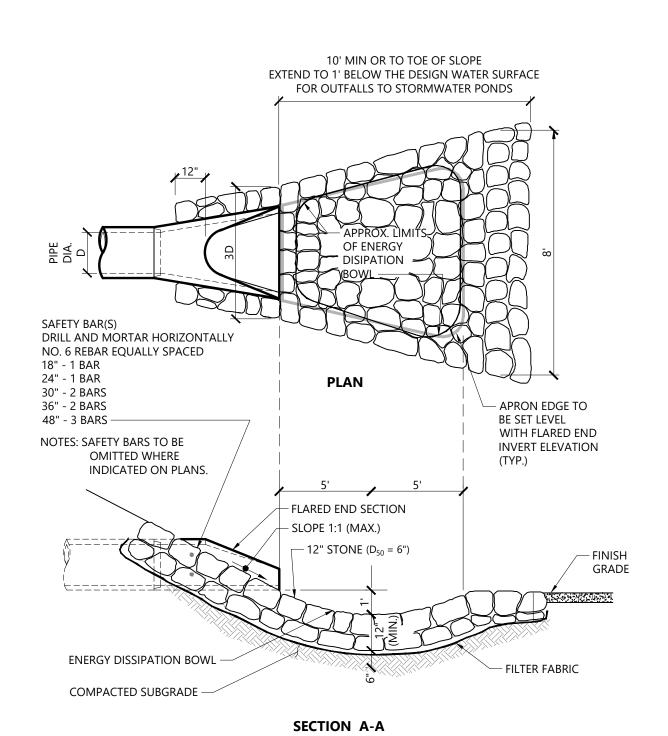
Detention Bas	sin Berm Section	1/16
N.T.S.	Source: VHB	LD_160



 <u>Stone Berm Specifications:</u> The stone berm to which the ditch turn-out delivers the runoff must be at least 20 feet in length and must be constructed along the contour. It must be at least one- foot high and two feet across the top with 2:1 side slopes. . Stone Size: The stone must be coarse enough that it will not clog with sediment. Stone for

stone bermed level lip spreaders must consist of sound durable rock that will not disintegrate by exposure to water or weather. Fieldstone, rough quarried stone, blasted ledge rock or tailings may be used. The rock must be well graded with a median size of approximately 3 inches and a maximum size of 6 inches. See Table 5.4 above.

Ditch Turnout Buffer N.T.S. Source: MDEP







500 Southborough Drive

South Portland, ME 04106

Suite 105B

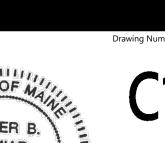
207.889.3150

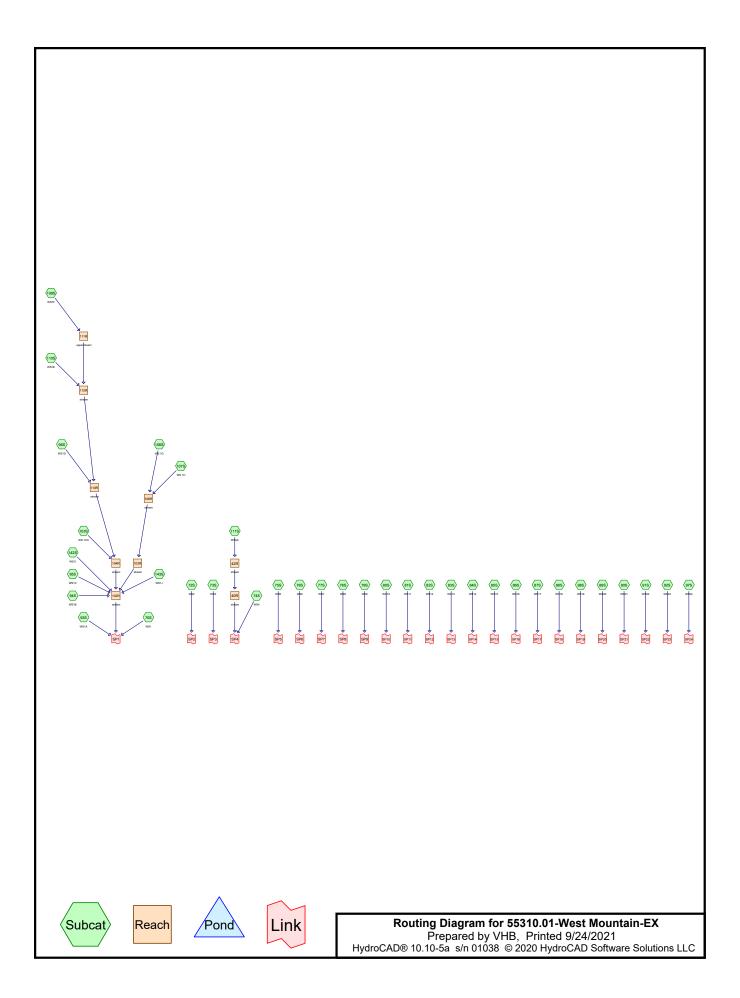
5092 Access Road Carrabassett Valley, ME 04947

September 23, 2021 Review

Not For Construction

Stormwater Details





Printed 9/24/2021 Page 2

Rainfall Events Listing (selected events)

Event#	Event	Storm Type	Curve	Mode	Duration	B/B	Depth	AMC
	Name				(hours)		(inches)	
1	1-Year	Type II 24-hr		Default	24.00	1	2.00	2
2	2-Year	Type II 24-hr		Default	24.00	1	2.40	2
3	10-Year	Type II 24-hr		Default	24.00	1	3.40	2
4	25-Year	Type II 24-hr		Default	24.00	1	4.20	2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
195.470	70	Existing Woods, Good, HSG C (74S, 76S, 77S, 79S, 81S, 82S, 83S, 84S, 85S, 87S, 88S, 89S, 90S, 91S, 92S, 96S, 97S, 98S, 106S, 107S, 108S, 110S, 111S, 142S, 143S)
286.138	77	Existing Woods, Good, HSG D (70S, 72S, 73S, 74S, 75S, 76S, 77S, 78S, 79S, 80S, 81S, 82S, 83S, 84S, 85S, 86S, 87S, 88S, 89S, 90S, 91S, 92S, 93S, 94S, 95S, 96S, 97S, 98S, 103S, 106S, 107S, 108S, 110S, 111S, 142S, 143S)
6.147	98	Existing impervious, HSG C (89S, 96S, 108S, 110S)
12.874	98	Existing impervious, HSG D (70S, 72S, 73S, 74S, 75S, 76S, 77S, 78S, 79S, 80S, 81S, 82S, 83S, 84S, 85S, 86S, 87S, 88S, 89S, 90S, 91S, 92S, 94S, 95S, 96S, 97S, 98S, 103S, 106S, 108S, 110S, 142S, 143S)
55.507	71	Existing meadow, non-grazed, HSG C (74S, 76S, 77S, 79S, 81S, 82S, 83S, 84S, 85S, 87S, 88S, 89S, 90S, 91S, 92S, 96S, 97S, 98S, 106S, 107S, 108S, 110S, 111S, 143S)
73.056	78	Existing meadow, non-grazed, HSG D (70S, 72S, 73S, 74S, 75S, 76S, 77S, 78S, 79S, 80S, 81S, 82S, 83S, 84S, 85S, 86S, 87S, 88S, 89S, 90S, 91S, 92S, 93S, 94S, 95S, 96S, 97S, 98S, 103S, 106S, 107S, 108S, 110S, 111S, 143S)
629.192	75	TOTAL AREA

Prepared by VHB HydroCAD® 10.10-5a s/n 01038 © 2020 HydroCAD Software Solutions LLC

Page 4

Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment70S: WS1	Runoff Area=3.816 ac 0.50% Impervious Runoff Depth=0.45" Flow Length=1,200' Tc=20.2 min CN=77 Runoff=1.61 cfs 0.143 af
Subcatchment72S: WS2	Runoff Area=4.825 ac 1.45% Impervious Runoff Depth=0.45" Flow Length=1,847' Tc=44.0 min CN=77 Runoff=1.17 cfs 0.180 af
Subcatchment73S: WS3	Runoff Area=1.513 ac 4.49% Impervious Runoff Depth=0.48" Flow Length=681' Tc=18.2 min CN=78 Runoff=0.75 cfs 0.061 af
Subcatchment74S: WS4	Runoff Area=20.325 ac 1.41% Impervious Runoff Depth=0.41" Flow Length=3,739' Tc=18.0 min CN=76 Runoff=8.21 cfs 0.701 af
Subcatchment75S: WS5	Runoff Area=3.053 ac 0.39% Impervious Runoff Depth=0.45" Flow Length=1,271' Tc=33.9 min CN=77 Runoff=0.89 cfs 0.114 af
Subcatchment76S: WS6	Runoff Area=29.113 ac 0.99% Impervious Runoff Depth=0.41" Flow Length=4,403' Tc=38.7 min CN=76 Runoff=6.92 cfs 1.004 af
Subcatchment77S: WS7	Runoff Area=26.547 ac 0.94% Impervious Runoff Depth=0.41" Flow Length=4,636' Tc=49.7 min CN=76 Runoff=5.26 cfs 0.915 af
Subcatchment78S: WS8	Runoff Area=0.343 ac 19.24% Impervious Runoff Depth=0.60" Flow Length=327' Tc=1.4 min CN=81 Runoff=0.40 cfs 0.017 af
Subcatchment79S: WS9	Runoff Area=8.117 ac 2.27% Impervious Runoff Depth=0.38" Flow Length=2,783' Tc=50.5 min CN=75 Runoff=1.41 cfs 0.258 af
Subcatchment80S: WS10	Runoff Area=0.758 ac 3.56% Impervious Runoff Depth=0.48" Flow Length=424' Tc=14.8 min CN=78 Runoff=0.43 cfs 0.031 af
Subcatchment81S: WS11	Runoff Area=16.815 ac 1.46% Impervious Runoff Depth=0.38" Flow Length=4,402' Tc=80.4 min CN=75 Runoff=2.08 cfs 0.534 af
Subcatchment82S: WS12	Runoff Area=9.755 ac 2.26% Impervious Runoff Depth=0.38" Flow Length=2,300' Tc=34.7 min CN=75 Runoff=2.22 cfs 0.310 af
Subcatchment83S: WS13	Runoff Area=22.285 ac 1.05% Impervious Runoff Depth=0.32" Flow Length=6,015' Tc=100.4 min CN=73 Runoff=1.86 cfs 0.595 af
Subcatchment84S: WS14	Runoff Area=3.587 ac 5.07% Impervious Runoff Depth=0.38" Flow Length=1,401' Tc=32.5 min CN=75 Runoff=0.85 cfs 0.114 af
Subcatchment85S: WS15	Runoff Area=37.339 ac 0.18% Impervious Runoff Depth=0.32" Flow Length=6,278' Tc=92.0 min CN=73 Runoff=3.31 cfs 0.997 af
Subcatchment86S: WS16	Runoff Area=0.416 ac 18.75% Impervious Runoff Depth=0.60" Flow Length=267' Tc=11.9 min CN=81 Runoff=0.34 cfs 0.021 af

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Subcatchment87S: WS17	Runoff Area=7.386 ac 2.63% Impervious Runoff Depth=0.32" Flow Length=2,290' Tc=37.1 min CN=73 Runoff=1.23 cfs 0.197 af
Subcatchment88S: WS18	Runoff Area=1.599 ac 1.31% Impervious Runoff Depth=0.29" Flow Length=978' Tc=26.1 min CN=72 Runoff=0.29 cfs 0.039 af
Subcatchment89S: WS20	Runoff Area=40.004 ac 3.65% Impervious Runoff Depth=0.35" Flow Length=4,364' Tc=55.5 min CN=74 Runoff=5.73 cfs 1.166 af
Subcatchment90S: WS21	Runoff Area=6.228 ac 0.32% Impervious Runoff Depth=0.32" Flow Length=1,797' Tc=39.9 min CN=73 Runoff=0.98 cfs 0.166 af
Subcatchment91S: WS22	Runoff Area=7.516 ac 0.98% Impervious Runoff Depth=0.45" Flow Length=2,111' Tc=47.3 min CN=77 Runoff=1.73 cfs 0.281 af
Subcatchment92S: WS23	Runoff Area=2.642 ac 1.48% Impervious Runoff Depth=0.41" Flow Length=1,122' Tc=28.3 min CN=76 Runoff=0.79 cfs 0.091 af
Subcatchment93S: WS1A	Runoff Area=3.076 ac 0.00% Impervious Runoff Depth=0.45" Flow Length=821' Tc=28.5 min CN=77 Runoff=1.02 cfs 0.115 af
Subcatchment94S: WS1B	Runoff Area=8.471 ac 5.02% Impervious Runoff Depth=0.48" Flow Length=2,480' Tc=14.1 min CN=78 Runoff=4.88 cfs 0.342 af
Subcatchment95S: WS1C	Runoff Area=17.349 ac 18.91% Impervious Runoff Depth=0.60" Flow Length=3,667' Tc=47.4 min CN=81 Runoff=5.99 cfs 0.874 af
Subcatchment96S: WS1D	Runoff Area=79.398 ac 8.16% Impervious Runoff Depth=0.38" Flow Length=6,450' Tc=43.6 min CN=75 Runoff=15.30 cfs 2.521 af
Subcatchment97S: WS24	Runoff Area=10.169 ac 4.49% Impervious Runoff Depth=0.48" Flow Length=2,477' Tc=51.1 min CN=78 Runoff=2.47 cfs 0.410 af
Subcatchment98S: WS19	Runoff Area=7.975 ac 0.10% Impervious Runoff Depth=0.29" Flow Length=2,264' Tc=47.0 min CN=72 Runoff=0.97 cfs 0.194 af
Subcatchment103S: WS 1CA	Runoff Area=7.535 ac 41.66% Impervious Runoff Depth=0.85" Flow Length=949' Tc=10.1 min CN=86 Runoff=9.62 cfs 0.533 af
Subcatchment106S: WS 1G	Runoff Area=33.788 ac 0.01% Impervious Runoff Depth=0.35" Flow Length=4,645' Tc=34.6 min CN=74 Runoff=6.78 cfs 0.985 af
Subcatchment107S: WS 1H	Runoff Area=59.491 ac 0.00% Impervious Runoff Depth=0.35" Flow Length=4,804' Tc=55.9 min CN=74 Runoff=8.44 cfs 1.734 af
Subcatchment108S: WS1F	Runoff Area=40.294 ac 0.90% Impervious Runoff Depth=0.35" Flow Length=4,191' Tc=48.6 min CN=74 Runoff=6.35 cfs 1.175 af
Subcatchment110S: WS1E	Runoff Area=31.901 ac 1.29% Impervious Runoff Depth=0.32" Flow Length=4,125' Tc=55.4 min CN=73 Runoff=3.99 cfs 0.851 af

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Subcatchment111S: WS4A	Runoff Area=38.315 ac 0.00% Impervious Runoff Depth=0.38"
	Flow Length=3,929' Tc=63.9 min CN=75 Runoff=5.59 cfs 1.216 af
Subcatchment142S: WS1I	Runoff Area=15 102 ac 0.81% Impervious Runoff Depth=0.41"

Flow Length=3,069' Tc=31.2 min CN=76 Runoff=4.20 cfs 0.521 af

Subcatchment143S: WS1J Runoff Area=22.346 ac 1.03% Impervious Runoff Depth=0.41" Flow Length=3,101' Tc=25.4 min CN=76 Runoff=7.16 cfs 0.770 af

Reach 40R: streamAvg. Flow Depth=0.25' Max Vel=3.54 fps Inflow=5.45 cfs 1.216 af n=0.050 L=770.0' S=0.1013 '/' Capacity=186.92 cfs Outflow=5.43 cfs 1.216 af

Reach 42R: streamAvg. Flow Depth=0.24' Max Vel=4.38 fps Inflow=5.59 cfs 1.216 af n=0.050 L=2,440.0' S=0.1639 '/' Capacity=60.47 cfs Outflow=5.45 cfs 1.216 af

Reach 102R: streamAvg. Flow Depth=0.71' Max Vel=5.27 fps Inflow=47.96 cfs 10.306 af n=0.050 L=890.0' S=0.0562 '/' Capacity=883.89 cfs Outflow=47.80 cfs 10.306 af

Reach 103R: streamAvg. Flow Depth=0.38' Max Vel=4.17 fps Inflow=13.21 cfs 2.719 af n=0.050 L=275.0' S=0.0800'/' Capacity=440.61 cfs Outflow=13.18 cfs 2.719 af

Reach 104R: streamAvg. Flow Depth=0.51' Max Vel=5.63 fps Inflow=24.50 cfs 5.080 af n=0.050 L=495.0' S=0.1010 '/' Capacity=495.10 cfs Outflow=24.43 cfs 5.080 af

Reach 108R: streamAvg. Flow Depth=0.32' Max Vel=5.02 fps Inflow=13.50 cfs 2.719 af n=0.050 L=1,968.0' S=0.1443 '/' Capacity=291.19 cfs Outflow=13.21 cfs 2.719 af

Reach 110R: streamAvg. Flow Depth=0.53' Max Vel=6.80 fps Inflow=23.73 cfs 4.547 af n=0.050 L=1,175.0' S=0.1464 '/' Capacity=465.00 cfs Outflow=23.62 cfs 4.547 af

Reach 111R: upperstreamAvg. Flow Depth=0.34' Max Vel=5.52 fps Inflow=6.35 cfs 1.175 af n=0.050 L=686.0' S=0.1808 '/' Capacity=139.11 cfs Outflow=6.32 cfs 1.175 af

Reach 112R: streamAvg. Flow Depth=0.34' Max Vel=5.65 fps Inflow=10.29 cfs 2.026 af n=0.050 L=1,230.0' S=0.1772 '/' Capacity=210.11 cfs Outflow=10.21 cfs 2.026 af

Link SP1:Inflow=48.51 cfs 10.564 af
Primary=48.51 cfs 10.564 af

Link SP10: Inflow=0.43 cfs 0.031 af Primary=0.43 cfs 0.031 af

Link SP11:Inflow=2.08 cfs 0.534 af
Primary=2.08 cfs 0.534 af

Link SP12:Inflow=2.22 cfs 0.310 af
Primary=2.22 cfs 0.310 af

Link SP13: Inflow=1.86 cfs 0.595 af Primary=1.86 cfs 0.595 af

Primary=6.92 cfs 1.004 af

Inflow=5.26 cfs 0.915 af Primary=5.26 cfs 0.915 af

55310.01-West Mountain-EX Type II 24-hr 1-Year Rainfall=2.00" Printed 9/24/2021 Prepared by VHB HydroCAD® 10.10-5a s/n 01038 © 2020 HydroCAD Software Solutions LLC Page 7 Inflow=0.85 cfs 0.114 af Link SP14: Primary=0.85 cfs 0.114 af Link SP15: Inflow=3.31 cfs 0.997 af Primary=3.31 cfs 0.997 af Link SP16: Inflow=0.34 cfs 0.021 af Primary=0.34 cfs 0.021 af Link SP17: Inflow=1.23 cfs 0.197 af Primary=1.23 cfs 0.197 af Inflow=0.29 cfs 0.039 af Link SP18: Primary=0.29 cfs 0.039 af Link SP19: Inflow=0.97 cfs 0.194 af Primary=0.97 cfs 0.194 af Link SP2: Inflow=1.17 cfs 0.180 af Primary=1.17 cfs 0.180 af Link SP20: Inflow=5.73 cfs 1.166 af Primary=5.73 cfs 1.166 af Inflow=0.98 cfs 0.166 af Link SP21: Primary=0.98 cfs 0.166 af Inflow=1.73 cfs 0.281 af Link SP22: Primary=1.73 cfs 0.281 af Link SP23: Inflow=0.79 cfs 0.091 af Primary=0.79 cfs 0.091 af Link SP24: Inflow=2.47 cfs 0.410 af Primary=2.47 cfs 0.410 af Link SP3: Inflow=0.75 cfs 0.061 af Primary=0.75 cfs 0.061 af Link SP4: Inflow=8.21 cfs 1.917 af Primary=8.21 cfs 1.917 af Link SP5: Inflow=0.89 cfs 0.114 af Primary=0.89 cfs 0.114 af Link SP6: Inflow=6.92 cfs 1.004 af

Link SP7:

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Link SP8: Inflow=0.40 cfs 0.017 af

Primary=0.40 cfs 0.017 af

Link SP9: Inflow=1.41 cfs 0.258 af

Primary=1.41 cfs 0.258 af

Total Runoff Area = 629.192 ac Runoff Volume = 20.175 af Average Runoff Depth = 0.38" 96.98% Pervious = 610.171 ac 3.02% Impervious = 19.021 ac

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Summary for Subcatchment 70S: WS1

Runoff = 1.61 cfs @ 12.16 hrs, Volume= 0.143 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 1-Year Rainfall=2.00"

_	Area	(ac) C	N Des	cription		
0.019 98 Existing impervious, HSG D					vious, HSG	D
0.032 78 Existing meadow, non-graz					ow, non-gra	azed, HSG D
3.765 77 Existing Woods, Good, HSG D						SG D
	3.816 77 Weighted Average					
	3.	797	99.5	0% Pervio	us Area	
	0.	019	0.50	% Impervi	ous Area	
	Tc	Length	Slope	Velocity	Capacity	Description
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	10.9	38	0.0900	0.06		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	8.0	358	0.0900	0.75		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.5	299	0.0600	9.68	232.28	Trap/Vee/Rect Channel Flow,
						Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00'
	0.0	505	0.0000	40.45	0.45.05	n= 0.050 Mountain streams w/large boulders
	8.0	505	0.0600	10.15	345.05	Trap/Vee/Rect Channel Flow,
						Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'
_						n= 0.050 Mountain streams w/large boulders
	20.2	1 200	Total			

20.2 1,200 Total

Summary for Subcatchment 72S: WS2

Runoff = 1.17 cfs @ 12.48 hrs, Volume= 0.180 af, Depth= 0.45"

 Area (ac)	CN	Description						
0.070	98	Existing impervious, HSG D						
0.750	78	Existing meadow, non-grazed, HSG D						
 4.005	77	Existing Woods, Good, HSG D						
4.825	77	Weighted Average						
4.755		98.55% Pervious Area						
0.070		1.45% Impervious Area						

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	49	0.1600	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
5.8	349	0.1600	1.00		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.5	156	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.6	279	0.1100	0.83		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.4	154	0.0900	0.75		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
7.5	339	0.0900	0.75		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
8.3	374	0.0900	0.75		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.3	147	0.0300	8.52	25.56	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022 Earth, clean & straight
44.0	1,847	Total			

Summary for Subcatchment 73S: WS3

Runoff = 0.75 cfs @ 12.13 hrs, Volume= 0.061 af, Depth= 0.48"

Area	(ac) C	N Des	cription						
0.	0.068 98 Existing impervious, HSG D								
0.254 78 Existing meadow, non-grazed, HSG D									
1.	1.191 77 Existing Woods, Good, HSG D								
	1.513 78 Weighted Average								
	.445		1% Pervio						
0.	.068	4.49	% Impervi	ous Area					
To	Longth	Slope	Volocity	Canacity	Description				
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description				
11.0	36	0.0800	0.05	(013)	Sheet Flow,				
11.0	30	0.0000	0.03		Woods: Dense underbrush n= 0.800 P2= 2.40"				
1.4	60	0.0800	0.71		Shallow Concentrated Flow,				
•••		0.0000	0		Forest w/Heavy Litter Kv= 2.5 fps				
1.6	97	0.1600	1.00		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
3.8	169	0.0900	0.75		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
0.4	319	0.0700	13.01	39.04	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.022 Earth, clean & straight				
18.2	681	Total							

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Summary for Subcatchment 74S: WS4

Runoff = 8.21 cfs @ 12.13 hrs, Volume= 0.701 af, Depth= 0.41"

Area	(ac) C	N Des	cription						
0.	287 9	8 Exis	ting imper	vious, HSG	D				
0.	739 7	'1 Exis	ting mead	ow, non-gra	azed, HSG C				
1.	1.095 78 Existing meadow, non-grazed, HSG D								
2.883 70 Existing Woods, Good, HSG C									
15.	15.321 77 Existing Woods, Good, HSG D								
			ghted Avei						
	038		9% Pervio						
0.	287	1.41	% Impervi	ous Area					
_		0.1							
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
10.8	56	0.2000	0.09		Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
2.4	164	0.2000	1.12		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
0.5	417	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.7	544	0.1800	13.88	138.82	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
1.0	711	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.5	404	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/ Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.4	338	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/ Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.6	432	0.1200	11.33	113.34	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.8	424	0.0800	9.25	92.55	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.3	249	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,				
0.0	0	300	(10	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
18.0	3,739	Total			0.000 mountain on our no margo bouldoro				
10.0	0,700	iotai							

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Summary for Subcatchment 75S: WS5

Runoff = 0.89 cfs @ 12.34 hrs, Volume= 0.114 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 1-Year Rainfall=2.00"

Area	(ac) C	N Desc	cription						
0.	0.012 98 Existing impervious, HSG D								
0.	0.032 78 Existing meadow, non-grazed, HSG D								
3.	3.009 77 Existing Woods, Good, HSG D								
3.	053 7	7 Weig	ghted Aver	age					
3.	041	99.6	1% Pervio	us Area					
0.	012	0.39	% Impervi	ous Area					
Tc	Length	Slope	Velocity		Description				
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)					
11.0	36	0.0800	0.05		Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
8.0	35	0.0800	0.71		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
2.5	169	0.2000	1.12		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
5.7	271	0.1000	0.79		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
4.3	240	0.1400	0.94		Shallow Concentrated Flow,				
0.4	0.45	0.0000	0.74		Forest w/Heavy Litter Kv= 2.5 fps				
8.1	345	0.0800	0.71		Shallow Concentrated Flow,				
4.4	0.7	0.4700	4.00		Forest w/Heavy Litter Kv= 2.5 fps				
1.4	87	0.1700	1.03		Shallow Concentrated Flow,				
0.1	00	0.1400	10.40	EE 01	Forest w/Heavy Litter Kv= 2.5 fps				
0.1	88	0.1400	18.40	55.21	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight				
22.0	4 074	Tatal			11- 0.022 Laitti, Geatt & Straight				
33.9	1,271	Total							

Summary for Subcatchment 76S: WS6

Runoff = 6.92 cfs @ 12.42 hrs, Volume= 1.004 af, Depth= 0.41"

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Area	Area (ac) CN Description									
0.	0.537 71 Existing meadow, non-grazed, HSG C									
3.	855 7	0 Exis	ting Wood	s, Good, H	SG C					
				vious, HSG						
					azed, HSG D					
21.	21.062 77 Existing Woods, Good, HSG D									
	29.113 76 Weighted Average									
	826		1% Pervio							
0.	287	0.99	% Impervi	ous Area						
_										
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.8	50	0.1600	0.08		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
0.2	10	0.1600	1.00		Shallow Concentrated Flow,					
	–				Forest w/Heavy Litter Kv= 2.5 fps					
2.0	145	0.2300	1.20		Shallow Concentrated Flow,					
0.7	000	0.4400	0.00		Forest w/Heavy Litter Kv= 2.5 fps					
6.7	333	0.1100	0.83		Shallow Concentrated Flow,					
0.0	444	0.0000	0.75		Forest w/Heavy Litter Kv= 2.5 fps					
9.8	441	0.0900	0.75		Shallow Concentrated Flow,					
4.0	200	0.4600	1.00		Forest w/Heavy Litter Kv= 2.5 fps					
4.8	290	0.1600	1.00		Shallow Concentrated Flow,					
0.3	290	0.2200	15.35	153.47	Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow,					
0.3	290	0.2200	15.55	155.47	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'					
					n= 0.050 Mountain streams w/large boulders					
0.8	681	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,					
0.0	001	0.1000	14.20	142.02	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'					
					n= 0.050 Mountain streams w/large boulders					
0.5	418	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,					
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'					
					n= 0.050 Mountain streams w/large boulders					
1.0	729	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,					
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'					
					n= 0.050 Mountain streams w/large boulders					
0.7	465	0.1300	11.80	117.97	Trap/Vee/Rect Channel Flow,					
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'					
					n= 0.050 Mountain streams w/large boulders					
1.0	466	0.0600	8.01	80.15	Trap/Vee/Rect Channel Flow,					
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'					
<u>.</u> .					n= 0.050 Mountain streams w/large boulders					
0.1	85	0.0500	11.00	32.99	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
38.7	4,403	Total								

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Summary for Subcatchment 77S: WS7

Runoff = 5.26 cfs @ 12.57 hrs, Volume= 0.915 af, Depth= 0.41"

 Area (ac)	CN	Description					
0.688	71	Existing meadow, non-grazed, HSG C					
5.100	70	Existing Woods, Good, HSG C					
0.250	98	Existing impervious, HSG D					
3.025	78	Existing meadow, non-grazed, HSG D					
 17.484	77	Existing Woods, Good, HSG D					
26.547	76	Weighted Average					
26.297		99.06% Pervious Area					
0.250		0.94% Impervious Area					

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	64	0.2700	0.10	, ,	Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
4.0	312	0.2700	1.30		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.8	360	0.1700	1.03		Shallow Concentrated Flow,
40.0	-0-				Forest w/Heavy Litter Kv= 2.5 fps
12.6	565	0.0900	0.75		Shallow Concentrated Flow,
44.0	400	0.0000	0.04		Forest w/Heavy Litter Kv= 2.5 fps
11.0	406	0.0600	0.61		Shallow Concentrated Flow,
1.0	105	0.4400	1.60		Forest w/Heavy Litter Kv= 2.5 fps
1.9	185	0.4100	1.60		Shallow Concentrated Flow,
0.3	224	0.3000	17.92	179.21	Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow,
0.3	324	0.3000	17.92	179.21	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.3	279	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,
0.0	210	0.1000	14.20	142.02	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.4	330	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.3	224	0.1100	10.85	108.52	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.2	139	0.1200	11.33	113.34	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.4	287	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.5	204	0.4400	40.04	400.40	n= 0.050 Mountain streams w/large boulders
0.5	361	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.6	117	0.1100	10.85	108.52	Trap/Vee/Rect Channel Flow,
0.0	417	0.1100	10.05	100.52	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.6	253	0.0500	7.32	73.16	Trap/Vee/Rect Channel Flow,
0.0	200	0.0000	1.02	70.10	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.1	130	0.0800	21.03	210.33	Trap/Vee/Rect Channel Flow,
-					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.022 Earth, clean & straight
49.7	4,636	Total			

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Summary for Subcatchment 78S: WS8

Runoff = 0.40 cfs @ 11.92 hrs, Volume= 0.017 af, Depth= 0.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 1-Year Rainfall=2.00"

Area	(ac) C	N Des	cription					
0.066 98 Existing impervious, HSG D								
0.	047 7	azed, HSG D						
0.	230 7	77 Exis	ting Wood	s, Good, H	SG D			
0.	343 8	31 Weig	ghted Aver	age				
0.	277	80.7	6% Pervio	us Area				
0.	066	19.2	4% Imper	∕ious Area				
_				_				
Tc	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
8.0	40	0.1000	0.79		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
0.2	11	0.1000	0.79		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
0.4	276	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,			
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
					n= 0.022 Earth, clean & straight			
1.4	327	Total						

Summary for Subcatchment 79S: WS9

Runoff = 1.41 cfs @ 12.60 hrs, Volume= 0.258 af, Depth= 0.38"

 Area (ac)	CN	Description						
 0.078	71	Existing meadow, non-grazed, HSG C						
2.614	70	Existing Woods, Good, HSG C						
0.184	98	Existing impervious, HSG D						
0.343	78	Existing meadow, non-grazed, HSG D						
 4.898	77	Existing Woods, Good, HSG D						
 8.117	75	Weighted Average						
7.933		97.73% Pervious Area						
0.184		2.27% Impervious Area						

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<u>(n</u>	Tc nin)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1	0.5	27	0.0500	0.04		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	8.4	283	0.0500	0.56		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	7.3	583	0.2800	1.32		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	6.0	403	0.2000	1.12		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	9.2	554	0.1600	1.00		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	2.2	172	0.2700	1.30		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	6.5	350	0.1300	0.90		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.4	411	0.1000	15.55	46.66	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022 Earth, clean & straight
5	0.5	2,783	Total			

Summary for Subcatchment 80S: WS10

Runoff = 0.43 cfs @ 12.09 hrs, Volume= 0.031 af, Depth= 0.48"

Area	(ac) C	N Des	cription				
0.	027 9	8 Exis	ting imper	vious, HSG	D		
0.044 78 Existing meadow, non-grazed, HSG D							
0.	687 7	77 Exis	ting Wood	s, Good, H	SG D		
0.	758 7	'8 Wei	hted Aver	age			
0.	731	•	, 4% Pervio	0			
0.	027	3.56	% Impervi	ous Area			
			•				
Tc	Length	Slope	Velocity	Capacity	Description		
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)			
10.8	70	0.3100	0.11		Sheet Flow,		
					Woods: Dense underbrush n= 0.800 P2= 2.40"		
8.0	65	0.3100	1.39		Shallow Concentrated Flow,		
					Forest w/Heavy Litter Kv= 2.5 fps		
3.1	187	0.1600	1.00		Shallow Concentrated Flow,		
					Forest w/Heavy Litter Kv= 2.5 fps		
0.1	102	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow,		
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'		
					n= 0.022 Earth, clean & straight		
14.8	424	Total					

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Summary for Subcatchment 81S: WS11

Runoff = 2.08 cfs @ 13.02 hrs, Volume= 0.534 af, Depth= 0.38"

_	Area	(ac) C	N Des	cription					
	0	245 9			vious, HSG				
						azed, HSG C			
						azed, HSG D			
					s, Good, H				
_					s, Good, H	SG D			
	16.815 75 Weighted Average								
		570		4% Pervio					
	0.245 1.46% Impervious Area								
	т.	1	Ol	\	0	Description			
	Tc	Length	Slope	Velocity	Capacity	Description			
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
	10.8	65	0.2700	0.10		Sheet Flow,			
	4 -	000	0.0700	4.00		Woods: Dense underbrush n= 0.800 P2= 2.40"			
	4.7	366	0.2700	1.30		Shallow Concentrated Flow,			
	0.4	507	0.4500	0.07		Forest w/Heavy Litter Kv= 2.5 fps			
	9.1	527	0.1500	0.97		Shallow Concentrated Flow,			
	5.5	398	0.2300	1.20		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,			
	5.5	390	0.2300	1.20		Forest w/Heavy Litter Kv= 2.5 fps			
	17.0	763	0.0900	0.75		Shallow Concentrated Flow,			
	17.0	700	0.0000	0.70		Forest w/Heavy Litter Kv= 2.5 fps			
	3.6	211	0.1500	0.97		Shallow Concentrated Flow,			
	0.0			0.0.		Forest w/Heavy Litter Kv= 2.5 fps			
	5.2	377	0.2300	1.20		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	8.2	506	0.1700	1.03		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	5.2	368	0.2200	1.17		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	4.9	220	0.0900	0.75		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	6.1	401	0.1900	1.09		Shallow Concentrated Flow,			
	0.4	000	0.0000	00.04	000.00	Forest w/Heavy Litter Kv= 2.5 fps			
	0.1	200	0.0900	22.31	223.09	Trap/Vee/Rect Channel Flow,			
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'			
_		4 400				n= 0.022 Earth, clean & straight			
	80.4	4,402	Total						

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Summary for Subcatchment 82S: WS12

Runoff = 2.22 cfs @ 12.37 hrs, Volume= 0.310 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 1-Year Rainfall=2.00"

Area	(ac) C	N Des	cription						
0.280 71 Existing meadow, non-grazed, HSG C									
3.976 70 Existing Woods, Good, HSG C									
0.	0.220 98 Existing impervious, HSG D								
	1.035 78 Existing meadow, non-grazed, HSG D								
4.244 77 Existing Woods, Good, HSG D									
9.755 75 Weighted Average									
9.535 97.74% Pervious Area									
0.220 2.26% Impervious Area									
_		0.1							
Tc	Length	Slope	Velocity	Capacity	Description				
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)					
10.7	41	0.1100	0.06		Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
6.4	320	0.1100	0.83		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
8.0	562	0.2200	1.17		Shallow Concentrated Flow,				
4 7	000	0.4700	4.00		Forest w/Heavy Litter Kv= 2.5 fps				
4.7	290	0.1700	1.03		Shallow Concentrated Flow,				
3.8	201	0.2400	1.22		Forest w/Heavy Litter Kv= 2.5 fps				
3.0	281	0.2400	1.22		Shallow Concentrated Flow,				
0.3	261	0.1600	13.09	130.88	Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow,				
0.3	201	0.1000	13.09	130.00	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.4	284	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,				
0.4	204	0.1700	13.43	154.51	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.4	261	0.0500	11.00	32.99	Trap/Vee/Rect Channel Flow,				
0.4	201	0.0000	11.00	02.00	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.022 Earth, clean & straight				
34.7	2,300	Total			U.U.L. Listing of Garding of Garding Inc.				
0-1.7	2,000	· Otal							

Summary for Subcatchment 83S: WS13

Runoff = 1.86 cfs @ 13.38 hrs, Volume= 0.595 af, Depth= 0.32"

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Area	(ac) C	N Des	cription							
	4.203 71 Existing meadow, non-grazed, HSG C									
	9.072 70 Existing Woods, Good, HSG C									
	0.235 98 Existing impervious, HSG D									
	1.694 78 Existing meadow, non-grazed, HSG D									
	7.081 77 Existing Woods, Good, HSG D									
	22.285 73 Weighted Average									
22.050 98.95% Pervious Area										
0.235 1.05% Impervious Area										
Тс	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	·					
10.8	76	0.3700	0.12		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
5.9	537	0.3700	1.52		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
6.5	448	0.2100	1.15		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
9.2	645	0.2200	1.17		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
6.6	497	0.2500	1.25		Shallow Concentrated Flow,					
0.0	500	0.4500	0.07		Forest w/Heavy Litter Kv= 2.5 fps					
9.2	536	0.1500	0.97		Shallow Concentrated Flow,					
6.0	404	0.0000	4 47		Forest w/Heavy Litter Kv= 2.5 fps					
6.2	434	0.2200	1.17		Shallow Concentrated Flow,					
15.1	714	0.1000	0.79		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,					
15.1	7 14	0.1000	0.79		Forest w/Heavy Litter Kv= 2.5 fps					
10.2	649	0.1800	1.06		Shallow Concentrated Flow,					
10.2	040	0.1000	1.00		Forest w/Heavy Litter Kv= 2.5 fps					
9.9	645	0.1900	1.09		Shallow Concentrated Flow,					
0.0	0.0	0000	1.00		Forest w/Heavy Litter Kv= 2.5 fps					
4.5	307	0.2100	1.15		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
5.8	328	0.1400	0.94		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.5	199	0.0200	6.96	20.87	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
100.4	6,015	Total								

Summary for Subcatchment 84S: WS14

Runoff = 0.85 cfs @ 12.33 hrs, Volume= 0.114 af, Depth= 0.38"

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Area	(ac) C	N Desc	cription					
_	0.691 71 Existing meadow, non-grazed, HSG C							
0.	0.959 70 Existing Woods, Good, HSG C							
_	0.182 98 Existing impervious, HSG D							
					azed, HSG D			
				s, Good, H	SG D			
_			ghted Aver					
	.405		3% Pervio					
0.	.182	5.07	% Impervi	ous Area				
т.	Longth	Clana	\/alaait\/	Consoity	Description			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description			
10.8	45	0.1300	0.07	(615)	Shoot Flow			
10.0	43	0.1300	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.40"			
0.1	8	0.1300	0.90		Shallow Concentrated Flow,			
0.1	U	0.1000	0.50		Forest w/Heavy Litter Kv= 2.5 fps			
5.1	350	0.2100	1.15		Shallow Concentrated Flow,			
• • • • • • • • • • • • • • • • • • • •		0.2.00			Forest w/Heavy Litter Kv= 2.5 fps			
5.8	313	0.1300	0.90		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
4.2	294	0.2200	1.17		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
3.0	168	0.1400	0.94		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
3.4	163	0.1000	0.79		Shallow Concentrated Flow,			
0.4		0.0500	44.00	00.00	Forest w/Heavy Litter Kv= 2.5 fps			
0.1	60	0.0500	11.00	32.99	Trap/Vee/Rect Channel Flow,			
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
	4 40 4	T ()			n= 0.022 Earth, clean & straight			
32.5	1,401	Total						

Summary for Subcatchment 85S: WS15

Runoff = 3.31 cfs @ 13.22 hrs, Volume= 0.997 af, Depth= 0.32"

Area (ac)	CN	Description
8.870	71	Existing meadow, non-grazed, HSG C
16.898	70	Existing Woods, Good, HSG C
0.067	98	Existing impervious, HSG D
2.332	78	Existing meadow, non-grazed, HSG D
9.172	77	Existing Woods, Good, HSG D
37.339	73	Weighted Average
37.272		99.82% Pervious Area
0.067		0.18% Impervious Area

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	Тс	Length	Slope	Velocity	Capacity	Description
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	'
	10.8	72	0.3300	0.11		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	6.8	586	0.3300	1.44		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	7.9	673	0.3200	1.41		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	9.6	625	0.1900	1.09		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	8.9	664	0.2500	1.25		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	8.9	484	0.1300	0.90		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	10.7	700	0.1900	1.09		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	10.6	529	0.1100	0.83		Shallow Concentrated Flow,
	44.0	- 4 -	0.4700	4.00		Forest w/Heavy Litter Kv= 2.5 fps
	11.6	717	0.1700	1.03		Shallow Concentrated Flow,
	0.7	570	0.4700	40.40	404.04	Forest w/Heavy Litter Kv= 2.5 fps
	0.7	573	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	٥. ٦	000	0.4000	40.00	400.00	n= 0.050 Mountain streams w/large boulders
	0.5	386	0.1800	13.88	138.82	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	0.0	450	0.0000	4.40		n= 0.050 Mountain streams w/large boulders
	2.2	150	0.2000	1.12		Shallow Concentrated Flow,
	2.0	110	0.0000	0.74		Forest w/Heavy Litter Kv= 2.5 fps
	2.8	119	0.0800	0.71		Shallow Concentrated Flow,
_		0.070	T ()			Forest w/Heavy Litter Kv= 2.5 fps
	92.0	6,278	Total			

Summary for Subcatchment 86S: WS16

Runoff = 0.34 cfs @ 12.05 hrs, Volume= 0.021 af, Depth= 0.60"

 Area (ac)	CN	Description
0.078	98	Existing impervious, HSG D
0.048	78	Existing meadow, non-grazed, HSG D
 0.290	77	Existing Woods, Good, HSG D
 0.416	81	Weighted Average
0.338		81.25% Pervious Area
0.078		18.75% Impervious Area

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_	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	10.7	51	0.1700	0.08		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	1.0	63	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.2	153	0.0700	13.01	39.04	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_						n= 0.022 Earth, clean & straight
	11.9	267	Total			

Summary for Subcatchment 87S: WS17

Runoff = 1.23 cfs @ 12.42 hrs, Volume= 0.197 af, Depth= 0.32"

Area	(ac) C	N Desc	cription						
0.	194 9	8 Exis	ting imperv	vious, HSG	D				
1.	1.145 71 Existing meadow, non-grazed, HSG C								
0.	0.402 78 Existing meadow, non-grazed, HSG D								
				s, Good, H					
1.	1.738 77 Existing Woods, Good, HSG D								
			ghted Aver	•					
	192		7% Pervio						
0.	194	2.63	% Impervi	ous Area					
_		01		0 "	D 10				
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
10.6	44	0.1300	0.07		Sheet Flow,				
9.8	531	0.1300	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"				
9.0	331	0.1300	0.90		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps				
1.5	236	0.1500	2.71		Shallow Concentrated Flow,				
1.5	230	0.1300	2.7 1		Short Grass Pasture Kv= 7.0 fps				
5.8	372	0.1800	1.06		Shallow Concentrated Flow,				
0.0	012	0.1000	1.00		Forest w/Heavy Litter Kv= 2.5 fps				
4.7	290	0.1700	1.03		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
2.6	437	0.1600	2.80		Shallow Concentrated Flow,				
					Short Grass Pasture Kv= 7.0 fps				
1.8	142	0.2700	1.30		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
0.3	238	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
37.1	2,290	Total							

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Summary for Subcatchment 88S: WS18

Runoff = 0.29 cfs @ 12.26 hrs, Volume= 0.039 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 1-Year Rainfall=2.00"

Area	(ac) C	N Des	cription			
0.172 71 Existing meadow, non-grazed, HSG C						
1	.110	70 Exis	ting Wood	s, Good, H	SG C	
0	.021	98 Exis	ting imper	vious, HSG	D	
0	.028	78 Exis	ting mead	ow, non-gra	azed, HSG D	
0	.268	77 Exis	ting Wood	s, Good, H	SG D	
1	.599	72 Weig	ghted Aver	age		
1	.578	98.6	9% Pervio	us Area		
0	.021	1.31	% Impervi	ous Area		
Tc	Length	Slope	Velocity	Capacity	Description	
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		
10.8	57	0.2100	0.09		Sheet Flow,	
					Woods: Dense underbrush n= 0.800 P2= 2.40"	
1.0	68	0.2100	1.15		Shallow Concentrated Flow,	
					Forest w/Heavy Litter Kv= 2.5 fps	
3.9	218	0.1400	0.94		Shallow Concentrated Flow,	
					Forest w/Heavy Litter Kv= 2.5 fps	
4.7	281	0.1600	1.00		Shallow Concentrated Flow,	
					Forest w/Heavy Litter Kv= 2.5 fps	
4.3	258	0.1600	1.00		Shallow Concentrated Flow,	
4.4	00	0.0400	4.45		Forest w/Heavy Litter Kv= 2.5 fps	
1.4	96	0.2100	1.15		Shallow Concentrated Flow,	
	0=0				Forest w/Heavy Litter Kv= 2.5 fps	
26.1	978	Total				

Summary for Subcatchment 89S: WS20

Runoff = 5.73 cfs @ 12.67 hrs, Volume= 1.166 af, Depth= 0.35"

Area (ac)	CN	Description
1.023	98	Existing impervious, HSG C
0.436	98	Existing impervious, HSG D
6.987	71	Existing meadow, non-grazed, HSG C
6.713	78	Existing meadow, non-grazed, HSG D
16.006	70	Existing Woods, Good, HSG C
 8.839	77	Existing Woods, Good, HSG D
40.004	74	Weighted Average
38.545		96.35% Pervious Area
1.459		3.65% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
3.9	242	0.1700	1.03		Shallow Concentrated Flow,
1.2	270	0.2500	2.50		Forest w/Heavy Litter Kv= 2.5 fps
1.3	278	0.2500	3.50		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.8	258	0.1200	2.42		Shallow Concentrated Flow,
1.0	200	0.1200	2.72		Short Grass Pasture Kv= 7.0 fps
0.9	134	0.1300	2.52		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
0.4	77	0.2600	3.57		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
1.0	165	0.1700	2.89		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
2.4	177	0.2400	1.22		Shallow Concentrated Flow,
4.0	007	0.4000	0.50		Forest w/Heavy Litter Kv= 2.5 fps
1.6	237	0.1300	2.52		Shallow Concentrated Flow,
1.7	222	0.1000	2.21		Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,
1.7	232	0.1000	2.21		Short Grass Pasture Kv= 7.0 fps
13.7	544	0.0700	0.66		Shallow Concentrated Flow,
10.7	011	0.0700	0.00		Forest w/Heavy Litter Kv= 2.5 fps
7.4	332	0.0900	0.75		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.5	188	0.1300	0.90		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.5	252	0.2300	1.20		Shallow Concentrated Flow,
0.4	000	0.4400	40.04	100.10	Forest w/Heavy Litter Kv= 2.5 fps
0.4	298	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.2	200	0.1800	13.88	138.82	n= 0.050 Mountain streams w/large boulders Trap/Vee/Rect Channel Flow,
0.2	200	0.1000	13.00	130.02	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.3	229	0.1500	12.67	126.72	
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.3	227	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.3	242	0.1300	11.80	117.97	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	4.007	T.4.1			n= 0.050 Mountain streams w/large boulders
55.5	4,364	Total			

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Summary for Subcatchment 90S: WS21

Runoff = 0.98 cfs @ 12.46 hrs, Volume= 0.166 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 1-Year Rainfall=2.00"

	Area	(ac) C	N Desc	cription						
	0.020 98 Existing impervious, HSG D									
	0.181 71 Existing meadow, non-grazed, HSG C									
	0.412 78 Existing meadow, non-grazed, HSG D									
	3.099 70 Existing Woods, Good, HSG C									
_	2.516 77 Existing Woods, Good, HSG D									
	6.228 73 Weighted Average									
		208	99.6	8% Pervio	us Area					
	0.	020	0.32	% Impervi	ous Area					
	_									
	Tc	Length	Slope	Velocity		Description				
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	10.9	40	0.1000	0.06		Sheet Flow,				
						Woods: Dense underbrush n= 0.800 P2= 2.40"				
	3.6	173	0.1000	0.79		Shallow Concentrated Flow,				
	- 0	050	0.0000	4.40		Forest w/Heavy Litter Kv= 2.5 fps				
	5.3	356	0.2000	1.12		Shallow Concentrated Flow,				
	4.5	262	0.4500	0.07		Forest w/Heavy Litter Kv= 2.5 fps				
	4.5	262	0.1500	0.97		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps				
	2.2	150	0.2000	1.12		Shallow Concentrated Flow,				
	۷.۷	130	0.2000	1.12		Forest w/Heavy Litter Kv= 2.5 fps				
	6.5	364	0.1400	0.94		Shallow Concentrated Flow,				
	0.0	004	0.1400	0.54		Forest w/Heavy Litter Kv= 2.5 fps				
	3.3	189	0.1500	0.97		Shallow Concentrated Flow,				
	0.0			0.0.		Forest w/Heavy Litter Kv= 2.5 fps				
	3.5	194	0.1400	0.94		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	0.1	69	0.0300	8.52	25.56	Trap/Vee/Rect Channel Flow,				
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
_						n= 0.022 Earth, clean & straight				
	39.9	1,797	Total							

Summary for Subcatchment 91S: WS22

Runoff = 1.73 cfs @ 12.54 hrs, Volume= 0.281 af, Depth= 0.45"

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Area	(ac) C	N Desc	cription					
0.	0.074 98 Existing impervious, HSG D							
0.	307 7	'1 Exist	ting meado	ow, non-gra	azed, HSG C			
2.	2.930 78 Existing meadow, non-grazed, HSG D							
	0.876 70 Existing Woods, Good, HSG C							
3.	3.329 77 Existing Woods, Good, HSG D							
7.	516 7		ghted Aver					
	442		2% Pervio					
0.	074	0.98	% Impervi	ous Area				
_				_				
Tc	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
10.9	42	0.1100	0.06		Sheet Flow,			
	200	0.4400	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"			
5.8	290	0.1100	0.83		Shallow Concentrated Flow,			
- 0	000	0.4400	0.00		Forest w/Heavy Litter Kv= 2.5 fps			
5.3	266	0.1100	0.83		Shallow Concentrated Flow,			
7.0	395	0.1400	0.94		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,			
7.0	393	0.1400	0.94		Forest w/Heavy Litter Kv= 2.5 fps			
5.2	315	0.1600	1.00		Shallow Concentrated Flow,			
5.2	313	0.1000	1.00		Forest w/Heavy Litter Kv= 2.5 fps			
6.4	382	0.1600	1.00		Shallow Concentrated Flow,			
0.1	002	0000	1.00		Forest w/Heavy Litter Kv= 2.5 fps			
6.5	377	0.1500	0.97		Shallow Concentrated Flow,			
	-				Forest w/Heavy Litter Kv= 2.5 fps			
0.1	44	0.0200	6.96	20.87	Trap/Vee/Rect Channel Flow,			
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
					n= 0.022 Earth, clean & straight			
47.3	2,111	Total						

Summary for Subcatchment 92S: WS23

Runoff = 0.79 cfs @ 12.27 hrs, Volume= 0.091 af, Depth= 0.41"

Area (ac)	CN	Description
0.039	98	Existing impervious, HSG D
0.363	71	Existing meadow, non-grazed, HSG C
0.449	78	Existing meadow, non-grazed, HSG D
0.148	70	Existing Woods, Good, HSG C
1.643	77	Existing Woods, Good, HSG D
2.642	76	Weighted Average
2.603		98.52% Pervious Area
0.039		1.48% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
3.5	212	0.1600	1.00		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.3	247	0.1500	0.97		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.6	267	0.1500	0.97		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.0	280	0.1400	0.94		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.1	66	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022 Earth, clean & straight
28.3	1,122	Total			

Summary for Subcatchment 93S: WS1A

Runoff = 1.02 cfs @ 12.27 hrs, Volume= 0.115 af, Depth= 0.45"

_	Area	(ac) C	N Des	cription		
	0.	011 7	'8 Exis	ting meado	azed, HSG D	
_	3.	065 7	7 Exis	ting Wood	s, Good, H	SG D
	3.	076 7	7 Weig	ghted Aver	age	
	3.	076	100.	00% Pervi	ous Area	
	Tc	Length	Slope	Velocity	Capacity	Description
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	10.9	31	0.0600	0.05		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	5.2	191	0.0600	0.61		Shallow Concentrated Flow,
			0.4400	0.04		Forest w/Heavy Litter Kv= 2.5 fps
	1.1	59	0.1400	0.94		Shallow Concentrated Flow,
	4.0	400	0.0700	0.00		Forest w/Heavy Litter Kv= 2.5 fps
	4.9	193	0.0700	0.66		Shallow Concentrated Flow,
	4.1	161	0.0700	0.66		Forest w/Heavy Litter Kv= 2.5 fps
	4.1	161	0.0700	0.66		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
	2.2	107	0.1100	0.83		Shallow Concentrated Flow,
	۷.۷	101	0.1100	0.00		Forest w/Heavy Litter Kv= 2.5 fps
	0.1	79	0.0500	9.26	314.98	Trap/Vee/Rect Channel Flow,
	0.1	7.5	0.0000	3.20	014.00	Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'
						n= 0.050 Mountain streams w/large boulders
-	28.5	821	Total			c.occcacacacacac
	20.0	021	· Otal			

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Summary for Subcatchment 94S: WS1B

Runoff = 4.88 cfs @ 12.08 hrs, Volume= 0.342 af, Depth= 0.48"

Area	(ac) C	N Desc	cription							
0.	0.425 98 Existing impervious, HSG D									
0.427 78 Existing meadow, non-grazed, HSG D 7.619 77 Existing Woods, Good, HSG D										
7.	7.619 77 Existing Woods, Good, HSG D 8.471 78 Weighted Average									
8.										
	046	94.9	8% Pervio	us Area						
0.	425	5.02	% Impervi	ous Area						
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.9	38	0.0900	0.06		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
0.4	336	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
0.4	339	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
0.4	000	0.0700	40.04	00.04	n= 0.022 Earth, clean & straight					
0.4	336	0.0700	13.01	39.04	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
0.4	278	0.0600	12.05	36.14	n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow,					
0.4	210	0.0000	12.03	30.14	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
0.4	283	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,					
0.4	203	0.0000	12.03	30.14	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
0.1	118	0.0800	13.91	41.73	Trap/Vee/Rect Channel Flow,					
0.1	110	0.0000	10.51	41.70	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
0.2	164	0.0700	13.01	39.04	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
0.1	83	0.1400	18.40	55.21	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/ Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
8.0	505	0.0600	10.15	345.05	Trap/Vee/Rect Channel Flow,					
					Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'					
					n= 0.050 Mountain streams w/large boulders					
14.1	2,480	Total								

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Summary for Subcatchment 95S: WS1C

Runoff = 5.99 cfs @ 12.50 hrs, Volume= 0.874 af, Depth= 0.60"

Area (a	ac)	CN	Description	
3.2	281	98	Existing impervious, HSG D	
3.7	'04	78	Existing meadow, non-grazed, HSG D	
10.3	864	77	Existing Woods, Good, HSG D	
17.3	349	81	Weighted Average	
14.0	86(81.09% Pervious Area	
3.2	3.281 18.91% Impervious Area			

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(min) (feet) (ft/ft) (ft/sec) (cfs) 10.7 48 0.1500 0.07 Sheet Flow, Woods: Dense underbrush n= 0.800 Flow, Shallow Concentrated Flow, 3.0 172 0.1500 0.97 Shallow Concentrated Flow,	P2= 2.40"
3.0 172 0.1500 0.97 Shallow Concentrated Flow,	P2= 2.40"
·	
Forest w/Heavy Litter Kv= 2.5 fps	
4.9 164 0.0500 0.56 Shallow Concentrated Flow,	
Forest w/Heavy Litter Kv= 2.5 fps	
0.9 77 0.3100 1.39 Shallow Concentrated Flow,	
Forest w/Heavy Litter Kv= 2.5 fps 0.2 157 0.0600 12.05 36.14 Trap/Vee/Rect Channel Flow,	
0.2 157 0.0600 12.05 36.14 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=	-4 00'
n= 0.022 Earth, clean & straight	-4.00
0.5 350 0.0600 12.05 36.14 Trap/Vee/Rect Channel Flow,	
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=	=4 00'
n= 0.022 Earth, clean & straight	-4.00
0.2 219 0.0900 14.75 44.26 Trap/Vee/Rect Channel Flow,	
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=	=4 00'
n= 0.022 Earth, clean & straight	4.00
0.3 251 0.0900 14.75 44.26 Trap/Vee/Rect Channel Flow,	
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=	=4.00'
n= 0.022 Earth, clean & straight	
0.4 316 0.0600 12.05 36.14 Trap/Vee/Rect Channel Flow,	
Bot.W=2.00' D=1.00' Z= 1.0 '/ Top.W=	=4.00'
n= 0.022 Earth, clean & straight	
0.1 73 0.1900 21.44 64.31 Trap/Vee/Rect Channel Flow,	
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=	=4.00'
n= 0.022 Earth, clean & straight	
0.4 300 0.0700 13.01 39.04 Trap/Vee/Rect Channel Flow,	
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=	=4.00'
n= 0.022 Earth, clean & straight	
0.4 179 0.0200 6.96 20.87 Trap/Vee/Rect Channel Flow,	4.001
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=	=4.00'
n= 0.022 Earth, clean & straight	
10.2 342 0.0500 0.56 Shallow Concentrated Flow,	
Forest w/Heavy Litter Kv= 2.5 fps	
5.2 236 0.0900 0.75 Shallow Concentrated Flow,	
Forest w/Heavy Litter Kv= 2.5 fps 4.7 199 0.0800 0.71 Shallow Concentrated Flow,	
Forest w/Heavy Litter Kv= 2.5 fps	
4.7 224 0.1000 0.79 Shallow Concentrated Flow,	
Forest w/Heavy Litter Kv= 2.5 fps	
0.6 360 0.0800 9.25 92.55 Trap/Vee/Rect Channel Flow,	
Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=	=7.00'
n= 0.050 Mountain streams w/large bou	
47.4 3,667 Total	

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Summary for Subcatchment 96S: WS1D

Runoff = 15.30 cfs @ 12.49 hrs, Volume= 2.521 af, Depth= 0.38"

 Area (ac)	CN	Description					
 4.794	98	Existing impervious, HSG C					
1.682	98	Existing impervious, HSG D					
15.372	71	Existing meadow, non-grazed, HSG C					
10.464	78	Existing meadow, non-grazed, HSG D					
27.478	70	Existing Woods, Good, HSG C					
 19.608	77	Existing Woods, Good, HSG D					
79.398	75	Weighted Average					
72.922		91.84% Pervious Area					
6.476		8.16% Impervious Area					

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6.2	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9 388 0.2300 3.36 Shallow Concentrated Flow, Short Grass Pasture Kv=7.0 fps	6.2	100	0.2300	0.27		Sheet Flow,
Short Grass Pasture Kv= 7.0 fps						Grass: Dense n= 0.240 P2= 2.40"
A.4 312 0.2200 1.17 Shallow Concentrated Flow, Forest W/Heavy Litter Kv = 2.5 fps Shallow Concentrated Flow, Forest W/Heavy Litter Kv = 2.5 fps Shallow Concentrated Flow, Forest W/Heavy Litter Kv = 2.5 fps Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z=1.0'' Top.W=4.00' n= 0.022 Earth, clean & straight Shallow Concentrated Flow, Paved Kv = 2.0 fps Shallow Concentrated Flow, Paved Kv = 2.5	1.9	388	0.2300	3.36		· · · · · · · · · · · · · · · · · · ·
Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, Paved Kv= 20.3 fps Shallow Concentrated Flow, Paved Kv= 20.5 fps Shallow Concentrated Flow, Paved Kv= 20.5 fps Shallow Concentrated Flow, Paved Kv= 20.5 fps Shallow Concentrated Flow, Paved Kv= 20.0 Pav						
7.8	4.4	312	0.2200	1.17		
						· · · · · · · · · · · · · · · · · · ·
0.1	7.8	440	0.1400	0.94		
Bot.W=2.00 D=1.00' Z=1.0' Top.W=4.00' n=0.022 Earth, clean & straight	0.4	400	0.4400	40.04	40.04	
N=0.022 Earth, clean & straight	0.1	123	0.1100	10.31	46.94	
Shallow Concentrated Flow, Paved Kv= 20.3 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy						
Paved Kv= 20.3 fps Shallow Concentrated Flow, Forest W-Heavy Litter Kv= 2.5 fps	0.6	266	0 1300	7 32		
Shallow Concentrated Flow, Forest W/Heavy Litter Kv= 2.5 fps	0.0	200	0.1000	1.02		
Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' To	6.2	457	0.2400	1 22		
0.1 130 0.1200 17.04 51.11 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter	0.2		0.2.00			
Bot.W=2.00' D=1.00' Z= 1.0 '/ Top.W=4.00' n= 0.022 Earth, clean & straight	0.1	130	0.1200	17.04	51.11	·
n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight						
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight						
n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight	0.4	378	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow,
0.3						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
Bot.W=2.00' D=1.00' Z= 1.0 '/ Top.W=4.00' n= 0.022 Earth, clean & straight						
n= 0.022 Earth, clean & straight	0.3	258	0.0900	14.75	44.26	
0.3						
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight	0.0	000	0.4000	47.04	54.44	
n= 0.022 Earth, clean & straight	0.3	263	0.1200	17.04	51.11	
4.2 242 0.1500 0.97 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 2.3 150 0.1900 1.09 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 4.6 256 0.1400 0.94 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.4 314 0.1400 12.24 122.43 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 0.5 373 0.1400 12.24 122.43 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 0.7 447 0.1200 11.33 113.34 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 1.1 658 0.0900 9.82 98.16 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 0.7 390 0.0500 8.83 212.04 Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders 0.8 505 0.0600 10.15 345.05 Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders						
Forest w/Heavy Litter Kv= 2.5 fps	12	242	0.1500	0.07		
2.3	4.2	242	0.1300	0.91		
Forest w/Heavy Litter Kv= 2.5 fps 4.6	23	150	0 1900	1 09		
4.6 256 0.1400 0.94 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.4 314 0.1400 12.24 122.43 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 0.5 373 0.1400 12.24 122.43 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 0.7 447 0.1200 11.33 113.34 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 1.1 658 0.0900 9.82 98.16 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 0.7 390 0.0500 8.83 212.04 Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders 0.8 505 0.0600 10.15 345.05 Trap/Vee/Rect Channel Flow,	2.0	100	0.1000	1.00		
Forest w/Heavy Litter Kv= 2.5 fps	4.6	256	0.1400	0.94		
0.4 314 0.1400 12.24 122.43 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 0.5 373 0.1400 12.24 122.43 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 0.7 447 0.1200 11.33 113.34 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 1.1 658 0.0900 9.82 98.16 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 0.7 390 0.0500 8.83 212.04 Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders 0.8 505 0.0600 10.15 345.05 Trap/Vee/Rect Channel Flow,						
n= 0.050 Mountain streams w/large boulders 12.24 122.43 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 11.33 113.34 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 11.4 658 0.0900 9.82 98.16 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 11.4 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 11.5 Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders 11.5 Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders 11.5 Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' Trap/Vee/Rect Channel Flow,	0.4	314	0.1400	12.24	122.43	
0.5 373 0.1400 12.24 122.43 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 0.7 447 0.1200 11.33 113.34 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 1.1 658 0.0900 9.82 98.16 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 0.7 390 0.0500 8.83 212.04 Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders 0.8 505 0.0600 10.15 345.05 Trap/Vee/Rect Channel Flow,						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 1.1 658 0.0900 9.82 98.16 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 1.1 658 0.0900 9.82 98.16 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 1.1 390 0.0500 8.83 212.04 Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders 1.1 300 0.0500 10.15 345.05 Trap/Vee/Rect Channel Flow, Trap/Vee/Rect Channel Flow, Trap/Vee/Rect Channel Flow,						
n= 0.050 Mountain streams w/large boulders 1.1	0.5	373	0.1400	12.24	122.43	
0.7 447 0.1200 11.33 113.34 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 1.1 658 0.0900 9.82 98.16 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 0.7 390 0.0500 8.83 212.04 Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders 0.8 505 0.0600 10.15 345.05 Trap/Vee/Rect Channel Flow,						
Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 1.1 658 0.0900 9.82 98.16 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 0.7 390 0.0500 8.83 212.04 Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders 0.8 505 0.0600 10.15 345.05 Trap/Vee/Rect Channel Flow,	0.7	4.47	0.4000	44.00	440.04	
n= 0.050 Mountain streams w/large boulders 1.1 658 0.0900 9.82 98.16 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 0.7 390 0.0500 8.83 212.04 Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders 0.8 505 0.0600 10.15 345.05 Trap/Vee/Rect Channel Flow,	0.7	447	0.1200	11.33	113.34	
1.1 658 0.0900 9.82 98.16 Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 0.7 390 0.0500 8.83 212.04 Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders 0.8 505 0.0600 10.15 345.05 Trap/Vee/Rect Channel Flow,						
Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders 0.7 390 0.0500 8.83 212.04 Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders 0.8 505 0.0600 10.15 345.05 Trap/Vee/Rect Channel Flow,	1 1	659	0.0000	0.92	09.16	
n= 0.050 Mountain streams w/large boulders 0.7 390 0.0500 8.83 212.04 Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders 0.8 505 0.0600 10.15 345.05 Trap/Vee/Rect Channel Flow,	1.1	030	0.0900	9.02	90.10	
0.7 390 0.0500 8.83 212.04 Trap/Vee/Rect Channel Flow, Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders 0.8 505 0.0600 10.15 345.05 Trap/Vee/Rect Channel Flow,						
Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders 0.8 505 0.0600 10.15 345.05 Trap/Vee/Rect Channel Flow,	0.7	390	0.0500	8.83	212 04	
n= 0.050 Mountain streams w/large boulders 0.8 505 0.0600 10.15 345.05 Trap/Vee/Rect Channel Flow,	J.,	555	2.2000	5.55		
0.8 505 0.0600 10.15 345.05 Trap/Vee/Rect Channel Flow,						
	8.0	505	0.0600	10.15	345.05	
						Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'

Prepared by VHB

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n= 0.050 Mountain streams w/large boulders

43.6 6,450 Total

Summary for Subcatchment 97S: WS24

Runoff = 2.47 cfs @ 12.57 hrs, Volume= 0.410 af, Depth= 0.48"

 Area ((ac) C	N Des	cription		
0.4	457 9	8 Exis	ting imper	vious, HSG	D
0.3					azed, HSG C
3.	359 7				azed, HSG D
0.0	012 7	0 Exis	ting Wood	s, Good, H	SG C
5.9	942 7	7 Exis	ting Wood	s, Good, H	SG D
10.	169 7	'8 Weid	hted Aver	age	
9.	712		1% Pervio		
0.4	457	4.49	% Impervi	ous Area	
			•		
Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	·
10.7	43	0.1200	0.07		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
11.8	613	0.1200	0.87		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
8.9	420	0.1000	0.79		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.5	139	0.1400	0.94		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.2	108	0.1100	0.83		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.2	227	0.1300	0.90		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.4	240	0.1600	2.80		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
1.2	201	0.1600	2.80		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
3.9	225	0.1500	0.97		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.3	242	0.1400	0.94		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.0	19	0.2100	12.09	36.28	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041 Riprap, 2-inch
51.1	2,477	Total			

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Summary for Subcatchment 98S: WS19

Runoff 0.97 cfs @ 12.59 hrs, Volume= 0.194 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 1-Year Rainfall=2.00"

Area	(ac) C	N Desc	cription					
0.008 98 Existing impervious, HSG D								
0.954 71 Existing meadow, non-grazed, HSG C								
0.384 78 Existing meadow, non-grazed, HSG D								
4.939 70 Existing Woods, Good, HSG C								
1.	.690 7	77 Exis	ting Wood	s, Good, H	SG D			
7.	.975 7	'2 Weig	ghted Aver	age				
7.	.967	99.9	0% Pervio	us Area				
0.	.008	0.10	% Impervi	ous Area				
Tc	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
10.7	41	0.1100	0.06		Sheet Flow,			
					Woods: Dense underbrush n= 0.800 P2= 2.40"			
5.3	262	0.1100	0.83		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
7.3	422	0.1500	0.97		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
8.1	501	0.1700	1.03		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
3.1	213	0.2100	1.15		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
4.6	258	0.1400	0.94		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
7.7	465	0.1600	1.00		Shallow Concentrated Flow,			
0.4	400		40.05	00.44	Forest w/Heavy Litter Kv= 2.5 fps			
0.1	102	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,			
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
					n= 0.022 Earth, clean & straight			
47.0	2,264	Total						

Summary for Subcatchment 103S: WS 1CA

Runoff 9.62 cfs @ 12.02 hrs, Volume= 0.533 af, Depth= 0.85"

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	Area	(ac) C	N Desc	cription			
	3.	139 9	8 Exist	ting imper	vious, HSG	D	
	0.	835 7				azed, HSG D	
3.561 77 Existing Woods, Good, HSG D							
_	7.	535 8	86 Weio	hted Aver	age		
		396		4% Pervio	•		
		139			vious Area		
				'			
	Tc	Length	Slope	Velocity	Capacity	Description	
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	·	
_	1.1	100	0.0400	1.57		Sheet Flow,	
						Smooth surfaces n= 0.011 P2= 2.40"	
	3.0	89	0.0400	0.50		Shallow Concentrated Flow,	
						Forest w/Heavy Litter Kv= 2.5 fps	
	2.0	161	0.3000	1.37		Shallow Concentrated Flow,	
						Forest w/Heavy Litter Kv= 2.5 fps	
	0.4	391	0.0500	16.63	166.28	Trap/Vee/Rect Channel Flow,	
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'	
						n= 0.022 Earth, clean & straight	
	3.6	208	0.1500	0.97		Shallow Concentrated Flow,	
						Forest w/Heavy Litter Kv= 2.5 fps	
	10.1	949	Total				

Summary for Subcatchment 106S: WS 1G

Runoff = 6.78 cfs @ 12.37 hrs, Volume= 0.985 af, Depth= 0.35"

	Area (ac)	CN	Description					
_	0.906	71	Existing meadow, non-grazed, HSG C					
	12.918	70	Existing Woods, Good, HSG C					
	0.004	98	Existing impervious, HSG D					
	3.805	78	Existing meadow, non-grazed, HSG D					
_	16.155	77	Existing Woods, Good, HSG D					
_	33.788	74	Weighted Average					
	33.784		99.99% Pervious Area					
	0.004		0.01% Impervious Area					

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	8.0	100	0.1200	0.21		Sheet Flow,
	4.0	400	0.4000	0.40		Grass: Dense n= 0.240 P2= 2.40"
	1.3	182	0.1200	2.42		Shallow Concentrated Flow,
	4.7	112	0.4000	1.58		Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,
	4.7	443	0.4000	1.50		Forest w/Heavy Litter Kv= 2.5 fps
	0.6	118	0.2200	3.28		Shallow Concentrated Flow,
	0.0	110	O.LLOO	0.20		Short Grass Pasture Kv= 7.0 fps
	1.9	458	0.3200	3.96		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	8.9	564	0.1800	1.06		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.0	366	0.3700	1.52		Shallow Concentrated Flow,
	2.5	460	0.4000	4.00		Forest w/Heavy Litter Kv= 2.5 fps
	2.5	162	0.1900	1.09		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
	0.5	449	0.2000	14.63	146.33	Trap/Vee/Rect Channel Flow,
	0.5	773	0.2000	17.00	140.00	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050
	0.5	450	0.2000	14.63	146.33	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050
	0.5	408	0.2100	14.99	149.94	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	0.7		0.4500	40.07	400.70	n= 0.050
	0.7	554	0.1500	12.67	126.72	• • • • • • • • • • • • • • • • • • • •
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
	0.5	391	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,
	0.5	331	0.1000	13.03	150.00	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050
-	34.6	4,645	Total			
		.,				

Summary for Subcatchment 107S: WS 1H

Runoff = 8.44 cfs @ 12.69 hrs, Volume= 1.734 af, Depth= 0.35"

Area (ac)	CN	Description
2.007	71	Existing meadow, non-grazed, HSG C
22.781	70	Existing Woods, Good, HSG C
4.416	78	Existing meadow, non-grazed, HSG D
30.287	77	Existing Woods, Good, HSG D
59.491	74	Weighted Average
59.491		100.00% Pervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	10.7	59	0.2300	0.09		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	1.5	105	0.2300	1.20		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	1.3	330	0.3600	4.20		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.3	212	0.3900	1.56		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.5	108	0.2400	3.43		Shallow Concentrated Flow,
	4.0	0.40	0.0000	4.44		Short Grass Pasture Kv= 7.0 fps
	4.0	346	0.3300	1.44		Shallow Concentrated Flow,
	2.2	100	0.1500	0.07		Forest w/Heavy Litter Kv= 2.5 fps
	3.3	190	0.1500	0.97		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
	4.8	320	0.2000	1.12		Shallow Concentrated Flow,
	4.0	320	0.2000	1.12		Forest w/Heavy Litter Kv= 2.5 fps
	4.8	411	0.3200	1.41		Shallow Concentrated Flow,
	4.0	711	0.0200	1.71		Forest w/Heavy Litter Kv= 2.5 fps
	3.0	281	0.3900	1.56		Shallow Concentrated Flow,
	0.0		0.0000			Forest w/Heavy Litter Kv= 2.5 fps
	3.2	255	0.2900	1.35		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.0	223	0.2400	1.22		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	10.3	601	0.1500	0.97		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	1.8	147	0.2900	1.35		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.5	403	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	0.4	0.40	0.4000	44.00	400.00	n= 0.050 Mountain streams w/large boulders
	0.4	348	0.1600	14.26	199.63	Trap/Vee/Rect Channel Flow,
						Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
	0.5	465	0.1900	15.54	217.55	n= 0.050 Mountain streams w/large boulders
	0.5	400	0.1900	13.54	217.00	Trap/Vee/Rect Channel Flow, Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
						n= 0.050 Mountain streams w/large boulders
-	55.9	4,804	Total			11 0.000 Modifically Streams Wilarge boulders
	55.8	4,004	i Ulai			

Summary for Subcatchment 108S: WS1F

Runoff = 6.35 cfs @ 12.58 hrs, Volume= 1.175 af, Depth= 0.35"

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Area	(ac) C	N Desc	cription		
0.	002			vious, HSG	
0.	362	8 Exis	ting imper	vious, HSG	D
4.	817 7	1 Exis	ting mead	ow, non-gra	azed, HSG C
9.	293 7				azed, HSG D
15.	585 7	0 Exis	ting Wood	s, Good, H	SG C
10.	235 7			s, Good, H	
			ghted Aver		
	930		0% Pervio		
	364		% Impervi		
0.	001	0.00	70 IIIIpoi VI	04071104	
Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Becomplient
10.9	52	0.1700	0.08	(010)	Shoot Flow
10.9	32	0.1700	0.08		Sheet Flow,
2.0	227	0.4700	4.00		Woods: Dense underbrush n= 0.800 P2= 2.40"
3.8	237	0.1700	1.03		Shallow Concentrated Flow,
4.0	070	0.4000	4.00		Forest w/Heavy Litter Kv= 2.5 fps
4.2	276	0.1900	1.09		Shallow Concentrated Flow,
a =	4.40	0.0700	0.00		Forest w/Heavy Litter Kv= 2.5 fps
3.7	148	0.0700	0.66		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
6.9	402	0.1500	0.97		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.5	396	0.3500	1.48		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.9	373	0.4000	1.58		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.1	334	0.3000	1.37		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.7	331	0.2200	1.17		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.4	341	0.2300	15.69	156.92	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.4	396	0.2200	15.35	153.47	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.4	367	0.2300	15.69	156.92	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.5	394	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.2	144	0.2200	15.35	153.47	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
48.6	4,191	Total			

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Summary for Subcatchment 110S: WS1E

Runoff = 3.99 cfs @ 12.69 hrs, Volume= 0.851 af, Depth= 0.32"

Area (ad	c) CN	Description
0.32	8 98	Existing impervious, HSG C
0.08	2 98	Existing impervious, HSG D
3.84	6 71	Existing meadow, non-grazed, HSG C
4.27	2 78	Existing meadow, non-grazed, HSG D
17.22	3 70	Existing Woods, Good, HSG C
6.15	0 77	Existing Woods, Good, HSG D
31.90	1 73	Weighted Average
31.49	1	98.71% Pervious Area
0.41	0	1.29% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	53		0.08	, ,	Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	113	0.1800	1.06		Shallow Concentrated Flow,
0.0	454	0.0400	4.45		Forest w/Heavy Litter Kv= 2.5 fps
2.2	154	0.2100	1.15		Shallow Concentrated Flow,
3.4	191	0.1400	0.94		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
3.4	191	0.1400	0.94		Forest w/Heavy Litter Kv= 2.5 fps
2.4	146	0.1600	1.00		Shallow Concentrated Flow,
	110	0.1000	1.00		Forest w/Heavy Litter Kv= 2.5 fps
1.8	137	0.2500	1.25		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.6	204	0.2800	1.32		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.3	134	0.1500	0.97		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.3	286	0.2000	1.12		Shallow Concentrated Flow,
2.2	004	0.0700	4.20		Forest w/Heavy Litter Kv= 2.5 fps
3.3	261	0.2700	1.30		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
5.2	341	0.1900	1.09		Shallow Concentrated Flow,
5.2	J 4 1	0.1300	1.03		Forest w/Heavy Litter Kv= 2.5 fps
6.3	423	0.2000	1.12		Shallow Concentrated Flow,
0.0		0.2000			Forest w/Heavy Litter Kv= 2.5 fps
4.7	301	0.1800	1.06		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.9	196	0.2000	1.12		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.3	223	0.1500	12.67	126.72	•
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.4	222	0.4700	40.40	404.04	n= 0.050
0.4	333	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	440	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,
0.5	440	0.1300	14.20	142.02	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.2	189	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
55.4	4,125	Total			

Summary for Subcatchment 111S: WS4A

Runoff = 5.59 cfs @ 12.80 hrs, Volume= 1.216 af, Depth= 0.38"

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Area	(ac) C	N Desc	cription		
0.	521 7	'1 Exis	ting mead	ow, non-gra	azed, HSG C
4.	362 7	'8 Exis	ting mead	ow, non-gra	azed, HSG D
12.	444 7	0 Exis	ting Wood	s, Good, H	SG C
20.	.988 7	7 Exis	ting Wood	s, Good, H	SG D
38.	315 7	'5 Weig	hted Aver	age	
38.	315		00% Pervi		
Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	·
10.7	73	0.3500	0.11	, , ,	Sheet Flow,
-					Woods: Dense underbrush n= 0.800 P2= 2.40"
6.0	529	0.3500	1.48		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.0	350	0.3400	1.46		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
7.0	505	0.2300	1.20		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
8.5	623	0.2400	1.22		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.9	355	0.3700	1.52		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.6	337	0.2400	1.22		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
7.5	437	0.1500	0.97		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.5	330	0.1600	1.00		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
6.1	345	0.1400	0.94		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.1	45	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
63.9	3,929	Total			

Summary for Subcatchment 142S: WS1I

Runoff = 4.20 cfs @ 12.31 hrs, Volume= 0.521 af, Depth= 0.41"

 Area (ac)	CN	Description
0.123	98	Existing impervious, HSG D
2.494	70	Existing Woods, Good, HSG C
 12.485	77	Existing Woods, Good, HSG D
15.102	76	Weighted Average
14.979		99.19% Pervious Area
0.123		0.81% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
4.7	293	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.3	337	0.1800	1.06		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.6	279	0.1600	1.00		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.8	199	0.2200	1.17		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.5	431	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.5	373	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.7	447	0.1200	11.33	113.34	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
1.1	658	0.0900	9.82	98.16	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
31.2	3,069	Total			

Summary for Subcatchment 143S: WS1J

Runoff = 7.16 cfs @ 12.23 hrs, Volume= 0.770 af, Depth= 0.41"

 Area (ac)	CN	Description
0.230	98	Existing impervious, HSG D
0.095	71	Existing meadow, non-grazed, HSG C
0.159	78	Existing meadow, non-grazed, HSG D
4.342	70	Existing Woods, Good, HSG C
17.520	77	Existing Woods, Good, HSG D
 22.346	76	Weighted Average
22.116		98.97% Pervious Area
0.230		1.03% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	10.9	52	0.1700	0.08	, ,	Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	4.3	269	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	5.3	336	0.1800	1.06		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	2.5	167	0.2000	1.12		Shallow Concentrated Flow,
				4-00		Forest w/Heavy Litter Kv= 2.5 fps
	0.5	486	0.1300	15.28	641.91	Trap/Vee/Rect Channel Flow,
						Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
	0.5	E 4 C	0.4700	47.40	704.00	n= 0.050
	0.5	546	0.1700	17.48	734.06	Trap/Vee/Rect Channel Flow,
						Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
	0.5	102	0.1200	14.68	616.73	Trap/Vee/Rect Channel Flow,
	0.5	403	0.1200	14.00	010.73	Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
						n= 0.050
	0.5	426	0.1100	14.06	590.48	Trap/Vee/Rect Channel Flow,
	0.0	120	0.1100	14.00	000.40	Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
						n= 0.050
	0.4	336	0.0900	12.72	534.11	Trap/Vee/Rect Channel Flow,
						Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
						n= 0.050
_	25.4	3,101	Total			

Summary for Reach 40R: stream

Inflow Area = 38.315 ac, 0.00% Impervious, Inflow Depth = 0.38" for 1-Year event

Inflow = 5.45 cfs @ 13.06 hrs, Volume= 1.216 af

Outflow = 5.43 cfs @ 13.16 hrs, Volume= 1.216 af, Atten= 0%, Lag= 6.0 min

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

Max. Velocity= 3.54 fps, Min. Travel Time= 3.6 min Avg. Velocity = 1.33 fps, Avg. Travel Time= 9.6 min

Peak Storage= 1,180 cf @ 13.10 hrs

Average Depth at Peak Storage= 0.25', Surface Width= 6.49' Bank-Full Depth= 2.00' Flow Area= 16.0 sf, Capacity= 186.92 cfs

6.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 10.00'

Length= 770.0' Slope= 0.1013 '/'

Inlet Invert= 1,563.00', Outlet Invert= 1,485.00'

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Summary for Reach 42R: stream

Inflow Area = 38.315 ac, 0.00% Impervious, Inflow Depth = 0.38" for 1-Year event

Inflow = 5.59 cfs @ 12.80 hrs, Volume= 1.216 af

Outflow = 5.45 cfs @ 13.06 hrs, Volume= 1.216 af, Atten= 3%, Lag= 16.0 min

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

Max. Velocity = 4.38 fps, Min. Travel Time = 9.3 min Avg. Velocity = 1.53 fps, Avg. Travel Time = 26.5 min

Peak Storage= 3,039 cf @ 12.91 hrs

Average Depth at Peak Storage= 0.24', Surface Width= 5.48' Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 60.47 cfs

5.00' x 1.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 2,440.0' Slope= 0.1639 '/'

Inlet Invert= 1,973.00', Outlet Invert= 1,573.00'

Summary for Reach 102R: stream

Inflow Area = 315.675 ac, 4.58% Impervious, Inflow Depth = 0.39" for 1-Year event

Inflow = 47.96 cfs @ 12.68 hrs, Volume= 10.306 af

Outflow = 47.80 cfs @ 12.75 hrs, Volume= 10.306 af, Atten= 0%, Lag= 4.8 min

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

Max. Velocity= 5.27 fps, Min. Travel Time= 2.8 min

Avg. Velocity = 1.93 fps, Avg. Travel Time= 7.7 min

Peak Storage= 8,074 cf @ 12.71 hrs

Average Depth at Peak Storage= 0.71', Surface Width= 13.43' Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 883.89 cfs

12.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 20.00'

Length= 890.0' Slope= 0.0562 '/'

Inlet Invert= 1,480.00', Outlet Invert= 1,430.00'

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Summary for Reach 103R: stream

Inflow Area = 93.279 ac, 0.00% Impervious, Inflow Depth = 0.35" for 1-Year event

Inflow = 13.21 cfs @ 12.72 hrs, Volume= 2.719 af

Outflow = 13.18 cfs @ 12.75 hrs, Volume= 2.719 af, Atten= 0%, Lag= 2.0 min

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

Max. Velocity= 4.17 fps, Min. Travel Time= 1.1 min Avg. Velocity = 1.66 fps, Avg. Travel Time= 2.8 min

Peak Storage= 871 cf @ 12.73 hrs

Average Depth at Peak Storage= 0.38', Surface Width= 8.76' Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 440.61 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 275.0' Slope= 0.0800 '/'

Inlet Invert= 1,502.00', Outlet Invert= 1,480.00'



Summary for Reach 104R: stream

Inflow Area = 159.128 ac, 6.53% Impervious, Inflow Depth = 0.38" for 1-Year event

Inflow = 24.50 cfs @ 12.68 hrs, Volume= 5.080 af

Outflow = 24.43 cfs @ 12.72 hrs, Volume= 5.080 af, Atten= 0%, Lag= 2.5 min

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

Max. Velocity= 5.63 fps, Min. Travel Time= 1.5 min

Avg. Velocity = 2.17 fps, Avg. Travel Time= 3.8 min

Peak Storage= 2,152 cf @ 12.70 hrs

Average Depth at Peak Storage= 0.51', Surface Width= 9.02'

Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 495.10 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 495.0' Slope= 0.1010 '/'

Inlet Invert= 1,530.00', Outlet Invert= 1,480.00'

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Summary for Reach 108R: stream

Inflow Area = 93.279 ac, 0.00% Impervious, Inflow Depth = 0.35" for 1-Year event

Inflow = 13.50 cfs @ 12.51 hrs, Volume= 2.719 af

Outflow = 13.21 cfs @ 12.72 hrs, Volume= 2.719 af, Atten= 2%, Lag= 12.2 min

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

Max. Velocity= 5.02 fps, Min. Travel Time= 6.5 min Avg. Velocity = 1.95 fps, Avg. Travel Time= 16.8 min

Peak Storage= 5,187 cf @ 12.61 hrs Average Depth at Peak Storage= 0.32', Surface Width= 8.63'

Bank-Full Depth= 2.00' Flow Area= 20.0 sf, Capacity= 291.19 cfs

 $8.00' \times 2.00'$ deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 12.00'

Length= 1,968.0' Slope= 0.1443 '/'

Inlet Invert= 1,810.00', Outlet Invert= 1,526.00'



Summary for Reach 110R: stream

Inflow Area = 151.593 ac, 4.78% Impervious, Inflow Depth = 0.36" for 1-Year event

Inflow = 23.73 cfs @ 12.61 hrs, Volume= 4.547 af

Outflow = 23.62 cfs @ 12.69 hrs, Volume= 4.547 af, Atten= 0%, Lag= 4.9 min

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

Max. Velocity= 6.80 fps, Min. Travel Time= 2.9 min

Avg. Velocity = 2.75 fps, Avg. Travel Time= 7.1 min

Peak Storage= 4,080 cf @ 12.64 hrs

Average Depth at Peak Storage= 0.53', Surface Width= 7.06'

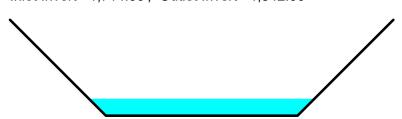
Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 465.00 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 12.00'

Length= 1,175.0' Slope= 0.1464 '/'

Inlet Invert= 1,714.00', Outlet Invert= 1,542.00'



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Summary for Reach 111R: upperstream

Inflow Area = 40.294 ac, 0.90% Impervious, Inflow Depth = 0.35" for 1-Year event

Inflow = 6.35 cfs @ 12.58 hrs, Volume= 1.175 af

Outflow = 6.32 cfs @ 12.64 hrs, Volume= 1.175 af, Atten= 0%, Lag= 3.4 min

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

Max. Velocity= 5.52 fps, Min. Travel Time= 2.1 min Avg. Velocity = 2.41 fps, Avg. Travel Time= 4.7 min

Peak Storage= 787 cf @ 12.60 hrs

Average Depth at Peak Storage= 0.34', Surface Width= 3.69' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 139.11 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 686.0' Slope= 0.1808 '/'

Inlet Invert= 2,074.00', Outlet Invert= 1,950.00'



Summary for Reach 112R: stream

Inflow Area = 72.195 ac, 1.07% Impervious, Inflow Depth = 0.34" for 1-Year event

Inflow = 10.29 cfs @ 12.66 hrs, Volume= 2.026 af

Outflow = 10.21 cfs @ 12.76 hrs, Volume= 2.026 af, Atten= 1%, Lag= 6.2 min

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

Max. Velocity= 5.65 fps, Min. Travel Time= 3.6 min

Avg. Velocity = 2.35 fps, Avg. Travel Time= 8.7 min

Peak Storage= 2,225 cf @ 12.70 hrs

Average Depth at Peak Storage= 0.34', Surface Width= 5.68' Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 210.11 cfs

5.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 9.00'

Length= 1,230.0' Slope= 0.1772 '/'

Inlet Invert= 1,950.00', Outlet Invert= 1,732.00'

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Summary for Link SP1:

Inflow Area = 322.567 ac, 4.49% Impervious, Inflow Depth = 0.39" for 1-Year event

Inflow = 48.51 cfs @ 12.75 hrs, Volume= 10.564 af

Primary = 48.51 cfs @ 12.75 hrs, Volume= 10.564 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP10:

Inflow Area = 0.758 ac, 3.56% Impervious, Inflow Depth = 0.48" for 1-Year event

Inflow = 0.43 cfs @ 12.09 hrs, Volume= 0.031 af

Primary = 0.43 cfs @ 12.09 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP11:

Inflow Area = 16.815 ac, 1.46% Impervious, Inflow Depth = 0.38" for 1-Year event

Inflow = 2.08 cfs @ 13.02 hrs, Volume= 0.534 af

Primary = 2.08 cfs @ 13.02 hrs, Volume= 0.534 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP12:

Inflow Area = 9.755 ac, 2.26% Impervious, Inflow Depth = 0.38" for 1-Year event

Inflow = 2.22 cfs @ 12.37 hrs, Volume= 0.310 af

Primary = 2.22 cfs @ 12.37 hrs, Volume= 0.310 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP13:

Inflow Area = 22.285 ac, 1.05% Impervious, Inflow Depth = 0.32" for 1-Year event

Inflow = 1.86 cfs @ 13.38 hrs, Volume= 0.595 af

Primary = 1.86 cfs @ 13.38 hrs, Volume= 0.595 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP14:

Inflow Area = 3.587 ac, 5.07% Impervious, Inflow Depth = 0.38" for 1-Year event

Inflow = 0.85 cfs @ 12.33 hrs, Volume= 0.114 af

Primary = 0.85 cfs @ 12.33 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP15:

Inflow Area = 37.339 ac, 0.18% Impervious, Inflow Depth = 0.32" for 1-Year event

Inflow = 3.31 cfs @ 13.22 hrs, Volume= 0.997 af

Primary = 3.31 cfs @ 13.22 hrs, Volume= 0.997 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP16:

Inflow Area = 0.416 ac, 18.75% Impervious, Inflow Depth = 0.60" for 1-Year event

Inflow = 0.34 cfs @ 12.05 hrs, Volume= 0.021 af

Primary = 0.34 cfs @ 12.05 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP17:

Inflow Area = 7.386 ac, 2.63% Impervious, Inflow Depth = 0.32" for 1-Year event

Inflow = 1.23 cfs @ 12.42 hrs, Volume= 0.197 af

Primary = 1.23 cfs @ 12.42 hrs, Volume= 0.197 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP18:

Inflow Area = 1.599 ac, 1.31% Impervious, Inflow Depth = 0.29" for 1-Year event

Inflow = 0.29 cfs @ 12.26 hrs, Volume= 0.039 af

Primary = 0.29 cfs @ 12.26 hrs, Volume= 0.039 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP19:

Inflow Area = 7.975 ac, 0.10% Impervious, Inflow Depth = 0.29" for 1-Year event

Inflow = 0.97 cfs @ 12.59 hrs, Volume= 0.194 af

Primary = 0.97 cfs @ 12.59 hrs, Volume= 0.194 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP2:

Inflow Area = 4.825 ac, 1.45% Impervious, Inflow Depth = 0.45" for 1-Year event

Inflow = 1.17 cfs @ 12.48 hrs, Volume= 0.180 af

Primary = 1.17 cfs @ 12.48 hrs, Volume= 0.180 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP20:

Inflow Area = 40.004 ac, 3.65% Impervious, Inflow Depth = 0.35" for 1-Year event

Inflow = 5.73 cfs @ 12.67 hrs, Volume= 1.166 af

Primary = 5.73 cfs @ 12.67 hrs, Volume= 1.166 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP21:

Inflow Area = 6.228 ac, 0.32% Impervious, Inflow Depth = 0.32" for 1-Year event

Inflow = 0.98 cfs @ 12.46 hrs, Volume= 0.166 af

Primary = 0.98 cfs @ 12.46 hrs, Volume= 0.166 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP22:

Inflow Area = 7.516 ac, 0.98% Impervious, Inflow Depth = 0.45" for 1-Year event

Inflow = 1.73 cfs @ 12.54 hrs, Volume= 0.281 af

Primary = 1.73 cfs @ 12.54 hrs, Volume= 0.281 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP23:

Inflow Area = 2.642 ac, 1.48% Impervious, Inflow Depth = 0.41" for 1-Year event

Inflow = 0.79 cfs @ 12.27 hrs, Volume= 0.091 af

Primary = 0.79 cfs @ 12.27 hrs, Volume= 0.091 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP24:

Inflow Area = 10.169 ac. 4.49% Impervious, Inflow Depth = 0.48" for 1-Year event

Inflow = 2.47 cfs @ 12.57 hrs, Volume= 0.410 af

Primary = 2.47 cfs @ 12.57 hrs, Volume= 0.410 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP3:

Inflow Area = 1.513 ac, 4.49% Impervious, Inflow Depth = 0.48" for 1-Year event

Inflow = 0.75 cfs @ 12.13 hrs, Volume= 0.061 af

Primary = 0.75 cfs @ 12.13 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP4:

Inflow Area = 58.640 ac, 0.49% Impervious, Inflow Depth = 0.39" for 1-Year event

Inflow = 8.21 cfs @ 12.13 hrs, Volume= 1.917 af

Primary = 8.21 cfs @ 12.13 hrs, Volume= 1.917 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP5:

Inflow Area = 3.053 ac, 0.39% Impervious, Inflow Depth = 0.45" for 1-Year event

Inflow = 0.89 cfs @ 12.34 hrs, Volume= 0.114 af

Primary = 0.89 cfs @ 12.34 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP6:

Inflow Area = 29.113 ac, 0.99% Impervious, Inflow Depth = 0.41" for 1-Year event

Inflow = 6.92 cfs @ 12.42 hrs, Volume= 1.004 af

Primary = 6.92 cfs @ 12.42 hrs, Volume= 1.004 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP7:

Inflow Area = 26.547 ac, 0.94% Impervious, Inflow Depth = 0.41" for 1-Year event

Inflow = 5.26 cfs @ 12.57 hrs, Volume= 0.915 af

Primary = 5.26 cfs @ 12.57 hrs, Volume= 0.915 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP8:

Inflow Area = 0.343 ac. 19.24% Impervious, Inflow Depth = 0.60" for 1-Year event

Inflow = 0.40 cfs @ 11.92 hrs, Volume= 0.017 af

Primary = 0.40 cfs @ 11.92 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP9:

Inflow Area = 8.117 ac, 2.27% Impervious, Inflow Depth = 0.38" for 1-Year event

Inflow = 1.41 cfs @ 12.60 hrs, Volume= 0.258 af

Primary = 1.41 cfs @ 12.60 hrs, Volume= 0.258 af, Atten= 0%, Lag= 0.0 min

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment70S: WS1	Runoff Area=3.816 ac 0.50% Impervious Runoff Depth=0.68" Flow Length=1,200' Tc=20.2 min CN=77 Runoff=2.62 cfs 0.216 af
Subcatchment72S: WS2	Runoff Area=4.825 ac 1.45% Impervious Runoff Depth=0.68" Flow Length=1,847' Tc=44.0 min CN=77 Runoff=1.93 cfs 0.273 af
Subcatchment73S: WS3	Runoff Area=1.513 ac 4.49% Impervious Runoff Depth=0.72" Flow Length=681' Tc=18.2 min CN=78 Runoff=1.20 cfs 0.091 af
Subcatchment74S: WS4	Runoff Area=20.325 ac 1.41% Impervious Runoff Depth=0.63" Flow Length=3,739' Tc=18.0 min CN=76 Runoff=13.77 cfs 1.075 af
Subcatchment75S: WS5	Runoff Area=3.053 ac 0.39% Impervious Runoff Depth=0.68" Flow Length=1,271' Tc=33.9 min CN=77 Runoff=1.48 cfs 0.173 af
Subcatchment76S: WS6	Runoff Area=29.113 ac 0.99% Impervious Runoff Depth=0.63" Flow Length=4,403' Tc=38.7 min CN=76 Runoff=11.72 cfs 1.540 af
Subcatchment77S: WS7	Runoff Area=26.547 ac 0.94% Impervious Runoff Depth=0.63" Flow Length=4,636' Tc=49.7 min CN=76 Runoff=8.91 cfs 1.404 af
Subcatchment78S: WS8	Runoff Area=0.343 ac 19.24% Impervious Runoff Depth=0.87" Flow Length=327' Tc=1.4 min CN=81 Runoff=0.58 cfs 0.025 af
Subcatchment79S: WS9	Runoff Area=8.117 ac 2.27% Impervious Runoff Depth=0.59" Flow Length=2,783' Tc=50.5 min CN=75 Runoff=2.45 cfs 0.401 af
Subcatchment80S: WS10	Runoff Area=0.758 ac 3.56% Impervious Runoff Depth=0.72" Flow Length=424' Tc=14.8 min CN=78 Runoff=0.67 cfs 0.046 af
Subcatchment81S: WS11	Runoff Area=16.815 ac 1.46% Impervious Runoff Depth=0.59" Flow Length=4,402' Tc=80.4 min CN=75 Runoff=3.60 cfs 0.831 af
Subcatchment82S: WS12	Runoff Area=9.755 ac 2.26% Impervious Runoff Depth=0.59" Flow Length=2,300' Tc=34.7 min CN=75 Runoff=3.87 cfs 0.482 af
Subcatchment83S: WS13	Runoff Area=22.285 ac 1.05% Impervious Runoff Depth=0.51" Flow Length=6,015' Tc=100.4 min CN=73 Runoff=3.35 cfs 0.955 af
Subcatchment84S: WS14	Runoff Area=3.587 ac 5.07% Impervious Runoff Depth=0.59" Flow Length=1,401' Tc=32.5 min CN=75 Runoff=1.49 cfs 0.177 af
Subcatchment85S: WS15	Runoff Area=37.339 ac 0.18% Impervious Runoff Depth=0.51" Flow Length=6,278' Tc=92.0 min CN=73 Runoff=5.99 cfs 1.601 af
Subcatchment86S: WS16	Runoff Area=0.416 ac 18.75% Impervious Runoff Depth=0.87" Flow Length=267' Tc=11.9 min CN=81 Runoff=0.51 cfs 0.030 af

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Subcatchment87S: WS17	Runoff Area=7.386 ac 2.63% Impervious Runoff Depth=0.51" Flow Length=2,290' Tc=37.1 min CN=73 Runoff=2.29 cfs 0.317 af
Subcatchment88S: WS18	Runoff Area=1.599 ac 1.31% Impervious Runoff Depth=0.48" Flow Length=978' Tc=26.1 min CN=72 Runoff=0.57 cfs 0.064 af
Subcatchment89S: WS20	Runoff Area=40.004 ac 3.65% Impervious Runoff Depth=0.55" Flow Length=4,364' Tc=55.5 min CN=74 Runoff=10.25 cfs 1.843 af
Subcatchment90S: WS21	Runoff Area=6.228 ac 0.32% Impervious Runoff Depth=0.51" Flow Length=1,797' Tc=39.9 min CN=73 Runoff=1.83 cfs 0.267 af
Subcatchment91S: WS22	Runoff Area=7.516 ac 0.98% Impervious Runoff Depth=0.68" Flow Length=2,111' Tc=47.3 min CN=77 Runoff=2.86 cfs 0.425 af
Subcatchment92S: WS23	Runoff Area=2.642 ac 1.48% Impervious Runoff Depth=0.63" Flow Length=1,122' Tc=28.3 min CN=76 Runoff=1.33 cfs 0.140 af
Subcatchment93S: WS1A	Runoff Area=3.076 ac 0.00% Impervious Runoff Depth=0.68" Flow Length=821' Tc=28.5 min CN=77 Runoff=1.68 cfs 0.174 af
Subcatchment94S: WS1B	Runoff Area=8.471 ac 5.02% Impervious Runoff Depth=0.72" Flow Length=2,480' Tc=14.1 min CN=78 Runoff=7.71 cfs 0.511 af
Subcatchment95S: WS1C	Runoff Area=17.349 ac 18.91% Impervious Runoff Depth=0.87" Flow Length=3,667' Tc=47.4 min CN=81 Runoff=9.04 cfs 1.260 af
Subcatchment96S: WS1D	Runoff Area=79.398 ac 8.16% Impervious Runoff Depth=0.59" Flow Length=6,450' Tc=43.6 min CN=75 Runoff=26.72 cfs 3.923 af
Subcatchment97S: WS24	Runoff Area=10.169 ac 4.49% Impervious Runoff Depth=0.72" Flow Length=2,477' Tc=51.1 min CN=78 Runoff=3.98 cfs 0.613 af
Subcatchment98S: WS19	Runoff Area=7.975 ac 0.10% Impervious Runoff Depth=0.48" Flow Length=2,264' Tc=47.0 min CN=72 Runoff=1.86 cfs 0.317 af
Subcatchment103S: WS 1CA	Runoff Area=7.535 ac 41.66% Impervious Runoff Depth=1.16" Flow Length=949' Tc=10.1 min CN=86 Runoff=13.22 cfs 0.730 af
Subcatchment106S: WS 1G	Runoff Area=33.788 ac 0.01% Impervious Runoff Depth=0.55" Flow Length=4,645' Tc=34.6 min CN=74 Runoff=12.21 cfs 1.557 af
Subcatchment107S: WS 1H	Runoff Area=59.491 ac 0.00% Impervious Runoff Depth=0.55" Flow Length=4,804' Tc=55.9 min CN=74 Runoff=15.09 cfs 2.741 af
Subcatchment108S: WS1F	Runoff Area=40.294 ac 0.90% Impervious Runoff Depth=0.55" Flow Length=4,191' Tc=48.6 min CN=74 Runoff=11.36 cfs 1.856 af
Subcatchment110S: WS1E	Runoff Area=31.901 ac 1.29% Impervious Runoff Depth=0.51" Flow Length=4,125' Tc=55.4 min CN=73 Runoff=7.37 cfs 1.367 af

Type II 24-hr 2-Year Rainfall=2.40"

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Subcatchment111S: WS4ARunoff Area=38.315 ac 0.00% Impervious Runoff Depth=0.59"
Flow Length=3,929' Tc=63.9 min CN=75 Runoff=9.70 cfs 1.893 af

Flow Length-3,929 10-63.9 min CN-75 Runon-9.70 dis 1.693 a

Subcatchment142S: WS1I Runoff Area=15.102 ac 0.81% Impervious Runoff Depth=0.63" Flow Length=3,069' Tc=31.2 min CN=76 Runoff=7.10 cfs 0.799 af

Subcatchment143S: WS1J Runoff Area=22.346 ac 1.03% Impervious Runoff Depth=0.63" Flow Length=3,101' Tc=25.4 min CN=76 Runoff=12.11 cfs 1.182 af

Reach 40R: streamAvg. Flow Depth=0.34' Max Vel=4.36 fps Inflow=9.51 cfs 1.893 af n=0.050 L=770.0' S=0.1013 '/' Capacity=186.92 cfs Outflow=9.49 cfs 1.893 af

Reach 42R: streamAvg. Flow Depth=0.33' Max Vel=5.37 fps Inflow=9.70 cfs 1.893 af n=0.050 L=2,440.0' S=0.1639'/' Capacity=60.47 cfs Outflow=9.51 cfs 1.893 af

Reach 102R: streamAvg. Flow Depth=1.01' Max Vel=6.47 fps Inflow=84.89 cfs 15.927 af n=0.050 L=890.0' S=0.0562 '/' Capacity=883.89 cfs Outflow=84.53 cfs 15.927 af

Reach 103R: streamAvg. Flow Depth=0.54' Max Vel=5.18 fps Inflow=23.91 cfs 4.297 af n=0.050 L=275.0' S=0.0800'/' Capacity=440.61 cfs Outflow=23.87 cfs 4.297 af

Reach 104R: streamAvg. Flow Depth=0.72' Max Vel=6.93 fps Inflow=43.72 cfs 7.877 af n=0.050 L=495.0' S=0.1010 '/' Capacity=495.10 cfs Outflow=43.60 cfs 7.877 af

Reach 108R: stream Avg. Flow Depth=0.45' Max Vel=6.26 fps Inflow=24.29 cfs 4.297 af

n=0.050 L=1,968.0' S=0.1443 '/' Capacity=291.19 cfs Outflow=23.91 cfs 4.297 af

Reach 110R: streamAvg. Flow Depth=0.76' Max Vel=8.33 fps Inflow=42.71 cfs 7.147 af n=0.050 L=1,175.0' S=0.1464 '/' Capacity=465.00 cfs Outflow=42.48 cfs 7.147 af

Reach 111R: upperstreamAvg. Flow Depth=0.49' Max Vel=6.71 fps Inflow=11.36 cfs 1.856 af n=0.050 L=686.0' S=0.1808 '/' Capacity=139.11 cfs Outflow=11.32 cfs 1.856 af

Reach 112R: streamAvg. Flow Depth=0.48' Max Vel=6.99 fps Inflow=18.65 cfs 3.224 af n=0.050 L=1,230.0' S=0.1772 '/' Capacity=210.11 cfs Outflow=18.57 cfs 3.224 af

Link SP1:Inflow=85.81 cfs 16.317 af
Primary=85.81 cfs 16.317 af

Link SP10:Inflow=0.67 cfs 0.046 af
Primary=0.67 cfs 0.046 af

Link SP11:Inflow=3.60 cfs 0.831 af
Primary=3.60 cfs 0.831 af

Link SP12: Inflow=3.87 cfs 0.482 af Primary=3.87 cfs 0.482 af

Link SP13: Inflow=3.35 cfs 0.955 af Primary=3.35 cfs 0.955 af

Inflow=11.72 cfs 1.540 af Primary=11.72 cfs 1.540 af

Inflow=8.91 cfs 1.404 af Primary=8.91 cfs 1.404 af

55310.01-West Mountain-EX Type II 24-hr 2-Year Rainfall=2.40" Prepared by VHB Printed 9/24/2021 HydroCAD® 10.10-5a s/n 01038 © 2020 HydroCAD Software Solutions LLC Page 56 Link SP14: Inflow=1.49 cfs 0.177 af Primary=1.49 cfs 0.177 af Link SP15: Inflow=5.99 cfs 1.601 af Primary=5.99 cfs 1.601 af Link SP16: Inflow=0.51 cfs 0.030 af Primary=0.51 cfs 0.030 af Link SP17: Inflow=2.29 cfs 0.317 af Primary=2.29 cfs 0.317 af Inflow=0.57 cfs 0.064 af Link SP18: Primary=0.57 cfs 0.064 af Link SP19: Inflow=1.86 cfs 0.317 af Primary=1.86 cfs 0.317 af Link SP2: Inflow=1.93 cfs 0.273 af Primary=1.93 cfs 0.273 af Link SP20: Inflow=10.25 cfs 1.843 af Primary=10.25 cfs 1.843 af Inflow=1.83 cfs 0.267 af Link SP21: Primary=1.83 cfs 0.267 af Inflow=2.86 cfs 0.425 af Link SP22: Primary=2.86 cfs 0.425 af Link SP23: Inflow=1.33 cfs 0.140 af Primary=1.33 cfs 0.140 af Link SP24: Inflow=3.98 cfs 0.613 af Primary=3.98 cfs 0.613 af Link SP3: Inflow=1.20 cfs 0.091 af Primary=1.20 cfs 0.091 af Link SP4: Inflow=13.77 cfs 2.969 af Primary=13.77 cfs 2.969 af Inflow=1.48 cfs 0.173 af Link SP5: Primary=1.48 cfs 0.173 af

Link SP6:

Link SP7:

Type II 24-hr 2-Year Rainfall=2.40"

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Link SP8: Inflow=0.58 cfs 0.025 af

Primary=0.58 cfs 0.025 af

Link SP9:Inflow=2.45 cfs 0.401 af
Primary=2.45 cfs 0.401 af

Total Runoff Area = 629.192 ac Runoff Volume = 31.300 af Average Runoff Depth = 0.60" 96.98% Pervious = 610.171 ac 3.02% Impervious = 19.021 ac

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Summary for Subcatchment 70S: WS1

Runoff 2.62 cfs @ 12.15 hrs, Volume= 0.216 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 2-Year Rainfall=2.40"

Area	(ac) C	N Desc	cription					
0.	0.019 98 Existing impervious, HSG D							
0.	032				azed, HSG D			
3.	765	77 Exis	ting Wood	s, Good, H	SG D			
3.	816 7	77 Weig	ghted Aver	age				
3.	797	99.5	0% Pervio	us Area				
0.	019	0.50	% Impervi	ous Area				
Tc	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
10.9	38	0.0900	0.06		Sheet Flow,			
					Woods: Dense underbrush n= 0.800 P2= 2.40"			
8.0	358	0.0900	0.75		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
0.5	299	0.0600	9.68	232.28	Trap/Vee/Rect Channel Flow,			
					Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00'			
					n= 0.050 Mountain streams w/large boulders			
0.8	505	0.0600	10.15	345.05	Trap/Vee/Rect Channel Flow,			
					Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'			
					n= 0.050 Mountain streams w/large boulders			
20.2	1,200	Total						

1,200 Total

Summary for Subcatchment 72S: WS2

1.93 cfs @ 12.46 hrs, Volume= 0.273 af, Depth= 0.68" Runoff

 Area (ac)	CN	Description
0.070	98	Existing impervious, HSG D
0.750	78	Existing meadow, non-grazed, HSG D
 4.005	77	Existing Woods, Good, HSG D
4.825	77	Weighted Average
4.755		98.55% Pervious Area
0.070		1.45% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	49	0.1600	0.08	(010)	Sheet Flow,
.0.0	.0	0000	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"
5.8	349	0.1600	1.00		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.5	156	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.6	279	0.1100	0.83		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.4	154	0.0900	0.75		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
7.5	339	0.0900	0.75		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
8.3	374	0.0900	0.75		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.3	147	0.0300	8.52	25.56	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022 Earth, clean & straight
44.0	1,847	Total			

Summary for Subcatchment 73S: WS3

Runoff = 1.20 cfs @ 12.12 hrs, Volume= 0.091 af, Depth= 0.72"

Area	(ac) C	N Des	cription					
0.	0.068 98 Existing impervious, HSG D							
	0.254 78 Existing meadow, non-grazed, HSG D							
1.	.191 7	7 Exis	ting Wood	s, Good, H	SG D			
		•	ghted Aver	•				
	.445		1% Pervio					
0.	.068	4.49	% Impervi	ous Area				
To	Longth	Slope	Volocity	Canacity	Description			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description			
11.0	36	0.0800	0.05	(013)	Sheet Flow,			
11.0	30	0.0000	0.03		Woods: Dense underbrush n= 0.800 P2= 2.40"			
1.4	60	0.0800	0.71		Shallow Concentrated Flow,			
•••		0.0000	0		Forest w/Heavy Litter Kv= 2.5 fps			
1.6	97	0.1600	1.00		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
3.8	169	0.0900	0.75		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
0.4	319	0.0700	13.01	39.04	Trap/Vee/Rect Channel Flow,			
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
					n= 0.022 Earth, clean & straight			
18.2	681	Total						

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Summary for Subcatchment 74S: WS4

Runoff = 13.77 cfs @ 12.12 hrs, Volume= 1.075 af, Depth= 0.63"

Area	(ac) C	N Des	cription						
0.	287 9	B7 98 Existing impervious, HSG D							
0.	739 7	'1 Exis	ting mead	ow, non-gra	azed, HSG C				
1.	1.095 78 Existing meadow, non-grazed, HSG D								
2.	883 7	0 Exis	ting Wood	s, Good, H	SG C				
15.	321 7			s, Good, H	SG D				
			ghted Avei						
	038		9% Pervio						
0.	287	1.41	% Impervi	ous Area					
_		0.1							
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
10.8	56	0.2000	0.09		Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
2.4	164	0.2000	1.12		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
0.5	417	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.7	544	0.1800	13.88	138.82	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
1.0	711	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.5	404	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/ Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.4	338	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/ Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.6	432	0.1200	11.33	113.34	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.8	424	0.0800	9.25	92.55	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.3	249	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,				
0.0	0	300	(10	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
18.0	3,739	Total			0.000 mountain on our no margo bouldoro				
10.0	0,700	iotai							

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Summary for Subcatchment 75S: WS5

Runoff = 1.48 cfs @ 12.32 hrs, Volume= 0.173 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 2-Year Rainfall=2.40"

Area	(ac) C	N Desc	cription						
0.	0.012 98 Existing impervious, HSG D								
0.	0.032 78 Existing meadow, non-grazed, HSG D								
3.	009 7	7 Exist	ting Wood	s, Good, H	SG D				
3.	053 7	7 Weig	hted Aver	age					
3.	041	99.6	1% Pervio	us Area					
0.	012	0.39	% Impervi	ous Area					
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
11.0	36	0.0800	0.05		Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
8.0	35	0.0800	0.71		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
2.5	169	0.2000	1.12		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
5.7	271	0.1000	0.79		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
4.3	240	0.1400	0.94		Shallow Concentrated Flow,				
0.4	0.45	0.0000	0.74		Forest w/Heavy Litter Kv= 2.5 fps				
8.1	345	0.0800	0.71		Shallow Concentrated Flow,				
4.4	0.7	0.4700	4.00		Forest w/Heavy Litter Kv= 2.5 fps				
1.4	87	0.1700	1.03		Shallow Concentrated Flow,				
0.1	00	0.4400	18.40	55.21	Forest w/Heavy Litter Kv= 2.5 fps				
0.1	88	0.1400	10.40	33.21	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.022 Earth, clean & straight				
22.0	1 071	Total			11- 0.022 Laitti, Olean & Straight				
33.9	1,271	Total							

Summary for Subcatchment 76S: WS6

Runoff = 11.72 cfs @ 12.39 hrs, Volume= 1.540 af, Depth= 0.63"

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Area	Area (ac) CN Description									
0.	0.537 71 Existing meadow, non-grazed, HSG C									
3.	855 7	0 Exis	ting Wood	s, Good, H	SG C					
				vious, HSG						
	3.372 78 Existing meadow, non-grazed, HSG D									
21.	21.062 77 Existing Woods, Good, HSG D									
			ghted Aver							
	826		1% Pervio							
0.	287	0.99	% Impervi	ous Area						
_										
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.8	50	0.1600	0.08		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
0.2	10	0.1600	1.00		Shallow Concentrated Flow,					
	–				Forest w/Heavy Litter Kv= 2.5 fps					
2.0	145	0.2300	1.20		Shallow Concentrated Flow,					
0.7	000	0.4400	0.00		Forest w/Heavy Litter Kv= 2.5 fps					
6.7	333	0.1100	0.83		Shallow Concentrated Flow,					
0.0	444	0.0000	0.75		Forest w/Heavy Litter Kv= 2.5 fps					
9.8	441	0.0900	0.75		Shallow Concentrated Flow,					
4.0	200	0.4600	1.00		Forest w/Heavy Litter Kv= 2.5 fps					
4.8	290	0.1600	1.00		Shallow Concentrated Flow,					
0.3	290	0.2200	15.35	153.47	Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow,					
0.3	290	0.2200	15.55	155.47	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'					
					n= 0.050 Mountain streams w/large boulders					
0.8	681	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,					
0.0	001	0.1000	14.20	142.02	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'					
					n= 0.050 Mountain streams w/large boulders					
0.5	418	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,					
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'					
					n= 0.050 Mountain streams w/large boulders					
1.0	729	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,					
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'					
					n= 0.050 Mountain streams w/large boulders					
0.7	465	0.1300	11.80	117.97	Trap/Vee/Rect Channel Flow,					
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'					
					n= 0.050 Mountain streams w/large boulders					
1.0	466	0.0600	8.01	80.15	Trap/Vee/Rect Channel Flow,					
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'					
<u>.</u> .					n= 0.050 Mountain streams w/large boulders					
0.1	85	0.0500	11.00	32.99	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
38.7	4,403	Total								

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Summary for Subcatchment 77S: WS7

Runoff = 8.91 cfs @ 12.55 hrs, Volume= 1.404 af, Depth= 0.63"

 Area (ac)	CN	Description
0.688	71	Existing meadow, non-grazed, HSG C
5.100	70	Existing Woods, Good, HSG C
0.250	98	Existing impervious, HSG D
3.025	78	Existing meadow, non-grazed, HSG D
 17.484	77	Existing Woods, Good, HSG D
26.547	76	Weighted Average
26.297		99.06% Pervious Area
0.250		0.94% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	64	0.2700	0.10		Sheet Flow,
4.0	0.40	0.0700	4.00		Woods: Dense underbrush n= 0.800 P2= 2.40"
4.0	312	0.2700	1.30		Shallow Concentrated Flow,
5.8	360	0.1700	1.03		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
5.0	300	0.1700	1.03		Forest w/Heavy Litter Kv= 2.5 fps
12.6	565	0.0900	0.75		Shallow Concentrated Flow,
12.0	000	0.0000	0.70		Forest w/Heavy Litter Kv= 2.5 fps
11.0	406	0.0600	0.61		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.9	185	0.4100	1.60		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.3	324	0.3000	17.92	179.21	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.0	070	0.4000	44.00	4.40.00	n= 0.050 Mountain streams w/large boulders
0.3	279	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.4	330	0.1500	12.67	126.72	n= 0.050 Mountain streams w/large boulders Trap/Vee/Rect Channel Flow,
0.4	330	0.1300	12.07	120.72	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.3	224	0.1100	10.85	108.52	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.2	139	0.1200	11.33	113.34	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.4	287	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.5	204	0.4400	40.04	400.40	n= 0.050 Mountain streams w/large boulders
0.5	361	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.6	417	0.1100	10.85	108.52	Trap/Vee/Rect Channel Flow,
0.0	717	0.1100	10.00	100.52	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.6	253	0.0500	7.32	73.16	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.1	130	0.0800	21.03	210.33	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.022 Earth, clean & straight
49.7	4,636	Total			

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Summary for Subcatchment 78S: WS8

Runoff 0.58 cfs @ 11.91 hrs, Volume= 0.025 af, Depth= 0.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 2-Year Rainfall=2.40"

	Area	(ac) C	N Des	Description						
	0.066 98 Existing impervious, HSG D									
	0.	047				azed, HSG D				
_	0.	230	77 Exis	ting Wood	s, Good, H	SG D				
	0.	343		ghted Aver						
		277		6% Pervio						
	0.	066	19.2	4% Imper	vious Area					
	_									
	Tc	Length	•	Velocity	Capacity	Description				
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	8.0	40	0.1000	0.79		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	0.2	11	0.1000	0.79		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	0.4	276	0.0600	12.05	36.14					
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
_						n= 0.022 Earth, clean & straight				
	1.4	327	Total							

Summary for Subcatchment 79S: WS9

Runoff 2.45 cfs @ 12.57 hrs, Volume= 0.401 af, Depth= 0.59"

_	Area (ac)	CN	Description
	0.078	71	Existing meadow, non-grazed, HSG C
	2.614	70	Existing Woods, Good, HSG C
	0.184	98	Existing impervious, HSG D
	0.343	78	Existing meadow, non-grazed, HSG D
_	4.898	77	Existing Woods, Good, HSG D
	8.117	75	Weighted Average
	7.933		97.73% Pervious Area
	0.184		2.27% Impervious Area

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_ (mi		Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10	.5	27	0.0500	0.04		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
8	.4	283	0.0500	0.56		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
7	.3	583	0.2800	1.32		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
6	.0	403	0.2000	1.12		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
9	.2	554	0.1600	1.00		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
2	.2	172	0.2700	1.30		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
6	.5	350	0.1300	0.90		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
0	.4	411	0.1000	15.55	46.66	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022 Earth, clean & straight
50	.5	2,783	Total			

Summary for Subcatchment 80S: WS10

Runoff = 0.67 cfs @ 12.08 hrs, Volume= 0.046 af, Depth= 0.72"

Area	(ac) C	N Des	cription				
0.	0.027 98		Existing impervious, HSG D				
0.	044 7				azed, HSG D		
0.	687 7			s, Good, H			
	758 7	'8 Weid	hted Aver	age			
_	731	•	4% Pervio	0			
_	027		% Impervi				
0.	02.	0.00	, opo	040704			
Tc	Length	Slope	Velocity	Capacity	Description		
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	2		
10.8	70	0.3100	0.11	,	Sheet Flow,		
	. •	0.0.00	• • • • • • • • • • • • • • • • • • • •		Woods: Dense underbrush n= 0.800 P2= 2.40"		
0.8	65	0.3100	1.39		Shallow Concentrated Flow,		
0.0		0.0.00			Forest w/Heavy Litter Kv= 2.5 fps		
3.1	187	0.1600	1.00		Shallow Concentrated Flow,		
0		0000			Forest w/Heavy Litter Kv= 2.5 fps		
0.1	102	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow,		
U. 1		3200		J 1	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'		
					n= 0.022 Earth, clean & straight		
14.8	424	Total			,		

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Summary for Subcatchment 81S: WS11

Runoff = 3.60 cfs @ 12.97 hrs, Volume= 0.831 af, Depth= 0.59"

_	Area	(ac) C	N Des	cription						
	0	245 9	8 Exis							
				Existing meadow, non-grazed, HSG C						
				Existing meadow, non-grazed, HSG D						
				Existing Woods, Good, HSG C						
_					s, Good, H	SG D				
				ghted Aver						
		570		4% Pervio						
	0	245	1.46	% Impervi	ous Area					
	т.	1	Ol	\	0	Description				
	Tc	Length	Slope	Velocity	Capacity	Description				
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	10.8	65	0.2700	0.10		Sheet Flow,				
	4 -	000	0.0700	4.00		Woods: Dense underbrush n= 0.800 P2= 2.40"				
	4.7	366	0.2700	1.30		Shallow Concentrated Flow,				
	0.4	507	0.4500	0.07		Forest w/Heavy Litter Kv= 2.5 fps				
	9.1	527	0.1500	0.97		Shallow Concentrated Flow,				
	5.5	398	0.2300	1.20		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,				
	5.5	390	0.2300	1.20		Forest w/Heavy Litter Kv= 2.5 fps				
	17.0	763	0.0900	0.75		Shallow Concentrated Flow,				
	17.0	700	0.0000	0.70		Forest w/Heavy Litter Kv= 2.5 fps				
	3.6	211	0.1500	0.97		Shallow Concentrated Flow,				
	0.0			0.0.		Forest w/Heavy Litter Kv= 2.5 fps				
	5.2	377	0.2300	1.20		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	8.2	506	0.1700	1.03		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	5.2	368	0.2200	1.17		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	4.9	220	0.0900	0.75		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	6.1	401	0.1900	1.09		Shallow Concentrated Flow,				
	0.4	000	0.0000	00.04	000.00	Forest w/Heavy Litter Kv= 2.5 fps				
	0.1	200	0.0900	22.31	223.09	Trap/Vee/Rect Channel Flow,				
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
_		4 400				n= 0.022 Earth, clean & straight				
	80.4	4,402	Total							

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Summary for Subcatchment 82S: WS12

Runoff = 3.87 cfs @ 12.35 hrs, Volume= 0.482 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 2-Year Rainfall=2.40"

Area	(ac) C	N Desc	cription			
0.280 71 Existing meadow, non-grazed, HSG C						
3.976 70 Existing Woods, Good, HSG C						
0.	220 9	8 Exis	ting imper	vious, HSG	D	
1.	035 7	'8 Exis	ting mead	ow, non-gra	azed, HSG D	
4.	244 7	77 Exist	ting Wood	s, Good, H	SG D	
9.	755 7	'5 Weig	ghted Aver	age		
	535	97.7	4% Pervio	us Area		
0.	220	2.26	% Impervi	ous Area		
_					—	
Tc	Length	Slope	Velocity	Capacity	Description	
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		
10.7	41	0.1100	0.06		Sheet Flow,	
					Woods: Dense underbrush n= 0.800 P2= 2.40"	
6.4	320	0.1100	0.83		Shallow Concentrated Flow,	
					Forest w/Heavy Litter Kv= 2.5 fps	
8.0	562	0.2200	1.17		Shallow Concentrated Flow,	
4 -	200	0.4700	4.00		Forest w/Heavy Litter Kv= 2.5 fps	
4.7	290	0.1700	1.03		Shallow Concentrated Flow,	
0.0	004	0.0400	4.00		Forest w/Heavy Litter Kv= 2.5 fps	
3.8	281	0.2400	1.22		Shallow Concentrated Flow,	
0.0	004	0.4000	40.00	400.00	Forest w/Heavy Litter Kv= 2.5 fps	
0.3	261	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,	
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'	
0.4	284	0.1700	13.49	124.04	n= 0.050 Mountain streams w/large boulders	
0.4	204	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,	
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'	
0.4	261	0.0500	11.00	32.99	n= 0.050 Mountain streams w/large boulders Trap/Vee/Rect Channel Flow,	
0.4	201	0.0000	11.00	32.99	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'	
					n= 0.022 Earth, clean & straight	
247	2 200	Total			11- 0.022 Laitii, Geail & Straight	
34.7	2,300	Total				

Summary for Subcatchment 83S: WS13

Runoff = 3.35 cfs @ 13.30 hrs, Volume= 0.955 af, Depth= 0.51"

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Area	(ac) C	N Desc	cription					
	4.203 71 Existing meadow, non-grazed, HSG C							
9.072 70 Existing Woods, Good, HSG C								
0.235 98 Existing impervious, HSG D 1.694 78 Existing meadow, non-grazed, HSG D								
1.	azed, HSG D							
				s, Good, H	SG D			
			hted Aver					
	050		5% Pervio					
0.	235	1.05	% Impervi	ous Area				
Тс	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Description			
10.8	76	0.3700	0.12	(0.0)	Sheet Flow,			
10.0	70	0.0700	0.12		Woods: Dense underbrush n= 0.800 P2= 2.40"			
5.9	537	0.3700	1.52		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
6.5	448	0.2100	1.15		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
9.2	645	0.2200	1.17		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
6.6	497	0.2500	1.25		Shallow Concentrated Flow,			
0.0	500	0.4500	0.07		Forest w/Heavy Litter Kv= 2.5 fps			
9.2	536	0.1500	0.97		Shallow Concentrated Flow,			
6.2	434	0.2200	1.17		Forest w/Heavy Litter Kv= 2.5 fps			
0.2	434	0.2200	1.17		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps			
15.1	714	0.1000	0.79		Shallow Concentrated Flow,			
10.1	7 17	0.1000	0.73		Forest w/Heavy Litter Kv= 2.5 fps			
10.2	649	0.1800	1.06		Shallow Concentrated Flow,			
	0.0				Forest w/Heavy Litter Kv= 2.5 fps			
9.9	645	0.1900	1.09		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
4.5	307	0.2100	1.15		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
5.8	328	0.1400	0.94		Shallow Concentrated Flow,			
0.5	400	0.0000	0.00	00.67	Forest w/Heavy Litter Kv= 2.5 fps			
0.5	199	0.0200	6.96	20.87	Trap/Vee/Rect Channel Flow,			
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
400.4	0.045	Takal			n= 0.022 Earth, clean & straight			
100.4	6,015	Total						

Summary for Subcatchment 84S: WS14

Runoff = 1.49 cfs @ 12.31 hrs, Volume= 0.177 af, Depth= 0.59"

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Area	(ac) C	N Desc	cription					
0.	.691 7	'1 Exist	ing mead	ow, non-gra	azed, HSG C			
0.959 70 Existing Woods, Good, HSG C								
0.182 98 Existing impervious, HSG D								
					azed, HSG D			
1	.524 7	7 Exist	ting Wood	s, Good, H	SG D			
3.	.587 7		hted Aver					
	.405		3% Pervio					
0.	.182	5.07	% Impervi	ous Area				
_								
Tc	Length	Slope	Velocity		Description			
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)				
10.8	45	0.1300	0.07		Sheet Flow,			
0.4	•	0.4000	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"			
0.1	8	0.1300	0.90		Shallow Concentrated Flow,			
5.1	250	0.2100	1.15		Forest w/Heavy Litter Kv= 2.5 fps			
5.1	350	0.2100	1.15		Shallow Concentrated Flow,			
5.8	313	0.1300	0.90		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,			
5.0	313	0.1300	0.90		Forest w/Heavy Litter Kv= 2.5 fps			
4.2	294	0.2200	1.17		Shallow Concentrated Flow,			
7.2	204	0.2200	1.17		Forest w/Heavy Litter Kv= 2.5 fps			
3.0	168	0.1400	0.94		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
3.4	163	0.1000	0.79		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
0.1	60	0.0500	11.00	32.99	Trap/Vee/Rect Channel Flow,			
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
					n= 0.022 Earth, clean & straight			
32.5	1,401	Total						

Summary for Subcatchment 85S: WS15

Runoff = 5.99 cfs @ 13.20 hrs, Volume= 1.601 af, Depth= 0.51"

Area (ac)	CN	Description
8.870	71	Existing meadow, non-grazed, HSG C
16.898	70	Existing Woods, Good, HSG C
0.067	98	Existing impervious, HSG D
2.332	78	Existing meadow, non-grazed, HSG D
9.172	77	Existing Woods, Good, HSG D
37.339	73	Weighted Average
37.272		99.82% Pervious Area
0.067		0.18% Impervious Area

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	Тс	Length	Slope	Velocity	Capacity	Description
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	'
	10.8	72	0.3300	0.11		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	6.8	586	0.3300	1.44		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	7.9	673	0.3200	1.41		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	9.6	625	0.1900	1.09		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	8.9	664	0.2500	1.25		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	8.9	484	0.1300	0.90		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	10.7	700	0.1900	1.09		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	10.6	529	0.1100	0.83		Shallow Concentrated Flow,
	44.0	- 4 -	0.4700	4.00		Forest w/Heavy Litter Kv= 2.5 fps
	11.6	717	0.1700	1.03		Shallow Concentrated Flow,
	0.7	570	0.4700	40.40	404.04	Forest w/Heavy Litter Kv= 2.5 fps
	0.7	573	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	٥. ٦	000	0.4000	40.00	400.00	n= 0.050 Mountain streams w/large boulders
	0.5	386	0.1800	13.88	138.82	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	0.0	450	0.0000	4.40		n= 0.050 Mountain streams w/large boulders
	2.2	150	0.2000	1.12		Shallow Concentrated Flow,
	2.0	110	0.0000	0.74		Forest w/Heavy Litter Kv= 2.5 fps
	2.8	119	0.0800	0.71		Shallow Concentrated Flow,
_		0.070	T ()			Forest w/Heavy Litter Kv= 2.5 fps
	92.0	6,278	Total			

Summary for Subcatchment 86S: WS16

Runoff = 0.51 cfs @ 12.05 hrs, Volume= 0.030 af, Depth= 0.87"

	Area (ac)	CN	Description
	0.078	98	Existing impervious, HSG D
	0.048	78	Existing meadow, non-grazed, HSG D
_	0.290	77	Existing Woods, Good, HSG D
	0.416	81	Weighted Average
	0.338		81.25% Pervious Area
	0.078		18.75% Impervious Area

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_	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	10.7	51	0.1700	0.08		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	1.0	63	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.2	153	0.0700	13.01	39.04	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_						n= 0.022 Earth, clean & straight
	11.9	267	Total			

Summary for Subcatchment 87S: WS17

Runoff = 2.29 cfs @ 12.39 hrs, Volume= 0.317 af, Depth= 0.51"

Area	(ac) C	N Desc	cription		
0.	194 9	8 Exist	ting imperv	vious, HSG	D
1.	145 7	'1 Exist	ting meado	ow, non-gra	azed, HSG C
0.	402 7				azed, HSG D
				s, Good, H	
_			ting Wood	s, Good, H	SG D
			ghted Aver		
	192		7% Pervio		
0.	194	2.63	% Impervi	ous Area	
T .	1 41.	01	V - L 14	0	December Reco
Tc (min)	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Oh a st Eland
10.6	44	0.1300	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.40"
9.8	531	0.1300	0.90		Shallow Concentrated Flow,
9.0	JJ 1	0.1300	0.90		Forest w/Heavy Litter Kv= 2.5 fps
1.5	236	0.1500	2.71		Shallow Concentrated Flow,
1.0	200	0.1000	2.7 1		Short Grass Pasture Kv= 7.0 fps
5.8	372	0.1800	1.06		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.7	290	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.6	437	0.1600	2.80		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
1.8	142	0.2700	1.30		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.3	238	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
37.1	2,290	Total			

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Summary for Subcatchment 88S: WS18

Runoff = 0.57 cfs @ 12.24 hrs, Volume= 0.064 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 2-Year Rainfall=2.40"

Area	(ac) C	N Desc	cription					
0.	.172 7	'1 Exis	Existing meadow, non-grazed, HSG C					
1.	.110 7			s, Good, H				
				vious, HSG				
					azed, HSG D			
				s, Good, H				
			ghted Aver					
	.578	•	9% Pervio	•				
	.021		% Impervi					
0.	.021	1.01	70 Impervi	ous Aica				
Tc	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Boomption			
10.8	57	0.2100	0.09	(0.0)	Sheet Flow,			
10.0	31	0.2100	0.09		Woods: Dense underbrush n= 0.800 P2= 2.40"			
1.0	68	0.2100	1.15					
1.0	00	0.2100	1.15		Shallow Concentrated Flow,			
2.0	240	0.4400	0.04		Forest w/Heavy Litter Kv= 2.5 fps			
3.9	218	0.1400	0.94		Shallow Concentrated Flow,			
4 7	004	0.4000	4.00		Forest w/Heavy Litter Kv= 2.5 fps			
4.7	281	0.1600	1.00		Shallow Concentrated Flow,			
4.0	050	0.4000	4.00		Forest w/Heavy Litter Kv= 2.5 fps			
4.3	258	0.1600	1.00		Shallow Concentrated Flow,			
	00	0.0400	4.45		Forest w/Heavy Litter Kv= 2.5 fps			
1.4	96	0.2100	1.15		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
26.1	978	Total						

Summary for Subcatchment 89S: WS20

Runoff = 10.25 cfs @ 12.65 hrs, Volume= 1.843 af, Depth= 0.55"

 Area (ac)	CN	Description
1.023	98	Existing impervious, HSG C
0.436	98	Existing impervious, HSG D
6.987	71	Existing meadow, non-grazed, HSG C
6.713	78	Existing meadow, non-grazed, HSG D
16.006	70	Existing Woods, Good, HSG C
 8.839	77	Existing Woods, Good, HSG D
40.004	74	Weighted Average
38.545		96.35% Pervious Area
1.459		3.65% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
3.9	242	0.1700	1.03		Shallow Concentrated Flow,
1.2	270	0.2500	2.50		Forest w/Heavy Litter Kv= 2.5 fps
1.3	278	0.2500	3.50		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
1.8	258	0.1200	2.42		Shallow Concentrated Flow,
1.0	200	0.1200	2.72		Short Grass Pasture Kv= 7.0 fps
0.9	134	0.1300	2.52		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
0.4	77	0.2600	3.57		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
1.0	165	0.1700	2.89		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
2.4	177	0.2400	1.22		Shallow Concentrated Flow,
4.0	007	0.4000	0.50		Forest w/Heavy Litter Kv= 2.5 fps
1.6	237	0.1300	2.52		Shallow Concentrated Flow,
1.7	222	0.1000	2.21		Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,
1.7	232	0.1000	2.21		Short Grass Pasture Kv= 7.0 fps
13.7	544	0.0700	0.66		Shallow Concentrated Flow,
10.7	011	0.0700	0.00		Forest w/Heavy Litter Kv= 2.5 fps
7.4	332	0.0900	0.75		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.5	188	0.1300	0.90		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.5	252	0.2300	1.20		Shallow Concentrated Flow,
0.4	000	0.4400	40.04	100.10	Forest w/Heavy Litter Kv= 2.5 fps
0.4	298	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.2	200	0.1800	13.88	138.82	n= 0.050 Mountain streams w/large boulders Trap/Vee/Rect Channel Flow,
0.2	200	0.1000	13.00	130.02	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.3	229	0.1500	12.67	126.72	
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.3	227	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.3	242	0.1300	11.80	117.97	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	4.007	T.4.1			n= 0.050 Mountain streams w/large boulders
55.5	4,364	Total			

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Summary for Subcatchment 90S: WS21

Runoff = 1.83 cfs @ 12.43 hrs, Volume= 0.267 af, Depth= 0.51"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 2-Year Rainfall=2.40"

_	Area	(ac) C	N Desc	cription					
	0.020 98 Existing impervious, HSG D								
	0.181 71 Existing meadow, non-grazed, HSG C								
	0.412 78 Existing meadow, non-grazed, HSG D								
	3.099 70 Existing Woods, Good, HSG C								
_	2.516 77 Existing Woods, Good, HSG D								
	6.	228 7	'3 Weig	ghted Aver	age				
		208	99.6	8% Pervio	us Area				
	0.	020	0.32	% Impervi	ous Area				
	Tc	Length	Slope		Capacity	Description			
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
	10.9	40	0.1000	0.06		Sheet Flow,			
						Woods: Dense underbrush n= 0.800 P2= 2.40"			
	3.6	173	0.1000	0.79		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	5.3	356	0.2000	1.12		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	4.5	262	0.1500	0.97		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	2.2	150	0.2000	1.12		Shallow Concentrated Flow,			
	0.5	004	0.4400	0.04		Forest w/Heavy Litter Kv= 2.5 fps			
	6.5	364	0.1400	0.94		Shallow Concentrated Flow,			
	2.2	400	0.4500	0.07		Forest w/Heavy Litter Kv= 2.5 fps			
	3.3	189	0.1500	0.97		Shallow Concentrated Flow,			
	2.5	104	0.4400	0.04		Forest w/Heavy Litter Kv= 2.5 fps			
	3.5	194	0.1400	0.94		Shallow Concentrated Flow,			
	0.1	69	0.0300	8.52	25.56	Forest w/Heavy Litter Kv= 2.5 fps			
	U. I	09	0.0300	0.32	25.56	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
						n= 0.022 Earth, clean & straight			
_	20.0	4 707	Takal			11- 0.022 Latti, Geati & Stialytit			
	39.9	1,797	Total						

Summary for Subcatchment 91S: WS22

Runoff = 2.86 cfs @ 12.51 hrs, Volume= 0.425 af, Depth= 0.68"

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Area	(ac) C	N Desc	cription						
0.	0.074 98 Existing impervious, HSG D								
0.	0.307 71 Existing meadow, non-grazed, HSG C								
2.	2.930 78 Existing meadow, non-grazed, HSG D								
	0.876 70 Existing Woods, Good, HSG C								
3.	329 7	7 Exist	ting Wood	s, Good, H	SG D				
7.	516 7		ghted Aver						
	442		2% Pervio						
0.	074	0.98	% Impervi	ous Area					
_				_					
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
10.9	42	0.1100	0.06		Sheet Flow,				
	200	0.4400	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"				
5.8	290	0.1100	0.83		Shallow Concentrated Flow,				
- 0	000	0.4400	0.00		Forest w/Heavy Litter Kv= 2.5 fps				
5.3	266	0.1100	0.83		Shallow Concentrated Flow,				
7.0	395	0.1400	0.94		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,				
7.0	393	0.1400	0.94		Forest w/Heavy Litter Kv= 2.5 fps				
5.2	315	0.1600	1.00		Shallow Concentrated Flow,				
5.2	313	0.1000	1.00		Forest w/Heavy Litter Kv= 2.5 fps				
6.4	382	0.1600	1.00		Shallow Concentrated Flow,				
0.1	002	0000	1.00		Forest w/Heavy Litter Kv= 2.5 fps				
6.5	377	0.1500	0.97		Shallow Concentrated Flow,				
	-				Forest w/Heavy Litter Kv= 2.5 fps				
0.1	44	0.0200	6.96	20.87	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.022 Earth, clean & straight				
47.3	2,111	Total							

Summary for Subcatchment 92S: WS23

Runoff = 1.33 cfs @ 12.26 hrs, Volume= 0.140 af, Depth= 0.63"

Are	ea (ac)	CN	Description						
	0.039	98	Existing impervious, HSG D						
	0.363	71	71 Existing meadow, non-grazed, HSG C						
	0.449	78	Existing meadow, non-grazed, HSG D						
	0.148	70	Existing Woods, Good, HSG C						
	1.643	77	Existing Woods, Good, HSG D						
	2.642	76	Weighted Average						
	2.603		98.52% Pervious Area						
	0.039		1.48% Impervious Area						

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
3.5	212	0.1600	1.00		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.3	247	0.1500	0.97		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.6	267	0.1500	0.97		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.0	280	0.1400	0.94		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.1	66	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022 Earth, clean & straight
28.3	1,122	Total			

Summary for Subcatchment 93S: WS1A

Runoff = 1.68 cfs @ 12.25 hrs, Volume= 0.174 af, Depth= 0.68"

Area	(ac) C	N Des	cription						
0.	0.011 78 Existing meadow, non-grazed, HSG D 3.065 77 Existing Woods, Good, HSG D								
3	SG D								
3	.076 7	77 Weig	ghted Aver	age					
3	.076	100.	00% Pervi	ous Area					
_				_					
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
10.9	31	0.0600	0.05		Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
5.2	191	0.0600	0.61		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
1.1	59	0.1400	0.94		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
4.9	193	0.0700	0.66		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
4.1	161	0.0700	0.66		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
2.2	107	0.1100	0.83		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
0.1	79	0.0500	9.26	314.98	Trap/Vee/Rect Channel Flow,				
					Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'				
					n= 0.050 Mountain streams w/large boulders				
28.5	821	Total							

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Summary for Subcatchment 94S: WS1B

Runoff = 7.71 cfs @ 12.07 hrs, Volume= 0.511 af, Depth= 0.72"

Area	(ac) C	N Desc	cription							
0.	0.425 98 Existing impervious, HSG D									
0.	427 7	8 Exis	ting mead	ow, non-gra	azed, HSG D					
7.	619 7	7 Exis	ting Wood	s, Good, H	SG D					
8.										
	046	94.9	8% Pervio	us Area						
0.	425	5.02	% Impervi	ous Area						
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.9	38	0.0900	0.06		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
0.4	336	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
0.4	339	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
			1001		n= 0.022 Earth, clean & straight					
0.4	336	0.0700	13.01	39.04	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
0.4	070	0.0000	40.05	00.44	n= 0.022 Earth, clean & straight					
0.4	278	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
0.4	202	0.0000	40.05	20.44	n= 0.022 Earth, clean & straight					
0.4	283	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight					
0.1	118	0.0800	13.91	41.73	Trap/Vee/Rect Channel Flow,					
0.1	110	0.0000	13.91	41.73	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
0.2	164	0.0700	13.01	39.04	Trap/Vee/Rect Channel Flow,					
0.2	104	0.0700	13.01	39.04	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
0.1	83	0.1400	18.40	55.21	Trap/Vee/Rect Channel Flow,					
0.1	00	0.1400	10.40	00.21	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
0.8	505	0.0600	10.15	345.05	Trap/Vee/Rect Channel Flow,					
0.0	550	2.0000		0.0.00	Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'					
					n= 0.050 Mountain streams w/large boulders					
14.1	2,480	Total			g					
	_,									

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Summary for Subcatchment 95S: WS1C

Runoff = 9.04 cfs @ 12.49 hrs, Volume= 1.260 af, Depth= 0.87"

Area (a	c)	CN	Description					
3.28	31	98	Existing impervious, HSG D					
3.70)4	78	Existing meadow, non-grazed, HSG D					
10.36	64	77	Existing Woods, Good, HSG D					
17.34	19	81	Weighted Average					
14.06	86		81.09% Pervious Area					
3.28	31		18.91% Impervious Area					

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	48	0.1500	0.07	, ,	Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
3.0	172	0.1500	0.97		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.9	164	0.0500	0.56		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.9	77	0.3100	1.39		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.2	157	0.0600	12.05	36.14	
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
	0.50		40.05	00.44	n= 0.022 Earth, clean & straight
0.5	350	0.0600	12.05	36.14	
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.0	040	0.0000	44.75	44.00	n= 0.022 Earth, clean & straight
0.2	219	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.0	054	0.0000	44.75	44.00	n= 0.022 Earth, clean & straight
0.3	251	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.4	0.40		40.05	00.44	n= 0.022 Earth, clean & straight
0.4	316	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.4	70	0.4000	04.44	04.04	n= 0.022 Earth, clean & straight
0.1	73	0.1900	21.44	64.31	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.4	200	0.0700	40.04	20.04	n= 0.022 Earth, clean & straight
0.4	300	0.0700	13.01	39.04	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.4	170	0.0000	6.06	20.07	n= 0.022 Earth, clean & straight
0.4	179	0.0200	6.96	20.87	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
10.2	3/12	0.0500	0.56		n= 0.022 Earth, clean & straight Shallow Concentrated Flow,
10.2	342	0.0300	0.50		Forest w/Heavy Litter Kv= 2.5 fps
5.2	236	0.0900	0.75		Shallow Concentrated Flow,
5.2	230	0.0900	0.73		Forest w/Heavy Litter Kv= 2.5 fps
4.7	199	0.0800	0.71		Shallow Concentrated Flow,
7.7	199	0.0000	0.7 1		Forest w/Heavy Litter Kv= 2.5 fps
4.7	224	0.1000	0.79		Shallow Concentrated Flow,
7.1	227	0.1000	0.73		Forest w/Heavy Litter Kv= 2.5 fps
0.6	360	0.0800	9.25	92.55	Trap/Vee/Rect Channel Flow,
0.0	300	5.0000	3.23	52.55	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
47.4	3,667	Total			5.555 Modifican Greatife Wildingo Bouldoro
77.7	5,007	i Otai			

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Summary for Subcatchment 96S: WS1D

Runoff = 26.72 cfs @ 12.47 hrs, Volume= 3.923 af, Depth= 0.59"

 Area (ac)	CN	Description						
4.794	98	Existing impervious, HSG C						
1.682	98	Existing impervious, HSG D						
15.372	71	Existing meadow, non-grazed, HSG C						
10.464	78	Existing meadow, non-grazed, HSG D						
27.478	70	Existing Woods, Good, HSG C						
 19.608	77	Existing Woods, Good, HSG D						
79.398	75	Weighted Average						
72.922		91.84% Pervious Area						
6.476		8.16% Impervious Area						

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
_	6.2	100	0.2300	0.27		Sheet Flow,
						Grass: Dense n= 0.240 P2= 2.40"
	1.9	388	0.2300	3.36		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	4.4	312	0.2200	1.17		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	7.8	440	0.1400	0.94		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.1	123	0.1100	16.31	48.94	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
	0.0	000	0.4000	7.00		n= 0.022 Earth, clean & straight
	0.6	266	0.1300	7.32		Shallow Concentrated Flow,
	6.0	457	0.0400	4.00		Paved Kv= 20.3 fps
	6.2	457	0.2400	1.22		Shallow Concentrated Flow,
	0.1	120	0.1200	17.04	E1 11	Forest w/Heavy Litter Kv= 2.5 fps
	0.1	130	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022 Earth, clean & straight
	0.4	378	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow,
	0.4	070	0.1200	17.04	01.11	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022 Earth, clean & straight
	0.3	258	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,
	0.0	200	0.0000	0	0	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022 Earth, clean & straight
	0.3	263	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022 Earth, clean & straight
	4.2	242	0.1500	0.97		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	2.3	150	0.1900	1.09		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.6	256	0.1400	0.94		Shallow Concentrated Flow,
	0.4	044	0.4400	40.04	100.10	Forest w/Heavy Litter Kv= 2.5 fps
	0.4	314	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	0.5	272	0.1400	12.24	122.43	n= 0.050 Mountain streams w/large boulders Trap/Vee/Rect Channel Flow,
	0.5	3/3	0.1400	12.24	122.43	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050 Mountain streams w/large boulders
	0.7	447	0.1200	11.33	113.34	Trap/Vee/Rect Channel Flow,
	0.7	777	0.1200	11.00	110.04	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050 Mountain streams w/large boulders
	1.1	658	0.0900	9.82	98.16	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050 Mountain streams w/large boulders
	0.7	390	0.0500	8.83	212.04	Trap/Vee/Rect Channel Flow,
						Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00'
						n= 0.050 Mountain streams w/large boulders
	8.0	505	0.0600	10.15	345.05	Trap/Vee/Rect Channel Flow,
						Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'

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n= 0.050 Mountain streams w/large boulders

43.6 6,450 Total

Summary for Subcatchment 97S: WS24

Runoff = 3.98 cfs @ 12.55 hrs, Volume= 0.613 af, Depth= 0.72"

Area	(ac) C	N Desc	cription					
				vious, HSG				
					azed, HSG C			
					azed, HSG D			
			Existing Woods, Good, HSG C					
				s, Good, H	SG D			
			ghted Aver					
	712		1% Pervio					
U.	457	4.49	% Impervi	ous Area				
Тс	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Description			
10.7	43		0.07	(===)	Sheet Flow,			
			0.0.		Woods: Dense underbrush n= 0.800 P2= 2.40"			
11.8	613	0.1200	0.87		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
8.9	420	0.1000	0.79		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
2.5	139	0.1400	0.94		Shallow Concentrated Flow,			
	400				Forest w/Heavy Litter Kv= 2.5 fps			
2.2	108	0.1100	0.83		Shallow Concentrated Flow,			
4.0	007	0.4000	0.00		Forest w/Heavy Litter Kv= 2.5 fps			
4.2	227	0.1300	0.90		Shallow Concentrated Flow,			
1.4	240	0.1600	2.80		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,			
1.4	240	0.1000	2.00		Short Grass Pasture Kv= 7.0 fps			
1.2	201	0.1600	2.80		Shallow Concentrated Flow,			
1.2	201	0.1000	2.00		Short Grass Pasture Kv= 7.0 fps			
3.9	225	0.1500	0.97		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
4.3	242	0.1400	0.94		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
0.0	19	0.2100	12.09	36.28	Trap/Vee/Rect Channel Flow,			
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
					n= 0.041 Riprap, 2-inch			
51.1	2,477	Total						

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Summary for Subcatchment 98S: WS19

Runoff 1.86 cfs @ 12.54 hrs, Volume= 0.317 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 2-Year Rainfall=2.40"

Area	(ac) C	N Desc	cription							
0.	0.008 98 Existing impervious, HSG D									
0.	0.954 71 Existing meadow, non-grazed, HSG C									
0.	0.384 78 Existing meadow, non-grazed, HSG D									
4.	4.939 70 Existing Woods, Good, HSG C									
1.	.690 7	77 Exis	ting Wood	s, Good, H	SG D					
7.	.975 7	'2 Weig	ghted Aver	age						
7.	.967	99.9	0% Pervio	us Area						
0.	.008	0.10	% Impervi	ous Area						
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.7	41	0.1100	0.06		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
5.3	262	0.1100	0.83		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
7.3	422	0.1500	0.97		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
8.1	501	0.1700	1.03		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
3.1	213	0.2100	1.15		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
4.6	258	0.1400	0.94		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
7.7	465	0.1600	1.00		Shallow Concentrated Flow,					
0.4	400		40.05	00.44	Forest w/Heavy Litter Kv= 2.5 fps					
0.1	102	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
47.0	2,264	Total								

Summary for Subcatchment 103S: WS 1CA

Runoff 13.22 cfs @ 12.02 hrs, Volume= 0.730 af, Depth= 1.16"

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	Area	(ac) C	N Desc	cription		
	3.	139 9	S D			
	0.					azed, HSG D
	3.	561 7		•	s, Good, H	
_	7.	535 8	36 Weid	ghted Avei	rage	
		396		4% Pervio		
	3.	139	41.6	6% Imper	vious Area	
	Tc	Length	Slope	Velocity	Capacity	Description
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	·
	1.1	100	0.0400	1.57		Sheet Flow,
						Smooth surfaces n= 0.011 P2= 2.40"
	3.0	89	0.0400	0.50		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	2.0	161	0.3000	1.37		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.4	391	0.0500	16.63	166.28	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.022 Earth, clean & straight
	3.6	208	0.1500	0.97		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	10.1	949	Total			

Summary for Subcatchment 106S: WS 1G

Runoff = 12.21 cfs @ 12.35 hrs, Volume= 1.557 af, Depth= 0.55"

	Area (ac)	CN	Description					
_	0.906	71	Existing meadow, non-grazed, HSG C					
	12.918	70	Existing Woods, Good, HSG C					
	0.004	98	Existing impervious, HSG D					
	3.805	78	Existing meadow, non-grazed, HSG D					
_	16.155	77	Existing Woods, Good, HSG D					
_	33.788	74	Weighted Average					
	33.784		99.99% Pervious Area					
	0.004		0.01% Impervious Area					

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	8.0	100	0.1200	0.21		Sheet Flow,
	4.0	400	0.4000	0.40		Grass: Dense n= 0.240 P2= 2.40"
	1.3	182	0.1200	2.42		Shallow Concentrated Flow,
	4.7	112	0.4000	1.58		Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,
	4.7	443	0.4000	1.50		Forest w/Heavy Litter Kv= 2.5 fps
	0.6	118	0.2200	3.28		Shallow Concentrated Flow,
	0.0	110	O.LLOO	0.20		Short Grass Pasture Kv= 7.0 fps
	1.9	458	0.3200	3.96		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	8.9	564	0.1800	1.06		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.0	366	0.3700	1.52		Shallow Concentrated Flow,
	2.5	460	0.4000	4.00		Forest w/Heavy Litter Kv= 2.5 fps
	2.5	162	0.1900	1.09		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
	0.5	449	0.2000	14.63	146.33	Trap/Vee/Rect Channel Flow,
	0.5	773	0.2000	17.00	140.00	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050
	0.5	450	0.2000	14.63	146.33	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050
	0.5	408	0.2100	14.99	149.94	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	0.7		0.4500	40.07	400.70	n= 0.050
	0.7	554	0.1500	12.67	126.72	• • • • • • • • • • • • • • • • • • • •
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
	0.5	391	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,
	0.5	331	0.1000	13.03	150.00	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050
-	34.6	4,645	Total			
		.,				

Summary for Subcatchment 107S: WS 1H

Runoff = 15.09 cfs @ 12.65 hrs, Volume= 2.741 af, Depth= 0.55"

 Area (ac)	CN	Description			
2.007	71	Existing meadow, non-grazed, HSG C			
22.781	70	Existing Woods, Good, HSG C			
4.416	78	Existing meadow, non-grazed, HSG D			
 30.287	77	Existing Woods, Good, HSG D			
59.491	74	Weighted Average			
59.491		100.00% Pervious Area			

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	59	0.2300	0.09	, ,	Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
1.5	105	0.2300	1.20		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.3	330	0.3600	4.20		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
2.3	212	0.3900	1.56		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.5	108	0.2400	3.43		Shallow Concentrated Flow,
4.0	0.40	0.0000	4.44		Short Grass Pasture Kv= 7.0 fps
4.0	346	0.3300	1.44		Shallow Concentrated Flow,
2.2	400	0.4500	0.07		Forest w/Heavy Litter Kv= 2.5 fps
3.3	190	0.1500	0.97		Shallow Concentrated Flow,
4.8	320	0.2000	1.12		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
4.0	320	0.2000	1.12		Forest w/Heavy Litter Kv= 2.5 fps
4.8	411	0.3200	1.41		Shallow Concentrated Flow,
7.0	711	0.0200	1.71		Forest w/Heavy Litter Kv= 2.5 fps
3.0	281	0.3900	1.56		Shallow Concentrated Flow,
0.0	201	0.0000	1.00		Forest w/Heavy Litter Kv= 2.5 fps
3.2	255	0.2900	1.35		Shallow Concentrated Flow,
• • •					Forest w/Heavy Litter Kv= 2.5 fps
3.0	223	0.2400	1.22		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
10.3	601	0.1500	0.97		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.8	147	0.2900	1.35		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.5	403	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.4	348	0.1600	14.26	199.63	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
0.5	405	0.4000	45.54	047.55	n= 0.050 Mountain streams w/large boulders
0.5	465	0.1900	15.54	217.55	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
	4.004	T.4.1			n= 0.050 Mountain streams w/large boulders
55.9	4,804	Total			

Summary for Subcatchment 108S: WS1F

Runoff = 11.36 cfs @ 12.55 hrs, Volume= 1.856 af, Depth= 0.55"

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_	Area	(ac) C	N Des	cription		
	0.	002 9	98 Exis	ting imper	vious, HSG	C
					vious, HSG	
						azed, HSG C
						azed, HSG D
				•	s, Good, H	
-					s, Good, H	3G D
		294 <i>1</i> 930		ghted Aver 0% Pervio		
		364		% Impervi		
	0.	001	0.00	70 IIIIpoi Vi	00071100	
	Тс	Length	Slope	Velocity	Capacity	Description
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	10.9	52	0.1700	0.08		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	3.8	237	0.1700	1.03		Shallow Concentrated Flow,
	4.0	070	0.4000	4.00		Forest w/Heavy Litter Kv= 2.5 fps
	4.2	276	0.1900	1.09		Shallow Concentrated Flow,
	3.7	148	0.0700	0.66		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
	0.7	140	0.0700	0.00		Forest w/Heavy Litter Kv= 2.5 fps
	6.9	402	0.1500	0.97		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.5	396	0.3500	1.48		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.9	373	0.4000	1.58		Shallow Concentrated Flow,
	4.1	334	0.3000	1 27		Forest w/Heavy Litter Kv= 2.5 fps
	4.1	334	0.3000	1.37		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
	4.7	331	0.2200	1.17		Shallow Concentrated Flow,
	1.7	001	0.2200	,		Forest w/Heavy Litter Kv= 2.5 fps
	0.4	341	0.2300	15.69	156.92	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050 Mountain streams w/large boulders
	0.4	396	0.2200	15.35	153.47	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	0.4	367	0.2300	15.69	156.92	n= 0.050 Mountain streams w/large boulders Trap/Vee/Rect Channel Flow,
	0.4	307	0.2300	15.09	150.92	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050 Mountain streams w/large boulders
	0.5	394	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,
				_		Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050 Mountain streams w/large boulders
	0.2	144	0.2200	15.35	153.47	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
_	46.5	4 15:	-			n= 0.050 Mountain streams w/large boulders
	48.6	4,191	Total			

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Summary for Subcatchment 110S: WS1E

Runoff = 7.37 cfs @ 12.65 hrs, Volume= 1.367 af, Depth= 0.51"

Area (ad	c) CN	Description					
0.32	8 98	Existing impervious, HSG C					
0.08	2 98	Existing impervious, HSG D					
3.84	6 71	Existing meadow, non-grazed, HSG C					
4.27	2 78	Existing meadow, non-grazed, HSG D					
17.22	3 70	Existing Woods, Good, HSG C					
6.15	0 77	Existing Woods, Good, HSG D					
31.90	1 73	Weighted Average					
31.49	1	98.71% Pervious Area					
0.41	0	1.29% Impervious Area					

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
-	10.8	53	0.1800	0.08	(===)	Sheet Flow,
				0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"
	1.8	113	0.1800	1.06		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	2.2	154	0.2100	1.15		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.4	191	0.1400	0.94		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	2.4	146	0.1600	1.00		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	1.8	137	0.2500	1.25		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	2.6	204	0.2800	1.32		Shallow Concentrated Flow,
	0.0	404	0.4500	0.07		Forest w/Heavy Litter Kv= 2.5 fps
	2.3	134	0.1500	0.97		Shallow Concentrated Flow,
	4.3	286	0.2000	1.12		Forest w/Heavy Litter Kv= 2.5 fps
	4.3	200	0.2000	1.12		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
	3.3	261	0.2700	1.30		Shallow Concentrated Flow,
	0.0	201	0.2700	1.00		Forest w/Heavy Litter Kv= 2.5 fps
	5.2	341	0.1900	1.09		Shallow Concentrated Flow,
	V	• • • • • • • • • • • • • • • • • • • •				Forest w/Heavy Litter Kv= 2.5 fps
	6.3	423	0.2000	1.12		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.7	301	0.1800	1.06		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	2.9	196	0.2000	1.12		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.3	223	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	0.4	000	0.4700	40.40	10101	n= 0.050
	0.4	333	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	0.5	440	0.4000	14.26	142.62	n= 0.050
	0.5	440	0.1900	14.20	142.62	Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050
	0.2	189	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
	0.2	100	5.1700	10.40	10-1.01	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050
-	55.4	4,125	Total			

Summary for Subcatchment 111S: WS4A

Runoff = 9.70 cfs @ 12.75 hrs, Volume= 1.893 af, Depth= 0.59"

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Area	(ac) C	N Desc	cription							
0.	0.521 71 Existing meadow, non-grazed, HSG C 4.362 78 Existing meadow, non-grazed, HSG D									
4.	362 7	8 Exis	ting meado	ow, non-gra	azed, HSG D					
12.	444 7	0 Exis	ting Wood	s, Good, H	SG C					
20.	988 7	7 Exis	ting Wood	s, Good, H	SG D					
38.	315 7	5 Weig	hted Aver	age						
38.	315	100.	00% Pervi	ous Area						
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	·					
10.7	73	0.3500	0.11		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
6.0	529	0.3500	1.48		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
4.0	350	0.3400	1.46		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
7.0	505	0.2300	1.20		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
8.5	623	0.2400	1.22		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
3.9	355	0.3700	1.52		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
4.6	337	0.2400	1.22		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
7.5	437	0.1500	0.97		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
5.5	330	0.1600	1.00		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
6.1	345	0.1400	0.94		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.1	45	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,					
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'					
					n= 0.050 Mountain streams w/large boulders					
63.9	3,929	Total								

Summary for Subcatchment 142S: WS1I

Runoff = 7.10 cfs @ 12.29 hrs, Volume= 0.799 af, Depth= 0.63"

 Area (ac)	CN	Description					
0.123	98	Existing impervious, HSG D					
2.494	70	Existing Woods, Good, HSG C					
 12.485	77	Existing Woods, Good, HSG D					
15.102	76	Weighted Average					
14.979		99.19% Pervious Area					
0.123		0.81% Impervious Area					

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Tc (min)	-	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
4.7	293	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.3	337	0.1800	1.06		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.6	279	0.1600	1.00		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.8	199	0.2200	1.17		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.5	431	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.5	373	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.7	447	0.1200	11.33	113.34	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
1.1	658	0.0900	9.82	98.16	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
31.2	3,069	Total			

Summary for Subcatchment 143S: WS1J

Runoff = 12.11 cfs @ 12.22 hrs, Volume= 1.182 af, Depth= 0.63"

 Area (ac)	CN	Description
0.230	98	Existing impervious, HSG D
0.095	71	Existing meadow, non-grazed, HSG C
0.159	78	Existing meadow, non-grazed, HSG D
4.342	70	Existing Woods, Good, HSG C
 17.520	77	Existing Woods, Good, HSG D
 22.346	76	Weighted Average
22.116		98.97% Pervious Area
0.230		1.03% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
 10.9	52	0.1700	0.08	(013)	Sheet Flow,
	0_	000	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"
4.3	269	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.3	336	0.1800	1.06		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.5	167	0.2000	1.12		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.5	486	0.1300	15.28	641.91	Trap/Vee/Rect Channel Flow,
					Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
0.5	5.40	0.4700	47.40	70400	n= 0.050
0.5	546	0.1700	17.48	734.06	• •
					Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
0.5	102	0.1200	14.68	616.73	n= 0.050
0.5	403	0.1200	14.00	010.73	Trap/Vee/Rect Channel Flow, Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
					n= 0.050
0.5	426	0.1100	14.06	590.48	Trap/Vee/Rect Channel Flow,
0.0	120	0.1100	14.00	000.40	Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
					n= 0.050
0.4	336	0.0900	12.72	534.11	Trap/Vee/Rect Channel Flow,
					Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
					n= 0.050
 25.4	3,101	Total			

Summary for Reach 40R: stream

Inflow Area = 38.315 ac, 0.00% Impervious, Inflow Depth = 0.59" for 2-Year event

Inflow = 9.51 cfs @ 12.97 hrs, Volume= 1.893 af

Outflow = 9.49 cfs @ 13.06 hrs, Volume= 1.893 af, Atten= 0%, Lag= 4.9 min

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

Max. Velocity= 4.36 fps, Min. Travel Time= 2.9 min Avg. Velocity = 1.50 fps, Avg. Travel Time= 8.6 min

Peak Storage= 1,677 cf @ 13.01 hrs

Average Depth at Peak Storage= 0.34', Surface Width= 6.69' Bank-Full Depth= 2.00' Flow Area= 16.0 sf, Capacity= 186.92 cfs

6.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 10.00'

Length= 770.0' Slope= 0.1013 '/'

Inlet Invert= 1,563.00', Outlet Invert= 1,485.00'

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Summary for Reach 42R: stream

Inflow Area = 38.315 ac, 0.00% Impervious, Inflow Depth = 0.59" for 2-Year event

Inflow = 9.70 cfs @ 12.75 hrs, Volume= 1.893 af

Outflow = 9.51 cfs @ 12.97 hrs, Volume= 1.893 af, Atten= 2%, Lag= 13.5 min

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

Max. Velocity= 5.37 fps, Min. Travel Time= 7.6 min Avg. Velocity = 1.74 fps, Avg. Travel Time= 23.4 min

Peak Storage= 4,325 cf @ 12.85 hrs

Average Depth at Peak Storage= 0.33', Surface Width= 5.66' Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 60.47 cfs

5.00' x 1.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 2,440.0' Slope= 0.1639 '/'

Inlet Invert= 1,973.00', Outlet Invert= 1,573.00'

Summary for Reach 102R: stream

Inflow Area = 315.675 ac, 4.58% Impervious, Inflow Depth = 0.61" for 2-Year event

Inflow = 84.89 cfs @ 12.61 hrs, Volume= 15.927 af

Outflow = 84.53 cfs @ 12.68 hrs, Volume= 15.927 af, Atten= 0%, Lag= 3.9 min

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

Max. Velocity= 6.47 fps, Min. Travel Time= 2.3 min

Avg. Velocity = 2.14 fps, Avg. Travel Time= 6.9 min

Peak Storage= 11,640 cf @ 12.64 hrs

Average Depth at Peak Storage= 1.01', Surface Width= 14.01' Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 883.89 cfs

12.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value = 1.0 '/' Top Width = 20.00'

Length= 890.0' Slope= 0.0562 '/'

Inlet Invert= 1,480.00', Outlet Invert= 1,430.00'

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Summary for Reach 103R: stream

Inflow Area = 93.279 ac, 0.00% Impervious, Inflow Depth = 0.55" for 2-Year event

Inflow = 23.91 cfs @ 12.64 hrs, Volume= 4.297 af

Outflow = 23.87 cfs @ 12.67 hrs, Volume= 4.297 af, Atten= 0%, Lag= 1.5 min

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

Max. Velocity= 5.18 fps, Min. Travel Time= 0.9 min Avg. Velocity = 1.88 fps, Avg. Travel Time= 2.4 min

Peak Storage= 1,269 cf @ 12.65 hrs

Average Depth at Peak Storage= 0.54', Surface Width= 9.08' Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 440.61 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 275.0' Slope= 0.0800 '/'

Inlet Invert= 1,502.00', Outlet Invert= 1,480.00'



Summary for Reach 104R: stream

Inflow Area = 159.128 ac, 6.53% Impervious, Inflow Depth = 0.59" for 2-Year event

Inflow = 43.72 cfs @ 12.63 hrs, Volume= 7.877 af

Outflow = 43.60 cfs @ 12.66 hrs, Volume= 7.877 af, Atten= 0%, Lag= 2.1 min

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

Max. Velocity= 6.93 fps, Min. Travel Time= 1.2 min Avg. Velocity = 2.40 fps, Avg. Travel Time= 3.4 min

Peak Storage= 3,123 cf @ 12.64 hrs

Average Depth at Peak Storage= 0.72', Surface Width= 9.45' Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 495.10 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 495.0' Slope= 0.1010 '/'

Inlet Invert= 1,530.00', Outlet Invert= 1,480.00'

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Summary for Reach 108R: stream

Inflow Area = 93.279 ac, 0.00% Impervious, Inflow Depth = 0.55" for 2-Year event

Inflow = 24.29 cfs @ 12.49 hrs, Volume= 4.297 af

Outflow = 23.91 cfs @ 12.64 hrs, Volume= 4.297 af, Atten= 2%, Lag= 9.3 min

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

Max. Velocity= 6.26 fps, Min. Travel Time= 5.2 min Avg. Velocity = 2.22 fps, Avg. Travel Time= 14.8 min

Peak Storage= 7,534 cf @ 12.55 hrs

Average Depth at Peak Storage= 0.45', Surface Width= 8.91' Bank-Full Depth= 2.00' Flow Area= 20.0 sf, Capacity= 291.19 cfs

8.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 12.00'

Length= 1,968.0' Slope= 0.1443 '/'

Inlet Invert= 1,810.00', Outlet Invert= 1,526.00'



Summary for Reach 110R: stream

Inflow Area = 151.593 ac, 4.78% Impervious, Inflow Depth = 0.57" for 2-Year event

Inflow = 42.71 cfs @ 12.57 hrs, Volume= 7.147 af

Outflow = 42.48 cfs @ 12.63 hrs, Volume= 7.147 af, Atten= 1%, Lag= 4.1 min

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

Max. Velocity= 8.33 fps, Min. Travel Time= 2.3 min

Avg. Velocity = 3.13 fps, Avg. Travel Time= 6.2 min

Peak Storage= 6,000 cf @ 12.59 hrs

Average Depth at Peak Storage= 0.76', Surface Width= 7.51'

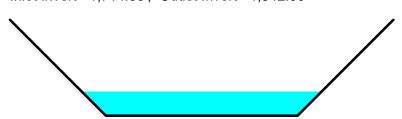
Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 465.00 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 12.00'

Length= 1,175.0' Slope= 0.1464 '/'

Inlet Invert= 1,714.00', Outlet Invert= 1,542.00'



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Summary for Reach 111R: upperstream

Inflow Area = 40.294 ac, 0.90% Impervious, Inflow Depth = 0.55" for 2-Year event

Inflow = 11.36 cfs @ 12.55 hrs, Volume= 1.856 af

Outflow = 11.32 cfs @ 12.60 hrs, Volume= 1.856 af, Atten= 0%, Lag= 2.9 min

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

Max. Velocity= 6.71 fps, Min. Travel Time= 1.7 min Avg. Velocity = 2.76 fps, Avg. Travel Time= 4.1 min

Peak Storage= 1,161 cf @ 12.57 hrs

Average Depth at Peak Storage= 0.49', Surface Width= 3.97' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 139.11 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value = 1.0 '/' Top Width = 7.00'

Length= 686.0' Slope= 0.1808 '/'

Inlet Invert= 2,074.00', Outlet Invert= 1,950.00'



Summary for Reach 112R: stream

Inflow Area = 72.195 ac, 1.07% Impervious, Inflow Depth = 0.54" for 2-Year event

Inflow = 18.65 cfs @ 12.62 hrs, Volume= 3.224 af

Outflow = 18.57 cfs @ 12.70 hrs, Volume= 3.224 af, Atten= 0%, Lag= 5.0 min

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

Max. Velocity= 6.99 fps, Min. Travel Time= 2.9 min

Avg. Velocity = 2.70 fps, Avg. Travel Time= 7.6 min

Peak Storage= 3,270 cf @ 12.65 hrs

Average Depth at Peak Storage= 0.48', Surface Width= 5.97' Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 210.11 cfs

5.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 9.00'

Length= 1,230.0' Slope= 0.1772 '/'

Inlet Invert= 1,950.00', Outlet Invert= 1,732.00'



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Summary for Link SP1:

Inflow Area = 322.567 ac, 4.49% Impervious, Inflow Depth = 0.61" for 2-Year event

Inflow = 85.81 cfs @ 12.67 hrs, Volume= 16.317 af

Primary = 85.81 cfs @ 12.67 hrs, Volume= 16.317 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP10:

Inflow Area = 0.758 ac, 3.56% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 0.67 cfs @ 12.08 hrs, Volume= 0.046 af

Primary = 0.67 cfs @ 12.08 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP11:

Inflow Area = 16.815 ac, 1.46% Impervious, Inflow Depth = 0.59" for 2-Year event

Inflow = 3.60 cfs @ 12.97 hrs, Volume= 0.831 af

Primary = 3.60 cfs @ 12.97 hrs, Volume= 0.831 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP12:

Inflow Area = 9.755 ac, 2.26% Impervious, Inflow Depth = 0.59" for 2-Year event

Inflow = 3.87 cfs @ 12.35 hrs, Volume= 0.482 af

Primary = 3.87 cfs @ 12.35 hrs, Volume= 0.482 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP13:

Inflow Area = 22.285 ac. 1.05% Impervious, Inflow Depth = 0.51" for 2-Year event

Inflow = 3.35 cfs @ 13.30 hrs, Volume= 0.955 af

Primary = 3.35 cfs @ 13.30 hrs, Volume= 0.955 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP14:

Inflow Area = 3.587 ac, 5.07% Impervious, Inflow Depth = 0.59" for 2-Year event

Inflow = 1.49 cfs @ 12.31 hrs, Volume= 0.177 af

Primary = 1.49 cfs @ 12.31 hrs, Volume= 0.177 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP15:

Inflow Area = 37.339 ac, 0.18% Impervious, Inflow Depth = 0.51" for 2-Year event

Inflow = 5.99 cfs @ 13.20 hrs, Volume= 1.601 af

Primary = 5.99 cfs @ 13.20 hrs, Volume= 1.601 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP16:

Inflow Area = 0.416 ac, 18.75% Impervious, Inflow Depth = 0.87" for 2-Year event

Inflow = 0.51 cfs @ 12.05 hrs, Volume= 0.030 af

Primary = 0.51 cfs @ 12.05 hrs, Volume= 0.030 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP17:

Inflow Area = 7.386 ac, 2.63% Impervious, Inflow Depth = 0.51" for 2-Year event

Inflow = 2.29 cfs @ 12.39 hrs, Volume= 0.317 af

Primary = 2.29 cfs @ 12.39 hrs, Volume= 0.317 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP18:

Inflow Area = 1.599 ac, 1.31% Impervious, Inflow Depth = 0.48" for 2-Year event

Inflow = 0.57 cfs @ 12.24 hrs, Volume= 0.064 af

Primary = 0.57 cfs @ 12.24 hrs, Volume= 0.064 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP19:

Inflow Area = 7.975 ac. 0.10% Impervious, Inflow Depth = 0.48" for 2-Year event

Inflow = 1.86 cfs @ 12.54 hrs, Volume= 0.317 af

Primary = 1.86 cfs @ 12.54 hrs, Volume= 0.317 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP2:

Inflow Area = 4.825 ac, 1.45% Impervious, Inflow Depth = 0.68" for 2-Year event

Inflow = 1.93 cfs @ 12.46 hrs, Volume= 0.273 af

Primary = 1.93 cfs @ 12.46 hrs, Volume= 0.273 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP20:

Inflow Area = 40.004 ac, 3.65% Impervious, Inflow Depth = 0.55" for 2-Year event

Inflow = 10.25 cfs @ 12.65 hrs, Volume= 1.843 af

Primary = 10.25 cfs @ 12.65 hrs, Volume= 1.843 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP21:

Inflow Area = 6.228 ac, 0.32% Impervious, Inflow Depth = 0.51" for 2-Year event

Inflow = 1.83 cfs @ 12.43 hrs, Volume= 0.267 af

Primary = 1.83 cfs @ 12.43 hrs, Volume= 0.267 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP22:

Inflow Area = 7.516 ac, 0.98% Impervious, Inflow Depth = 0.68" for 2-Year event

Inflow = 2.86 cfs @ 12.51 hrs, Volume= 0.425 af

Primary = 2.86 cfs @ 12.51 hrs, Volume= 0.425 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP23:

Inflow Area = 2.642 ac, 1.48% Impervious, Inflow Depth = 0.63" for 2-Year event

Inflow = 1.33 cfs @ 12.26 hrs, Volume= 0.140 af

Primary = 1.33 cfs @ 12.26 hrs, Volume= 0.140 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP24:

Inflow Area = 10.169 ac. 4.49% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 3.98 cfs @ 12.55 hrs, Volume= 0.613 af

Primary = 3.98 cfs @ 12.55 hrs, Volume= 0.613 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP3:

Inflow Area = 1.513 ac, 4.49% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 1.20 cfs @ 12.12 hrs, Volume= 0.091 af

Primary = 1.20 cfs @ 12.12 hrs, Volume= 0.091 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP4:

Inflow Area = 58.640 ac, 0.49% Impervious, Inflow Depth = 0.61" for 2-Year event

Inflow = 13.77 cfs @ 12.12 hrs, Volume= 2.969 af

Primary = 13.77 cfs @ 12.12 hrs, Volume= 2.969 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP5:

Inflow Area = 3.053 ac, 0.39% Impervious, Inflow Depth = 0.68" for 2-Year event

Inflow = 1.48 cfs @ 12.32 hrs, Volume= 0.173 af

Primary = 1.48 cfs @ 12.32 hrs, Volume= 0.173 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP6:

Inflow Area = 29.113 ac, 0.99% Impervious, Inflow Depth = 0.63" for 2-Year event

Inflow = 11.72 cfs @ 12.39 hrs, Volume= 1.540 af

Primary = 11.72 cfs @ 12.39 hrs, Volume= 1.540 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP7:

Inflow Area = 26.547 ac, 0.94% Impervious, Inflow Depth = 0.63" for 2-Year event

Inflow = 8.91 cfs @ 12.55 hrs, Volume= 1.404 af

Primary = 8.91 cfs @ 12.55 hrs, Volume= 1.404 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP8:

Inflow Area = 0.343 ac. 19.24% Impervious, Inflow Depth = 0.87" for 2-Year event

Inflow = 0.58 cfs @ 11.91 hrs, Volume= 0.025 af

Primary = 0.58 cfs @ 11.91 hrs, Volume= 0.025 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP9:

Inflow Area = 8.117 ac, 2.27% Impervious, Inflow Depth = 0.59" for 2-Year event

Inflow = 2.45 cfs @ 12.57 hrs, Volume= 0.401 af

Primary = 2.45 cfs @ 12.57 hrs, Volume= 0.401 af, Atten= 0%, Lag= 0.0 min

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

5 ,	,
Subcatchment70S: WS1	Runoff Area=3.816 ac 0.50% Impervious Runoff Depth=1.36" Flow Length=1,200' Tc=20.2 min CN=77 Runoff=5.58 cfs 0.431 af
Subcatchment72S: WS2	Runoff Area=4.825 ac 1.45% Impervious Runoff Depth=1.36" Flow Length=1,847' Tc=44.0 min CN=77 Runoff=4.20 cfs 0.545 af
Subcatchment73S: WS3	Runoff Area=1.513 ac 4.49% Impervious Runoff Depth=1.42" Flow Length=681' Tc=18.2 min CN=78 Runoff=2.48 cfs 0.179 af
Subcatchment74S: WS4	Runoff Area=20.325 ac 1.41% Impervious Runoff Depth=1.29" Flow Length=3,739' Tc=18.0 min CN=76 Runoff=30.13 cfs 2.190 af
Subcatchment75S: WS5	Runoff Area=3.053 ac 0.39% Impervious Runoff Depth=1.36" Flow Length=1,271' Tc=33.9 min CN=77 Runoff=3.20 cfs 0.345 af
Subcatchment76S: WS6	Runoff Area=29.113 ac 0.99% Impervious Runoff Depth=1.29" Flow Length=4,403' Tc=38.7 min CN=76 Runoff=26.28 cfs 3.138 af
Subcatchment77S: WS7	Runoff Area=26.547 ac 0.94% Impervious Runoff Depth=1.29" Flow Length=4,636' Tc=49.7 min CN=76 Runoff=19.98 cfs 2.861 af
Subcatchment78S: WS8	Runoff Area=0.343 ac 19.24% Impervious Runoff Depth=1.63" Flow Length=327' Tc=1.4 min CN=81 Runoff=1.09 cfs 0.047 af
Subcatchment79S: WS9	Runoff Area=8.117 ac 2.27% Impervious Runoff Depth=1.23" Flow Length=2,783' Tc=50.5 min CN=75 Runoff=5.70 cfs 0.833 af
Subcatchment80S: WS10	Runoff Area=0.758 ac 3.56% Impervious Runoff Depth=1.42" Flow Length=424' Tc=14.8 min CN=78 Runoff=1.38 cfs 0.090 af
Subcatchment81S: WS11	Runoff Area=16.815 ac 1.46% Impervious Runoff Depth=1.23" Flow Length=4,402' Tc=80.4 min CN=75 Runoff=8.37 cfs 1.726 af
Subcatchment82S: WS12	Runoff Area=9.755 ac 2.26% Impervious Runoff Depth=1.23" Flow Length=2,300' Tc=34.7 min CN=75 Runoff=8.97 cfs 1.001 af
Subcatchment83S: WS13	Runoff Area=22.285 ac 1.05% Impervious Runoff Depth=1.11" Flow Length=6,015' Tc=100.4 min CN=73 Runoff=8.27 cfs 2.067 af
Subcatchment84S: WS14	Runoff Area=3.587 ac 5.07% Impervious Runoff Depth=1.23" Flow Length=1,401' Tc=32.5 min CN=75 Runoff=3.45 cfs 0.368 af
Subcatchment85S: WS15	Runoff Area=37.339 ac 0.18% Impervious Runoff Depth=1.11" Flow Length=6,278' Tc=92.0 min CN=73 Runoff=14.75 cfs 3.463 af
Subcatchment86S: WS16	Runoff Area=0.416 ac 18.75% Impervious Runoff Depth=1.63" Flow Length=267' Tc=11.9 min CN=81 Runoff=0.96 cfs 0.056 af

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Subcatchment87S: WS17	Runoff Area=7.386 ac 2.63% Impervious Runoff Depth=1.11" Flow Length=2,290' Tc=37.1 min CN=73 Runoff=5.72 cfs 0.685 af
Subcatchment88S: WS18	Runoff Area=1.599 ac 1.31% Impervious Runoff Depth=1.06" Flow Length=978' Tc=26.1 min CN=72 Runoff=1.48 cfs 0.141 af
Subcatchment89S: WS20	Runoff Area=40.004 ac 3.65% Impervious Runoff Depth=1.17" Flow Length=4,364' Tc=55.5 min CN=74 Runoff=24.64 cfs 3.905 af
Subcatchment90S: WS21	Runoff Area=6.228 ac 0.32% Impervious Runoff Depth=1.11" Flow Length=1,797' Tc=39.9 min CN=73 Runoff=4.58 cfs 0.578 af
Subcatchment91S: WS22	Runoff Area=7.516 ac 0.98% Impervious Runoff Depth=1.36" Flow Length=2,111' Tc=47.3 min CN=77 Runoff=6.22 cfs 0.850 af
Subcatchment92S: WS23	Runoff Area=2.642 ac 1.48% Impervious Runoff Depth=1.29" Flow Length=1,122' Tc=28.3 min CN=76 Runoff=2.95 cfs 0.285 af
Subcatchment93S: WS1A	Runoff Area=3.076 ac 0.00% Impervious Runoff Depth=1.36" Flow Length=821' Tc=28.5 min CN=77 Runoff=3.62 cfs 0.348 af
Subcatchment94S: WS1B	Runoff Area=8.471 ac 5.02% Impervious Runoff Depth=1.42" Flow Length=2,480' Tc=14.1 min CN=78 Runoff=15.81 cfs 1.004 af
Subcatchment95S: WS1C	Runoff Area=17.349 ac 18.91% Impervious Runoff Depth=1.63" Flow Length=3,667' Tc=47.4 min CN=81 Runoff=17.63 cfs 2.354 af
Subcatchment96S: WS1D	Runoff Area=79.398 ac 8.16% Impervious Runoff Depth=1.23" Flow Length=6,450' Tc=43.6 min CN=75 Runoff=62.04 cfs 8.148 af
Subcatchment97S: WS24	Runoff Area=10.169 ac 4.49% Impervious Runoff Depth=1.42" Flow Length=2,477' Tc=51.1 min CN=78 Runoff=8.39 cfs 1.205 af
Subcatchment98S: WS19	Runoff Area=7.975 ac 0.10% Impervious Runoff Depth=1.06" Flow Length=2,264' Tc=47.0 min CN=72 Runoff=4.87 cfs 0.702 af
Subcatchment103S: WS 1CA	Runoff Area=7.535 ac 41.66% Impervious Runoff Depth=2.01" Flow Length=949' Tc=10.1 min CN=86 Runoff=22.70 cfs 1.262 af
Subcatchment106S: WS 1G	Runoff Area=33.788 ac 0.01% Impervious Runoff Depth=1.17" Flow Length=4,645' Tc=34.6 min CN=74 Runoff=29.30 cfs 3.298 af
Subcatchment107S: WS 1H	Runoff Area=59.491 ac 0.00% Impervious Runoff Depth=1.17" Flow Length=4,804' Tc=55.9 min CN=74 Runoff=36.48 cfs 5.807 af
Subcatchment108S: WS1F	Runoff Area=40.294 ac 0.90% Impervious Runoff Depth=1.17" Flow Length=4,191' Tc=48.6 min CN=74 Runoff=27.39 cfs 3.933 af
Subcatchment110S: WS1E	Runoff Area=31.901 ac 1.29% Impervious Runoff Depth=1.11" Flow Length=4,125' Tc=55.4 min CN=73 Runoff=18.47 cfs 2.959 af

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Subcatchment111S: WS4A Runoff Area=38.315 ac 0.00% Impervious Runoff Depth=1.23"

Flow Length=3,929' Tc=63.9 min CN=75 Runoff=22.62 cfs 3.932 af

Subcatchment142S: WS1I Runoff Area=15.102 ac 0.81% Impervious Runoff Depth=1.29"

Flow Length=3,069' Tc=31.2 min CN=76 Runoff=15.85 cfs 1.628 af

Subcatchment143S: WS1J Runoff Area=22.346 ac 1.03% Impervious Runoff Depth=1.29"

Flow Length=3,101' Tc=25.4 min CN=76 Runoff=26.84 cfs 2.408 af

Reach 40R: stream Avg. Flow Depth=0.57' Max Vel=5.91 fps Inflow=22.32 cfs 3.932 af

 $n = 0.050 \quad L = 770.0' \quad S = 0.1013 \; '/' \quad Capacity = 186.92 \; cfs \quad Outflow = 22.25 \; cfs \quad 3.932 \; af$

Reach 42R: stream Avg. Flow Depth=0.55' Max Vel=7.25 fps Inflow=22.62 cfs 3.932 af

n=0.050 L=2,440.0' S=0.1639 '/' Capacity=60.47 cfs Outflow=22.32 cfs 3.932 af

Reach 102R: stream Avg. Flow Depth=1.69' Max Vel=8.72 fps Inflow=201.57 cfs 32.801 af

n=0.050 L=890.0' S=0.0562 '/' Capacity=883.89 cfs Outflow=200.86 cfs 32.801 af

Reach 103R: stream Avg. Flow Depth=0.92' Max Vel=7.09 fps Inflow=58.42 cfs 9.106 af

n=0.050 L=275.0' S=0.0800 '/' Capacity=440.61 cfs Outflow=58.28 cfs 9.106 af

Reach 104R: stream Avg. Flow Depth=1.22' Max Vel=9.32 fps Inflow=104.72 cfs 16.302 af

n=0.050 L=495.0' S=0.1010'/' Capacity=495.10 cfs Outflow=104.41 cfs 16.302 af

Reach 108R: stream Avg. Flow Depth=0.77' Max Vel=8.62 fps Inflow=58.98 cfs 9.106 af

n=0.050 L=1,968.0' S=0.1443 '/' Capacity=291.19 cfs Outflow=58.42 cfs 9.106 af

Reach 110R: stream Avg. Flow Depth=1.27' Max Vel=11.10 fps Inflow=102.88 cfs 15.040 af

 $n = 0.050 \quad L = 1,175.0' \quad S = 0.1464 \; \text{'/'} \quad Capacity = 465.00 \; \text{cfs} \quad Outflow = 102.47 \; \text{cfs} \quad 15.040 \; \text{af} \quad$

Reach 111R: upperstream Avg. Flow Depth=0.81' Max Vel=8.83 fps Inflow=27.39 cfs 3.933 af

n=0.050 L=686.0' S=0.1808 '/' Capacity=139.11 cfs Outflow=27.29 cfs 3.933 af

Reach 112R: stream Avg. Flow Depth=0.83' Max Vel=9.45 fps Inflow=45.59 cfs 6.892 af

n=0.050 L=1,230.0' S=0.1772 '/' Capacity=210.11 cfs Outflow=45.40 cfs 6.892 af

Link SP1: Inflow=203.85 cfs 33.580 af

Primary=203.85 cfs 33.580 af

Link SP10: Inflow=1.38 cfs 0.090 af

Primary=1.38 cfs 0.090 af

Link SP11: Inflow=8.37 cfs 1.726 af

Primary=8.37 cfs 1.726 af

Link SP12: Inflow=8.97 cfs 1.001 af

Primary=8.97 cfs 1.001 af

Link SP13: Inflow=8.27 cfs 2.067 af

Primary=8.27 cfs 2.067 af

Type II 24-hr 10-Year Rainfall=3.40" Printed 9/24/2021

55310.01-West Mountain-EX	Type II 24-nr TO-Year Rainfail=3.40
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Link SP14:	Inflow=3.45 cfs 0.368 af
	Primary=3.45 cfs 0.368 af
Link SP15:	Inflow=14.75 cfs 3.463 af
	Primary=14.75 cfs 3.463 af
Link SP16:	Inflow=0.96 cfs 0.056 af
	Primary=0.96 cfs 0.056 af
Link SP17:	Inflow=5.72 cfs 0.685 af
	Primary=5.72 cfs 0.685 af
Link SP18:	Inflow=1.48 cfs 0.141 af
	Primary=1.48 cfs 0.141 af
Link SP19:	Inflow=4.87 cfs 0.702 af
	Primary=4.87 cfs 0.702 af
Link SP2:	Inflow=4.20 cfs 0.545 af
	Primary=4.20 cfs 0.545 af
Link SP20:	Inflow=24.64 cfs 3.905 af
	Primary=24.64 cfs 3.905 af
Link SP21:	Inflow=4.58 cfs 0.578 af
	Primary=4.58 cfs 0.578 af
Link SP22:	Inflow=6.22 cfs 0.850 af
	Primary=6.22 cfs 0.850 af
1: 1 0000	1 (I 0 0 F (0 0 0 F (
Link SP23:	Inflow=2.95 cfs 0.285 af
	Primary=2.95 cfs 0.285 af
Link CD04	Inflow=8.39 cfs 1.205 af
Link SP24:	Primary=8.39 cfs 1.205 af
	Filliary-0.39 Cis 1.203 at
Link SP3:	Inflow=2.48 cfs 0.179 af
LIIIK 3F3.	Primary=2.48 cfs 0.179 af
	Fillilary=2.40 cis 0.179 at
Link SP4:	Inflow=30.76 cfs 6.123 af
Ellik Ol 4.	Primary=30.76 cfs 6.123 af
	1 1111ary 00.70 dia 0.120 ar
Link SP5:	Inflow=3.20 cfs 0.345 af
	Primary=3.20 cfs 0.345 af
	ary 0.20 010 0.040 dr
Link SP6:	Inflow=26.28 cfs 3.138 af
	Primary=26.28 cfs 3.138 af
Link SP7:	Inflow=19.98 cfs 2.861 af
	Primary=19.98 cfs 2.861 af
	:

Type II 24-hr 10-Year Rainfall=3.40"

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Link SP8: Inflow=1.09 cfs 0.047 af

Primary=1.09 cfs 0.047 af

Link SP9:Inflow=5.70 cfs 0.833 af
Primary=5.70 cfs 0.833 af

Total Runoff Area = 629.192 ac Runoff Volume = 64.771 af Average Runoff Depth = 1.24" 96.98% Pervious = 610.171 ac 3.02% Impervious = 19.021 ac

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Summary for Subcatchment 70S: WS1

Runoff = 5.58 cfs @ 12.14 hrs, Volume= 0.431 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 10-Year Rainfall=3.40"

Area	(ac) C	N Des	cription		
0.	.019 9	98 Exis	ting imper	vious, HSG	D
0.	.032				azed, HSG D
3.	.765	77 Exis	ting Wood	s, Good, H	SG D
_			ghted Aver		
	.797		0% Pervio		
0.	.019	0.50	% Impervi	ous Area	
-		01		0 :	
Tc	Length	Slope	Velocity	Capacity	Description
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)	
10.9	38	0.0900	0.06		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
8.0	358	0.0900	0.75		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.5	299	0.0600	9.68	232.28	Trap/Vee/Rect Channel Flow,
					Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00'
					n= 0.050 Mountain streams w/large boulders
8.0	505	0.0600	10.15	345.05	Trap/Vee/Rect Channel Flow,
					Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'
					n= 0.050 Mountain streams w/large boulders
20.2	1,200	Total			

Summary for Subcatchment 72S: WS2

Runoff = 4.20 cfs @ 12.44 hrs, Volume= 0.545 af, Depth= 1.36"

 Area (ac)	CN	Description
0.070	98	Existing impervious, HSG D
0.750	78	Existing meadow, non-grazed, HSG D
 4.005	77	Existing Woods, Good, HSG D
4.825	77	Weighted Average
4.755		98.55% Pervious Area
0.070		1.45% Impervious Area

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To (min)		Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	49	0.1600	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
5.8	349	0.1600	1.00		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.5	156	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.6	279	0.1100	0.83		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.4	154	0.0900	0.75		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
7.5	339	0.0900	0.75		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
8.3	374	0.0900	0.75		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.3	147	0.0300	8.52	25.56	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022 Earth, clean & straight
44.0	1,847	Total			

Summary for Subcatchment 73S: WS3

Runoff = 2.48 cfs @ 12.11 hrs, Volume= 0.179 af, Depth= 1.42"

Area	(ac) C	N Des	cription		
0.	.068 9	8 Exis	ting imperv	vious, HSG	D
					azed, HSG D
1.	.191 7	7 Exis	ting Wood	s, Good, H	SG D
		•	ghted Aver	•	
	.445		1% Pervio		
0.	.068	4.49	% Impervi	ous Area	
To	Longth	Slope	Volocity	Canacity	Description
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	36	0.0800	0.05	(013)	Sheet Flow,
11.0	30	0.0000	0.03		Woods: Dense underbrush n= 0.800 P2= 2.40"
1.4	60	0.0800	0.71		Shallow Concentrated Flow,
•••		0.0000	0		Forest w/Heavy Litter Kv= 2.5 fps
1.6	97	0.1600	1.00		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.8	169	0.0900	0.75		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.4	319	0.0700	13.01	39.04	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022 Earth, clean & straight
18.2	681	Total			

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Summary for Subcatchment 74S: WS4

Runoff = 30.13 cfs @ 12.11 hrs, Volume= 2.190 af, Depth= 1.29"

Area	(ac) C	N Des	cription				
0.	287 9	8 Exis	ting imper	vious, HSG	D		
0.	739 7	'1 Exis	ting mead	ow, non-gra	azed, HSG C		
1.	095 7	'8 Exis	ting mead	ow, non-gra	azed, HSG D		
2.	2.883 70 Existing Woods, Good, HSG C						
15.	321 7			s, Good, H	SG D		
			ghted Avei				
	038		9% Pervio				
0.	287	1.41	% Impervi	ous Area			
_		0.1					
Tc	Length	Slope	Velocity	Capacity	Description		
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)			
10.8	56	0.2000	0.09		Sheet Flow,		
					Woods: Dense underbrush n= 0.800 P2= 2.40"		
2.4	164	0.2000	1.12		Shallow Concentrated Flow,		
					Forest w/Heavy Litter Kv= 2.5 fps		
0.5	417	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,		
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'		
					n= 0.050 Mountain streams w/large boulders		
0.7	544	0.1800	13.88	138.82	Trap/Vee/Rect Channel Flow,		
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'		
					n= 0.050 Mountain streams w/large boulders		
1.0	711	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,		
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'		
					n= 0.050 Mountain streams w/large boulders		
0.5	404	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,		
					Bot.W=3.00' D=2.00' Z= 1.0 '/" Top.W=7.00'		
					n= 0.050 Mountain streams w/large boulders		
0.4	338	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,		
					Bot.W=3.00' D=2.00' Z= 1.0 '/ Top.W=7.00'		
					n= 0.050 Mountain streams w/large boulders		
0.6	432	0.1200	11.33	113.34	Trap/Vee/Rect Channel Flow,		
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'		
					n= 0.050 Mountain streams w/large boulders		
0.8	424	0.0800	9.25	92.55	Trap/Vee/Rect Channel Flow,		
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'		
					n= 0.050 Mountain streams w/large boulders		
0.3	249	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,		
0.0	0	300	(10	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'		
					n= 0.050 Mountain streams w/large boulders		
18.0	3,739	Total			0.000 mountain on our no margo bouldoro		
10.0	0,700	iotai					

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Summary for Subcatchment 75S: WS5

Runoff = 3.20 cfs @ 12.31 hrs, Volume= 0.345 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 10-Year Rainfall=3.40"

 Area	(ac) C	N Desc	cription		
0.	012 9			ious, HSG	
0.	032 7	'8 Exist	ing meado	ow, non-gra	azed, HSG D
 3.	009 7	7 Exist	ing Wood	s, Good, H	SG D
3.	053 7	7 Weig	hted Aver	age	
	041		1% Pervio		
0.	012	0.39°	% Impervi	ous Area	
_					
	Length	Slope	Velocity		Description
 (min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
11.0	36	0.0800	0.05		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
8.0	35	0.0800	0.71		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.5	169	0.2000	1.12		Shallow Concentrated Flow,
- -	074	0.4000	0.70		Forest w/Heavy Litter Kv= 2.5 fps
5.7	271	0.1000	0.79		Shallow Concentrated Flow,
4.3	240	0.4400	0.04		Forest w/Heavy Litter Kv= 2.5 fps
4.3	240	0.1400	0.94		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
8.1	345	0.0800	0.71		Shallow Concentrated Flow,
0.1	343	0.0000	0.7 1		Forest w/Heavy Litter Kv= 2.5 fps
1.4	87	0.1700	1.03		Shallow Concentrated Flow,
1	01	0.1700	1.00		Forest w/Heavy Litter Kv= 2.5 fps
0.1	88	0.1400	18.40	55.21	Trap/Vee/Rect Channel Flow,
• • •					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022 Earth, clean & straight
33.9	1,271	Total			, <u> </u>

Summary for Subcatchment 76S: WS6

Runoff = 26.28 cfs @ 12.37 hrs, Volume= 3.138 af, Depth= 1.29"

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Area	(ac) C	N Des	cription					
0.	0.537 71 Existing meadow, non-grazed, HSG C							
3.	3.855 70 Existing Woods, Good, HSG C							
				vious, HSG				
	3.372 78 Existing meadow, non-grazed, HSG D							
21.	062 7	7 Exis	ting Wood	s, Good, H	SG D			
			ghted Aver					
	826		1% Pervio					
0.	287	0.99	% Impervi	ous Area				
_		-						
Tc	Length	Slope	Velocity	Capacity	Description			
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)				
10.8	50	0.1600	0.08		Sheet Flow,			
	4.0	0.4000	4.00		Woods: Dense underbrush n= 0.800 P2= 2.40"			
0.2	10	0.1600	1.00		Shallow Concentrated Flow,			
2.0	4.45	0.0000	4.00		Forest w/Heavy Litter Kv= 2.5 fps			
2.0	145	0.2300	1.20		Shallow Concentrated Flow,			
6.7	333	0.1100	0.83		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,			
0.7	333	0.1100	0.03		Forest w/Heavy Litter Kv= 2.5 fps			
9.8	441	0.0900	0.75		Shallow Concentrated Flow,			
3.0	771	0.0300	0.75		Forest w/Heavy Litter Kv= 2.5 fps			
4.8	290	0.1600	1.00		Shallow Concentrated Flow,			
1.0	200	0.1000	1.00		Forest w/Heavy Litter Kv= 2.5 fps			
0.3	290	0.2200	15.35	153.47	Trap/Vee/Rect Channel Flow,			
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'			
					n= 0.050 Mountain streams w/large boulders			
0.8	681	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,			
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'			
					n= 0.050 Mountain streams w/large boulders			
0.5	418	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,			
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'			
					n= 0.050 Mountain streams w/large boulders			
1.0	729	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,			
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'			
0.7	405	0.4000	44.00	447.07	n= 0.050 Mountain streams w/large boulders			
0.7	465	0.1300	11.80	117.97	Trap/Vee/Rect Channel Flow,			
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'			
1.0	466	0.0600	8.01	80.15	n= 0.050 Mountain streams w/large boulders Trap/Vee/Rect Channel Flow,			
1.0	400	0.0000	0.01	00.13	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'			
					n= 0.050 Mountain streams w/large boulders			
0.1	85	0.0500	11.00	32.99	Trap/Vee/Rect Channel Flow,			
0.1	00	3.0000	11.00	02.00	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
					n= 0.022 Earth, clean & straight			
38.7	4,403	Total						
50.7	7,-700	i otai						

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Summary for Subcatchment 77S: WS7

Runoff = 19.98 cfs @ 12.52 hrs, Volume= 2.861 af, Depth= 1.29"

 Area (ac)	CN	Description
0.688	71	Existing meadow, non-grazed, HSG C
5.100	70	Existing Woods, Good, HSG C
0.250	98	Existing impervious, HSG D
3.025	78	Existing meadow, non-grazed, HSG D
 17.484	77	Existing Woods, Good, HSG D
26.547	76	Weighted Average
26.297		99.06% Pervious Area
0.250		0.94% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	64	0.2700	0.10	, ,	Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
4.0	312	0.2700	1.30		Shallow Concentrated Flow,
	• • •				Forest w/Heavy Litter Kv= 2.5 fps
5.8	360	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
12.6	565	0.0900	0.75		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
11.0	406	0.0600	0.61		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.9	185	0.4100	1.60		Shallow Concentrated Flow,
_					Forest w/Heavy Litter Kv= 2.5 fps
0.3	324	0.3000	17.92	179.21	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.3	279	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,
				_	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.4	330	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.3	224	0.1100	10.85	108.52	
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.2	139	0.1200	11.33	113.34	
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.4	287	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.5	361	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.6	417	0.1100	10.85	108.52	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.6	253	0.0500	7.32	73.16	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.1	130	0.0800	21.03	210.33	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.022 Earth, clean & straight
49.7	4,636	Total			

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Summary for Subcatchment 78S: WS8

Runoff = 1.09 cfs @ 11.91 hrs, Volume= 0.047 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 10-Year Rainfall=3.40"

	rea ((ac) C	N Des	cription		
0.066 98 Existing impervious, HSG D						
	0.0	047 7				azed, HSG D
	0.2	230 7	77 Exis	ting Wood	s, Good, H	SG D
	0.3	343 8	31 Weig	ghted Aver	age	
	0.2	277	80.7	6% Pervio	us Area	
	0.0	066	19.2	4% Imper\	/ious Area	
	_					
,	Tc	Length	Slope	Velocity	Capacity	Description
<u>(n</u>	nin)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	8.0	40	0.1000	0.79		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.2	11	0.1000	0.79		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.4	276	0.0600	12.05	36.14	•
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022 Earth, clean & straight
	1.4	327	Total			

Summary for Subcatchment 79S: WS9

Runoff = 5.70 cfs @ 12.53 hrs, Volume= 0.833 af, Depth= 1.23"

_	Area (ac)	CN	Description
	0.078	71	Existing meadow, non-grazed, HSG C
	2.614	70	Existing Woods, Good, HSG C
	0.184	98	Existing impervious, HSG D
	0.343	78	Existing meadow, non-grazed, HSG D
_	4.898	77	Existing Woods, Good, HSG D
	8.117	75	Weighted Average
	7.933		97.73% Pervious Area
	0.184		2.27% Impervious Area

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<u>(n</u>	Tc nin)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1	0.5	27	0.0500	0.04		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	8.4	283	0.0500	0.56		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	7.3	583	0.2800	1.32		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	6.0	403	0.2000	1.12		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	9.2	554	0.1600	1.00		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	2.2	172	0.2700	1.30		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	6.5	350	0.1300	0.90		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.4	411	0.1000	15.55	46.66	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022 Earth, clean & straight
5	0.5	2,783	Total			

Summary for Subcatchment 80S: WS10

Runoff = 1.38 cfs @ 12.07 hrs, Volume= 0.090 af, Depth= 1.42"

Area	(ac) C	N Des	cription					
0.	027 9	8 Exis	Existing impervious, HSG D					
0.	044 7				azed, HSG D			
0.	687 7			s, Good, H				
	758 7	'8 Weid	hted Aver	age				
_	731	•	4% Pervio	0				
_	027		% Impervi					
0.	02.	0.00	, opo	040704				
Tc	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	2			
10.8	70	0.3100	0.11	,	Sheet Flow,			
	. •	0.0.00	• • • • • • • • • • • • • • • • • • • •		Woods: Dense underbrush n= 0.800 P2= 2.40"			
0.8	65	0.3100	1.39		Shallow Concentrated Flow,			
0.0		0.0.00			Forest w/Heavy Litter Kv= 2.5 fps			
3.1	187	0.1600	1.00		Shallow Concentrated Flow,			
0		0000			Forest w/Heavy Litter Kv= 2.5 fps			
0.1	102	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow,			
U. 1		3200		J	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
					n= 0.022 Earth, clean & straight			
14.8	424	Total			,			

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Summary for Subcatchment 81S: WS11

Runoff 8.37 cfs @ 12.94 hrs, Volume= 1.726 af, Depth= 1.23"

_	Area	(ac) C	N Des	cription						
	0.245 98 Existing impervious, HSG D									
	1.349 71 Existing meadow, non-grazed, HSG C									
	2.297 78 Existing meadow, non-grazed, HSG D									
				Existing Woods, Good, HSG C						
_				Existing Woods, Good, HSG D						
				ghted Aver						
		570		4% Pervio						
	0.	245	1.46	% Impervi	ous Area					
	т.	1	Ol	\	0	Description				
	Tc	Length	Slope	Velocity	Capacity	Description				
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	10.8	65	0.2700	0.10		Sheet Flow,				
	4 -	000	0.0700	4.00		Woods: Dense underbrush n= 0.800 P2= 2.40"				
	4.7	366	0.2700	1.30		Shallow Concentrated Flow,				
	0.4	507	0.4500	0.07		Forest w/Heavy Litter Kv= 2.5 fps				
	9.1	527	0.1500	0.97		Shallow Concentrated Flow,				
	5.5	398	0.2300	1.20		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,				
	5.5	390	0.2300	1.20		Forest w/Heavy Litter Kv= 2.5 fps				
	17.0	763	0.0900	0.75		Shallow Concentrated Flow,				
	17.0	700	0.0000	0.70		Forest w/Heavy Litter Kv= 2.5 fps				
	3.6	211	0.1500	0.97		Shallow Concentrated Flow,				
	0.0			0.0.		Forest w/Heavy Litter Kv= 2.5 fps				
	5.2	377	0.2300	1.20		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	8.2	506	0.1700	1.03		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	5.2	368	0.2200	1.17		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	4.9	220	0.0900	0.75		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	6.1	401	0.1900	1.09		Shallow Concentrated Flow,				
	0.4	000	0.0000	00.04	000.00	Forest w/Heavy Litter Kv= 2.5 fps				
	0.1	200	0.0900	22.31	223.09	Trap/Vee/Rect Channel Flow,				
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
_		4 400				n= 0.022 Earth, clean & straight				
	80.4	4,402	Total							

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Summary for Subcatchment 82S: WS12

Runoff = 8.97 cfs @ 12.32 hrs, Volume= 1.001 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 10-Year Rainfall=3.40"

Area	(ac) C	N Desc	cription					
0.	0.280 71 Existing meadow, non-grazed, HSG C							
3.976 70 Existing Woods, Good, HSG C								
	0.220 98 Existing impervious, HSG D							
					azed, HSG D			
4	.244 7	77 Exis	ting Wood	s, Good, H	SG D			
			ghted Aver					
	.535	_	4% Pervio					
0.	.220	2.26	% Impervi	ous Area				
_		0.1						
Tc	Length	Slope	Velocity		Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
10.7	41	0.1100	0.06		Sheet Flow,			
0.4	000	0.4400	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"			
6.4	320	0.1100	0.83		Shallow Concentrated Flow,			
0.0	500	0.0000	4 47		Forest w/Heavy Litter Kv= 2.5 fps			
8.0	562	0.2200	1.17		Shallow Concentrated Flow,			
4.7	290	0.1700	1.03		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,			
4.7	290	0.1700	1.03		Forest w/Heavy Litter Kv= 2.5 fps			
3.8	281	0.2400	1.22		Shallow Concentrated Flow,			
3.0	201	0.2400	1.22		Forest w/Heavy Litter Kv= 2.5 fps			
0.3	261	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,			
0.0	201	0.1000	10.00	100.00	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'			
					n= 0.050 Mountain streams w/large boulders			
0.4	284	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,			
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'			
					n= 0.050 Mountain streams w/large boulders			
0.4	261	0.0500	11.00	32.99	Trap/Vee/Rect Channel Flow,			
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
					n= 0.022 Earth, clean & straight			
34.7	2,300	Total						

Summary for Subcatchment 83S: WS13

Runoff = 8.27 cfs @ 13.26 hrs, Volume= 2.067 af, Depth= 1.11"

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Area	(ac) C	N Des	cription					
4.203 71 Existing meadow, non-grazed, HSG C 9.072 70 Existing Woods, Good, HSG C								
	.072 7							
				∕ious, HSG				
			Existing meadow, non-grazed, HSG D					
				s, Good, H	SG D			
			ghted Aver					
	.050		5% Pervio					
0	.235	1.05	% Impervi	ous Area				
То	Longth	Clana	Volocity	Canacity	Description			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description			
		0.3700	0.12	(CIS)	Shoot Flow			
10.8	76	0.3700	0.12		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.40"			
5.9	537	0.3700	1.52		Shallow Concentrated Flow,			
5.9	331	0.5700	1.02		Forest w/Heavy Litter Kv= 2.5 fps			
6.5	448	0.2100	1.15		Shallow Concentrated Flow,			
0.0	110	0.2100	1.10		Forest w/Heavy Litter Kv= 2.5 fps			
9.2	645	0.2200	1.17		Shallow Concentrated Flow,			
•					Forest w/Heavy Litter Kv= 2.5 fps			
6.6	497	0.2500	1.25		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
9.2	536	0.1500	0.97		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
6.2	434	0.2200	1.17		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
15.1	714	0.1000	0.79		Shallow Concentrated Flow,			
40.0	0.40	0.4000	4.00		Forest w/Heavy Litter Kv= 2.5 fps			
10.2	649	0.1800	1.06		Shallow Concentrated Flow,			
9.9	645	0.1900	1.09		Forest w/Heavy Litter Kv= 2.5 fps			
9.9	043	0.1900	1.09		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps			
4.5	307	0.2100	1.15		Shallow Concentrated Flow,			
4.5	307	0.2100	1.10		Forest w/Heavy Litter Kv= 2.5 fps			
5.8	328	0.1400	0.94		Shallow Concentrated Flow,			
0.0	020	300	0.0 1		Forest w/Heavy Litter Kv= 2.5 fps			
0.5	199	0.0200	6.96	20.87	Trap/Vee/Rect Channel Flow,			
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
					n= 0.022 Earth, clean & straight			
100.4	6,015	Total						

Summary for Subcatchment 84S: WS14

Runoff = 3.45 cfs @ 12.29 hrs, Volume= 0.368 af, Depth= 1.23"

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Area	(ac) C	N Desc	cription				
0.691 71 Existing meadow, non-grazed, HSG C							
0.959 70 Existing Woods, Good, HSG C							
0.	.182 9	8 Exist	ting imper	vious, HSG	D		
					azed, HSG D		
1	.524 7	7 Exist	ting Wood	s, Good, H	SG D		
3.	.587 7		hted Aver				
	.405		3% Pervio				
0.	.182	5.07	% Impervi	ous Area			
_							
Tc	Length	Slope	Velocity		Description		
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)			
10.8	45	0.1300	0.07		Sheet Flow,		
0.4	•	0.4000	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"		
0.1	8	0.1300	0.90		Shallow Concentrated Flow,		
5.1	250	0.2100	1.15		Forest w/Heavy Litter Kv= 2.5 fps		
5.1	350	0.2100	1.15		Shallow Concentrated Flow,		
5.8	313	0.1300	0.90		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,		
5.0	313	0.1300	0.90		Forest w/Heavy Litter Kv= 2.5 fps		
4.2	294	0.2200	1.17		Shallow Concentrated Flow,		
7.2	204	0.2200	1.17		Forest w/Heavy Litter Kv= 2.5 fps		
3.0	168	0.1400	0.94		Shallow Concentrated Flow,		
					Forest w/Heavy Litter Kv= 2.5 fps		
3.4	163	0.1000	0.79		Shallow Concentrated Flow,		
					Forest w/Heavy Litter Kv= 2.5 fps		
0.1	60	0.0500	11.00	32.99	Trap/Vee/Rect Channel Flow,		
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'		
					n= 0.022 Earth, clean & straight		
32.5	1,401	Total					

Summary for Subcatchment 85S: WS15

Runoff = 14.75 cfs @ 13.14 hrs, Volume= 3.463 af, Depth= 1.11"

Area (ac)	CN	Description
8.870	71	Existing meadow, non-grazed, HSG C
16.898	70	Existing Woods, Good, HSG C
0.067	98	Existing impervious, HSG D
2.332	78	Existing meadow, non-grazed, HSG D
9.172	77	Existing Woods, Good, HSG D
37.339	73	Weighted Average
37.272		99.82% Pervious Area
0.067		0.18% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	72	0.3300	0.11	, ,	Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
6.8	586	0.3300	1.44		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
7.9	673	0.3200	1.41		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
9.6	625	0.1900	1.09		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
8.9	664	0.2500	1.25		Shallow Concentrated Flow,
0.0	40.4	0.4000	0.00		Forest w/Heavy Litter Kv= 2.5 fps
8.9	484	0.1300	0.90		Shallow Concentrated Flow,
40.7	700	0.4000	4.00		Forest w/Heavy Litter Kv= 2.5 fps
10.7	700	0.1900	1.09		Shallow Concentrated Flow,
10.6	529	0.1100	0.83		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
10.6	529	0.1100	0.03		Forest w/Heavy Litter Kv= 2.5 fps
11.6	717	0.1700	1.03		Shallow Concentrated Flow,
11.0	7 17	0.1700	1.03		Forest w/Heavy Litter Kv= 2.5 fps
0.7	573	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
0.7	373	0.1700	10.70	104.51	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.5	386	0.1800	13.88	138.82	Trap/Vee/Rect Channel Flow,
0.0	000	0000	10.00	.00.02	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
2.2	150	0.2000	1.12		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.8	119	0.0800	0.71		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
92.0	6,278	Total			-

Summary for Subcatchment 86S: WS16

Runoff = 0.96 cfs @ 12.04 hrs, Volume= 0.056 af, Depth= 1.63"

 Area (ac)	CN	Description
0.078	98	Existing impervious, HSG D
0.048	78	Existing meadow, non-grazed, HSG D
 0.290	77	Existing Woods, Good, HSG D
 0.416	81	Weighted Average
0.338		81.25% Pervious Area
0.078		18.75% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	10.7	51	0.1700	0.08		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	1.0	63	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.2	153	0.0700	13.01	39.04	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_						n= 0.022 Earth, clean & straight
	11.9	267	Total			

Summary for Subcatchment 87S: WS17

Runoff = 5.72 cfs @ 12.36 hrs, Volume= 0.685 af, Depth= 1.11"

Area ((ac) C	N Desc	cription								
0.	0.194 98 Existing impervious, HSG D										
1.	1.145 71 Existing meadow, non-grazed, HSG C										
0.4	402 7				azed, HSG D						
				s, Good, H							
1.	738 7	7 Exist	ting Wood	s, Good, H	SG D						
		'3 Weig	ghted Aver	age							
	192		7% Pervio								
0.	194	2.63	% Impervi	ous Area							
_					—						
Tc	Length	Slope		Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
10.6	44	0.1300	0.07		Sheet Flow,						
0.0	504	0.4000	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"						
9.8	531	0.1300	0.90		Shallow Concentrated Flow,						
1.5	236	0.1500	2.71		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,						
1.5	230	0.1300	2.7 1		Short Grass Pasture Kv= 7.0 fps						
5.8	372	0.1800	1.06		Shallow Concentrated Flow,						
0.0	012	0.1000	1.00		Forest w/Heavy Litter Kv= 2.5 fps						
4.7	290	0.1700	1.03		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
2.6	437	0.1600	2.80		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
1.8	142	0.2700	1.30		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
0.3	238	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,						
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'						
					n= 0.050 Mountain streams w/large boulders						
37.1	2,290	Total									

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Summary for Subcatchment 88S: WS18

Runoff = 1.48 cfs @ 12.22 hrs, Volume= 0.141 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 10-Year Rainfall=3.40"

Area	(ac) C	N Desc	cription			
0.172 71 Existing meadow, non-grazed, HSG C						
1.	.110 7		•	s, Good, H		
0.	.021 9			∕ious, HSG		
0.	.028				azed, HSG D	
0.	.268			s, Good, H		
1	.599	72 Weid	hted Aver	age		
	.578		9% Pervio	•		
	.021	1.31	% Impervi	ous Area		
-						
Tc	Length	Slope	Velocity	Capacity	Description	
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		
10.8	57	0.2100	0.09	, ,	Sheet Flow,	
	•	0.2.00	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"	
1.0	68	0.2100	1.15		Shallow Concentrated Flow,	
					Forest w/Heavy Litter Kv= 2.5 fps	
3.9	218	0.1400	0.94		Shallow Concentrated Flow,	
					Forest w/Heavy Litter Kv= 2.5 fps	
4.7	281	0.1600	1.00		Shallow Concentrated Flow,	
					Forest w/Heavy Litter Kv= 2.5 fps	
4.3	258	0.1600	1.00		Shallow Concentrated Flow,	
					Forest w/Heavy Litter Kv= 2.5 fps	
1.4	96	0.2100	1.15		Shallow Concentrated Flow,	
					Forest w/Heavy Litter Kv= 2.5 fps	
26.1	978	Total	_			

Summary for Subcatchment 89S: WS20

Runoff = 24.64 cfs @ 12.61 hrs, Volume= 3.905 af, Depth= 1.17"

 Area (ac)	CN	Description
1.023	98	Existing impervious, HSG C
0.436	98	Existing impervious, HSG D
6.987	71	Existing meadow, non-grazed, HSG C
6.713	78	Existing meadow, non-grazed, HSG D
16.006	70	Existing Woods, Good, HSG C
 8.839	77	Existing Woods, Good, HSG D
40.004	74	Weighted Average
38.545		96.35% Pervious Area
1.459		3.65% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08	, ,	Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
3.9	242	0.1700	1.03		Shallow Concentrated Flow,
4.0	070	0.0500	0.50		Forest w/Heavy Litter Kv= 2.5 fps
1.3	278	0.2500	3.50		Shallow Concentrated Flow,
1.0	250	0.4200	2.42		Short Grass Pasture Kv= 7.0 fps
1.8	258	0.1200	2.42		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.9	13/	0.1300	2.52		Shallow Concentrated Flow,
0.9	104	0.1300	2.52		Short Grass Pasture Kv= 7.0 fps
0.4	77	0.2600	3.57		Shallow Concentrated Flow,
0.1		0.2000	0.07		Short Grass Pasture Kv= 7.0 fps
1.0	165	0.1700	2.89		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
2.4	177	0.2400	1.22		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.6	237	0.1300	2.52		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
1.7	232	0.1000	2.21		Shallow Concentrated Flow,
40.7	544	0.0700	0.00		Short Grass Pasture Kv= 7.0 fps
13.7	544	0.0700	0.66		Shallow Concentrated Flow,
7.4	222	0.0900	0.75		Forest w/Heavy Litter Kv= 2.5 fps
7.4	332	0.0900	0.75		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
3.5	188	0.1300	0.90		Shallow Concentrated Flow,
0.0	100	0.1000	0.00		Forest w/Heavy Litter Kv= 2.5 fps
3.5	252	0.2300	1.20		Shallow Concentrated Flow,
0.0		0.2000	•		Forest w/Heavy Litter Kv= 2.5 fps
0.4	298	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.2	200	0.1800	13.88	138.82	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
			40.0-		n= 0.050 Mountain streams w/large boulders
0.3	229	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.3	227	0.1600	13.09	130.88	n= 0.050 Mountain streams w/large boulders
0.3	221	0.1000	13.09	130.00	Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.3	242	0.1300	11.80	117.97	Trap/Vee/Rect Channel Flow,
0.0	<u> </u>	5555			Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
55.5	4,364	Total			

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Summary for Subcatchment 90S: WS21

Runoff = 4.58 cfs @ 12.40 hrs, Volume= 0.578 af, Depth= 1.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 10-Year Rainfall=3.40"

Area	(ac) C	N Desc	cription						
0.	0.020 98 Existing impervious, HSG D								
0.	0.181 71 Existing meadow, non-grazed, HSG C								
0.	0.412 78 Existing meadow, non-grazed, HSG D								
3.	.099 7			s, Good, H					
2.	.516 7	7 Exist	ting Wood	s, Good, H	SG D				
			ghted Aver						
	.208		8% Pervio						
0.	.020	0.32	% Impervi	ous Area					
_									
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
10.9	40	0.1000	0.06		Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
3.6	173	0.1000	0.79		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
5.3	356	0.2000	1.12		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
4.5	262	0.1500	0.97		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
2.2	150	0.2000	1.12		Shallow Concentrated Flow,				
0.5	004	0.4400	0.04		Forest w/Heavy Litter Kv= 2.5 fps				
6.5	364	0.1400	0.94		Shallow Concentrated Flow,				
0.0	400	0.4500	0.07		Forest w/Heavy Litter Kv= 2.5 fps				
3.3	189	0.1500	0.97		Shallow Concentrated Flow,				
3.5	104	0.1400	0.04		Forest w/Heavy Litter Kv= 2.5 fps				
3.5	194	0.1400	0.94		Shallow Concentrated Flow,				
0.1	69	0.0300	8.52	25.56	Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow,				
0.1	09	0.0300	0.32	25.50	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.022 Earth, clean & straight				
20.0	1 707	Total			11- 0.022 Latti, Olcan & Straight				
39.9	1,797	Total							

Summary for Subcatchment 91S: WS22

Runoff = 6.22 cfs @ 12.47 hrs, Volume= 0.850 af, Depth= 1.36"

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Area	(ac) C	N Desc	cription						
0.	0.074 98 Existing impervious, HSG D								
0.307 71 Existing meadow, non-grazed, HSG C									
2.	2.930 78 Existing meadow, non-grazed, HSG D								
0.	.876 7			s, Good, H					
3.	.329 7	77 Exist	ting Wood	s, Good, H	SG D				
7.	.516 7	77 Weig	ghted Aver	age					
7.	.442	99.0	2% Pervio	us Area					
0.	.074	0.98	% Impervi	ous Area					
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
10.9	42	0.1100	0.06		Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
5.8	290	0.1100	0.83		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
5.3	266	0.1100	0.83		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
7.0	395	0.1400	0.94		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
5.2	315	0.1600	1.00		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
6.4	382	0.1600	1.00		Shallow Concentrated Flow,				
0.5	077	0.4500	0.07		Forest w/Heavy Litter Kv= 2.5 fps				
6.5	377	0.1500	0.97		Shallow Concentrated Flow,				
0.4	4.4	0.0000	0.00	00.07	Forest w/Heavy Litter Kv= 2.5 fps				
0.1	44	0.0200	6.96	20.87	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
	0.444				n= 0.022 Earth, clean & straight				
47.3	2,111	Total							

Summary for Subcatchment 92S: WS23

Runoff = 2.95 cfs @ 12.24 hrs, Volume= 0.285 af, Depth= 1.29"

Area (ac)	CN	Description
0.039	98	Existing impervious, HSG D
0.363	71	Existing meadow, non-grazed, HSG C
0.449	78	Existing meadow, non-grazed, HSG D
0.148	70	Existing Woods, Good, HSG C
1.643	77	Existing Woods, Good, HSG D
2.642	76	Weighted Average
2.603		98.52% Pervious Area
0.039		1.48% Impervious Area

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(r	Tc min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
•	10.8	50	0.1600	0.08		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	3.5	212	0.1600	1.00		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.3	247	0.1500	0.97		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.6	267	0.1500	0.97		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	5.0	280	0.1400	0.94		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.1	66	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022 Earth, clean & straight
2	28.3	1,122	Total			

Summary for Subcatchment 93S: WS1A

Runoff = 3.62 cfs @ 12.24 hrs, Volume= 0.348 af, Depth= 1.36"

_	Area	(ac) C	N Des	cription		
	0.	011 7	'8 Exis	ting meado	ow, non-gra	azed, HSG D
_	3.	065 7	7 Exis	ting Wood	s, Good, H	SG D
	3.	076 7	'7 Wei	ghted Aver	age	
	3.	076	100.	00% Pervi	ous Area	
	Tc	Length	Slope	Velocity	Capacity	Description
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	10.9	31	0.0600	0.05		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	5.2	191	0.0600	0.61		Shallow Concentrated Flow,
			0.4400	0.04		Forest w/Heavy Litter Kv= 2.5 fps
	1.1	59	0.1400	0.94		Shallow Concentrated Flow,
	4.0	400	0.0700	0.00		Forest w/Heavy Litter Kv= 2.5 fps
	4.9	193	0.0700	0.66		Shallow Concentrated Flow,
	4.1	161	0.0700	0.66		Forest w/Heavy Litter Kv= 2.5 fps
	4.1	161	0.0700	0.66		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
	2.2	107	0.1100	0.83		Shallow Concentrated Flow,
	۷.۷	101	0.1100	0.00		Forest w/Heavy Litter Kv= 2.5 fps
	0.1	79	0.0500	9.26	314.98	Trap/Vee/Rect Channel Flow,
	0.1	7.5	0.0000	3.20	014.00	Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'
						n= 0.050 Mountain streams w/large boulders
-	28.5	821	Total			c.occcacacacacac
	20.0	021	· Otal			

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Summary for Subcatchment 94S: WS1B

Runoff = 15.81 cfs @ 12.07 hrs, Volume= 1.004 af, Depth= 1.42"

Area	(ac) C	N Desc	cription							
0.	0.425 98 Existing impervious, HSG D									
					azed, HSG D					
7.	7.619 77 Existing Woods, Good, HSG D									
8.	8.471 78 Weighted Average									
	046	94.9	8% Pervio	us Area						
0.	425	5.02	% Impervi	ous Area						
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.9	38	0.0900	0.06		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
0.4	336	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
0.4	339	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
0.4	000	0.0700	40.04	00.04	n= 0.022 Earth, clean & straight					
0.4	336	0.0700	13.01	39.04	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
0.4	278	0.0600	12.05	36.14	n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow,					
0.4	210	0.0000	12.03	30.14	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
0.4	283	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,					
0.4	203	0.0000	12.03	30.14	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
0.1	118	0.0800	13.91	41.73	Trap/Vee/Rect Channel Flow,					
0.1	110	0.0000	10.51	41.70	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
0.2	164	0.0700	13.01	39.04	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
0.1	83	0.1400	18.40	55.21	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/ Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
8.0	505	0.0600	10.15	345.05	Trap/Vee/Rect Channel Flow,					
					Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'					
					n= 0.050 Mountain streams w/large boulders					
14.1	2,480	Total								

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Summary for Subcatchment 95S: WS1C

Runoff = 17.63 cfs @ 12.47 hrs, Volume= 2.354 af, Depth= 1.63"

 Area (ac)	CN	Description
 3.281	98	Existing impervious, HSG D
3.704	78	Existing meadow, non-grazed, HSG D
 10.364	77	Existing Woods, Good, HSG D
17.349	81	Weighted Average
14.068		81.09% Pervious Area
3.281		18.91% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	48	0.1500	0.07	, ,	Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
3.0	172	0.1500	0.97		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.9	164	0.0500	0.56		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.9	77	0.3100	1.39		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.2	157	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
	0.50		40.05	00.44	n= 0.022 Earth, clean & straight
0.5	350	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.0	0.40	0.0000	44.75	44.00	n= 0.022 Earth, clean & straight
0.2	219	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.0	054	0.0000	4475	44.00	n= 0.022 Earth, clean & straight
0.3	251	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.4	246	0.0000	40.05	26.44	n= 0.022 Earth, clean & straight
0.4	310	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.1	70	0.4000	24.44	64.24	n= 0.022 Earth, clean & straight
0.1	73	0.1900	21.44	64.31	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.4	300	0.0700	13.01	39.04	n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow,
0.4	300	0.0700	13.01	39.04	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022 Earth, clean & straight
0.4	179	0.0200	6.96	20.87	Trap/Vee/Rect Channel Flow,
0.4	170	0.0200	0.00	20.07	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022 Earth, clean & straight
10.2	342	0.0500	0.56		Shallow Concentrated Flow,
	0.2	0.0000	0.00		Forest w/Heavy Litter Kv= 2.5 fps
5.2	236	0.0900	0.75		Shallow Concentrated Flow,
· · -			00		Forest w/Heavy Litter Kv= 2.5 fps
4.7	199	0.0800	0.71		Shallow Concentrated Flow,
			• • • • • • • • • • • • • • • • • • • •		Forest w/Heavy Litter Kv= 2.5 fps
4.7	224	0.1000	0.79		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.6	360	0.0800	9.25	92.55	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/ Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
47.4	3,667	Total			

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Summary for Subcatchment 96S: WS1D

Runoff = 62.04 cfs @ 12.44 hrs, Volume= 8.148 af, Depth= 1.23"

Area (ac)	CN	Description
4.794	98	Existing impervious, HSG C
1.682	98	Existing impervious, HSG D
15.372	71	Existing meadow, non-grazed, HSG C
10.464	78	Existing meadow, non-grazed, HSG D
27.478	70	Existing Woods, Good, HSG C
19.608	77	Existing Woods, Good, HSG D
79.398	75	Weighted Average
72.922		91.84% Pervious Area
6.476		8.16% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.2300	0.27		Sheet Flow,
					Grass: Dense n= 0.240 P2= 2.40"
1.9	388	0.2300	3.36		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
4.4	312	0.2200	1.17		Shallow Concentrated Flow,
	4.40	0.4400	0.04		Forest w/Heavy Litter Kv= 2.5 fps
7.8	440	0.1400	0.94		Shallow Concentrated Flow,
0.4	400	0.1100	40.04	40.04	Forest w/Heavy Litter Kv= 2.5 fps
0.1	123	0.1100	16.31	48.94	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022 Earth, clean & straight
0.6	266	0.1300	7.32		Shallow Concentrated Flow,
0.0	200	0.1000	7.02		Paved Kv= 20.3 fps
6.2	457	0.2400	1.22		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.1	130	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022 Earth, clean & straight
0.4	378	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.0	050	0.0000	44.75	44.00	n= 0.022 Earth, clean & straight
0.3	258	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.3	263	0.1200	17.04	51.11	n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow,
0.3	203	0.1200	17.04	31.11	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022 Earth, clean & straight
4.2	242	0.1500	0.97		Shallow Concentrated Flow,
		0000	0.0.		Forest w/Heavy Litter Kv= 2.5 fps
2.3	150	0.1900	1.09		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.6	256	0.1400	0.94		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.4	314	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.5	070	0.4400	40.04	400.40	n= 0.050 Mountain streams w/large boulders
0.5	3/3	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	447	0.1200	11.33	113.34	Trap/Vee/Rect Channel Flow,
0.1	771	0.1200	11.00	110.04	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
1.1	658	0.0900	9.82	98.16	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.7	390	0.0500	8.83	212.04	Trap/Vee/Rect Channel Flow,
					Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00'
2.2	505	0.0000	40.45	0.45.05	n= 0.050 Mountain streams w/large boulders
8.0	505	0.0600	10.15	345.05	Trap/Vee/Rect Channel Flow,
					Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'

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n= 0.050 Mountain streams w/large boulders

43.6 6,450 Total

Summary for Subcatchment 97S: WS24

Runoff = 8.39 cfs @ 12.53 hrs, Volume= 1.205 af, Depth= 1.42"

	Area ((ac) C	N Des	cription						
	0.4	457 9	8 Exis	ting imper	vious, HSG	D				
	0.3					azed, HSG C				
3.359 78 Existing meadow, non-grazed, HSG D										
	0.0	012 7	0 Exis	Existing Woods, Good, HSG C						
	5.9	942 7	7 Exis	ting Wood	s, Good, H	SG D				
	10.	169 7	'8 Weid	hted Aver	age					
	9.	712		1% Pervio						
	0.4	457	4.49	% Impervi	ous Area					
				•						
	Tc	Length	Slope	Velocity	Capacity	Description				
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	·				
	10.7	43	0.1200	0.07		Sheet Flow,				
						Woods: Dense underbrush n= 0.800 P2= 2.40"				
	11.8	613	0.1200	0.87		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	8.9	420	0.1000	0.79		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	2.5	139	0.1400	0.94		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	2.2	108	0.1100	0.83		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	4.2	227	0.1300	0.90		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	1.4	240	0.1600	2.80		Shallow Concentrated Flow,				
						Short Grass Pasture Kv= 7.0 fps				
	1.2	201	0.1600	2.80		Shallow Concentrated Flow,				
						Short Grass Pasture Kv= 7.0 fps				
	3.9	225	0.1500	0.97		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	4.3	242	0.1400	0.94		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	0.0	19	0.2100	12.09	36.28	Trap/Vee/Rect Channel Flow,				
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
						n= 0.041 Riprap, 2-inch				
	51.1	2,477	Total							

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Summary for Subcatchment 98S: WS19

Runoff 4.87 cfs @ 12.50 hrs, Volume= 0.702 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 10-Year Rainfall=3.40"

Area	(ac) C	N Desc	cription					
0	.008 9			vious, HSG				
					azed, HSG C			
	0.384 78 Existing meadow, non-grazed, HSG D							
				s, Good, H				
-				s, Good, H	SG D			
			ghted Aver					
	.967		0% Pervio					
0	.008	0.10	% Impervi	ous Area				
т.	ما السميد ا	Clana	\/alaaitu	Consoitu	Decemention			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description			
				(615)	Chast Flow			
10.7	41	0.1100	0.06		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.40"			
5.3	262	0.1100	0.83		Shallow Concentrated Flow,			
0.0	202	0.1100	0.00		Forest w/Heavy Litter Kv= 2.5 fps			
7.3	422	0.1500	0.97		Shallow Concentrated Flow,			
			0.0.		Forest w/Heavy Litter Kv= 2.5 fps			
8.1	501	0.1700	1.03		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
3.1	213	0.2100	1.15		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
4.6	258	0.1400	0.94		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
7.7	465	0.1600	1.00		Shallow Concentrated Flow,			
• •			40.0-		Forest w/Heavy Litter Kv= 2.5 fps			
0.1	102	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,			
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
47.0	0.00:				n= 0.022 Earth, clean & straight			
47.0	2,264	Total						

Summary for Subcatchment 103S: WS 1CA

Runoff 22.70 cfs @ 12.02 hrs, Volume=

1.262 af, Depth= 2.01"

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Area	(ac) C	N Desc	cription					
	3.139 98 Existing impervious, HSG D							
					azed, HSG D			
				s, Good, H				
			ghted Aver		<u> </u>			
	.396		4% Pervio	•				
ა.	.139	41.0	6% imper	vious Area				
Тс	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Description			
1.1	100	0.0400	1.57	(013)	Shoot Flow			
1.1	100	0.0400	1.57		Sheet Flow,			
2.0	00	0.0400	0.50		Smooth surfaces n= 0.011 P2= 2.40"			
3.0	89	0.0400	0.50		Shallow Concentrated Flow,			
0.0	404	0.0000	4.07		Forest w/Heavy Litter Kv= 2.5 fps			
2.0	161	0.3000	1.37		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
0.4	391	0.0500	16.63	166.28	Trap/Vee/Rect Channel Flow,			
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'			
					n= 0.022 Earth, clean & straight			
3.6	208	0.1500	0.97		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
10.1	949	Total						

Summary for Subcatchment 106S: WS 1G

Runoff = 29.30 cfs @ 12.32 hrs, Volume= 3.298 af, Depth= 1.17"

_	Area (ac)	CN	Description
	0.906	71	Existing meadow, non-grazed, HSG C
	12.918	70	Existing Woods, Good, HSG C
	0.004	98	Existing impervious, HSG D
	3.805	78	Existing meadow, non-grazed, HSG D
_	16.155	77	Existing Woods, Good, HSG D
	33.788	74	Weighted Average
	33.784		99.99% Pervious Area
	0.004		0.01% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	8.0	100	0.1200	0.21		Sheet Flow,
	4.0	400	0.4000	0.40		Grass: Dense n= 0.240 P2= 2.40"
	1.3	182	0.1200	2.42		Shallow Concentrated Flow,
	4.7	112	0.4000	1.58		Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,
	4.7	443	0.4000	1.50		Forest w/Heavy Litter Kv= 2.5 fps
	0.6	118	0.2200	3.28		Shallow Concentrated Flow,
	0.0	110	O.LLOO	0.20		Short Grass Pasture Kv= 7.0 fps
	1.9	458	0.3200	3.96		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	8.9	564	0.1800	1.06		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.0	366	0.3700	1.52		Shallow Concentrated Flow,
	0.5	460	0.4000	4.00		Forest w/Heavy Litter Kv= 2.5 fps
	2.5	162	0.1900	1.09		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
	0.5	449	0.2000	14.63	146.33	Trap/Vee/Rect Channel Flow,
	0.5	773	0.2000	17.00	140.00	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050
	0.5	450	0.2000	14.63	146.33	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050
	0.5	408	0.2100	14.99	149.94	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	0.7		0.4500	40.07	400.70	n= 0.050
	0.7	554	0.1500	12.67	126.72	• • • • • • • • • • • • • • • • • • • •
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
	0.5	391	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,
	0.5	331	0.1000	13.03	150.00	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050
-	34.6	4,645	Total			
		.,				

Summary for Subcatchment 107S: WS 1H

Runoff = 36.48 cfs @ 12.61 hrs, Volume= 5.807 af, Depth= 1.17"

 Area (ac)	CN	Description
2.007	71	Existing meadow, non-grazed, HSG C
22.781	70	Existing Woods, Good, HSG C
4.416	78	Existing meadow, non-grazed, HSG D
 30.287	77	Existing Woods, Good, HSG D
59.491	74	Weighted Average
59.491		100.00% Pervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
 10.7	59	0.2300	0.09		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
1.5	105	0.2300	1.20		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.3	330	0.3600	4.20		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
2.3	212	0.3900	1.56		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.5	108	0.2400	3.43		Shallow Concentrated Flow,
4.0	0.40	0.0000	4.44		Short Grass Pasture Kv= 7.0 fps
4.0	346	0.3300	1.44		Shallow Concentrated Flow,
2.2	400	0.4500	0.07		Forest w/Heavy Litter Kv= 2.5 fps
3.3	190	0.1500	0.97		Shallow Concentrated Flow,
4.8	320	0.2000	1.12		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
4.0	320	0.2000	1.12		Forest w/Heavy Litter Kv= 2.5 fps
4.8	411	0.3200	1.41		Shallow Concentrated Flow,
4.0	711	0.0200	1.71		Forest w/Heavy Litter Kv= 2.5 fps
3.0	281	0.3900	1.56		Shallow Concentrated Flow,
0.0		0.000			Forest w/Heavy Litter Kv= 2.5 fps
3.2	255	0.2900	1.35		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.0	223	0.2400	1.22		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
10.3	601	0.1500	0.97		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.8	147	0.2900	1.35		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.5	403	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.4	0.40	0.4000	44.00	400.00	n= 0.050 Mountain streams w/large boulders
0.4	348	0.1600	14.26	199.63	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
0.5	165	0.1000	15 51	217 55	n= 0.050 Mountain streams w/large boulders
0.5	465	0.1900	15.54	217.55	Trap/Vee/Rect Channel Flow, Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.050 Mountain streams w/large boulders
 55 O	4,804	Total			11- 0.000 Mountain streams whatge boulders
55.9	4,004	างเลเ			

Summary for Subcatchment 108S: WS1F

Runoff = 27.39 cfs @ 12.51 hrs, Volume= 3.933 af, Depth= 1.17"

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Area	(ac) C	N Desc	cription		
0.	.002	8 Exis	ting imper	vious, HSG	C
				vious, HSG	
					azed, HSG C
					azed, HSG D
				s, Good, H	
				s, Good, H	SG D
	-		ghted Aver		
	.930		0% Pervio		
U.	.364	0.90	% Impervi	ous Area	
Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	'
10.9	52	0.1700	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
3.8	237	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.2	276	0.1900	1.09		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.7	148	0.0700	0.66		Shallow Concentrated Flow,
6.0	400	0.4500	0.07		Forest w/Heavy Litter Kv= 2.5 fps
6.9	402	0.1500	0.97		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
4.5	396	0.3500	1.48		Shallow Concentrated Flow,
4.0	000	0.0000	1.40		Forest w/Heavy Litter Kv= 2.5 fps
3.9	373	0.4000	1.58		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.1	334	0.3000	1.37		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.7	331	0.2200	1.17		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.4	341	0.2300	15.69	156.92	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.4	396	0.2200	15.35	153.47	n= 0.050 Mountain streams w/large boulders Trap/Vee/Rect Channel Flow,
0.4	390	0.2200	15.55	155.47	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.4	367	0.2300	15.69	156.92	Trap/Vee/Rect Channel Flow,
• • • • • • • • • • • • • • • • • • • •	•	0.2000			Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.5	394	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.2	144	0.2200	15.35	153.47	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	4 40 4	T ()			n= 0.050 Mountain streams w/large boulders
48.6	4,191	Total			

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Summary for Subcatchment 110S: WS1E

Runoff = 18.47 cfs @ 12.61 hrs, Volume= 2.959 af, Depth= 1.11"

 Area (ac)	CN	Description
0.328	98	Existing impervious, HSG C
0.082	98	Existing impervious, HSG D
3.846	71	Existing meadow, non-grazed, HSG C
4.272	78	Existing meadow, non-grazed, HSG D
17.223	70	Existing Woods, Good, HSG C
 6.150	77	Existing Woods, Good, HSG D
31.901	73	Weighted Average
31.491		98.71% Pervious Area
0.410		1.29% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	53	0.1800	0.08	, ,	Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	113	0.1800	1.06		Shallow Concentrated Flow,
0.0	454	0.0400	4.45		Forest w/Heavy Litter Kv= 2.5 fps
2.2	154	0.2100	1.15		Shallow Concentrated Flow,
3.4	191	0.1400	0.94		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
J. 4	131	0.1400	0.34		Forest w/Heavy Litter Kv= 2.5 fps
2.4	146	0.1600	1.00		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.8	137	0.2500	1.25		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.6	204	0.2800	1.32		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.3	134	0.1500	0.97		Shallow Concentrated Flow,
4.0	000	0.0000	4.40		Forest w/Heavy Litter Kv= 2.5 fps
4.3	286	0.2000	1.12		Shallow Concentrated Flow,
3.3	261	0.2700	1.30		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
3.3	201	0.2700	1.50		Forest w/Heavy Litter Kv= 2.5 fps
5.2	341	0.1900	1.09		Shallow Concentrated Flow,
0.2	0	0000	1.00		Forest w/Heavy Litter Kv= 2.5 fps
6.3	423	0.2000	1.12		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.7	301	0.1800	1.06		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.9	196	0.2000	1.12		Shallow Concentrated Flow,
0.0	000	0.4500	40.07	400.70	Forest w/Heavy Litter Kv= 2.5 fps
0.3	223	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	333	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
0.4	333	0.1700	10.70	104.51	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.5	440	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.2	189	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
55.4	4,125	Total			

Summary for Subcatchment 111S: WS4A

Runoff = 22.62 cfs @ 12.71 hrs, Volume= 3.932 af, Depth= 1.23"

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	Area (ac) CN Description								
0.521 71 Existing meadow, non-grazed, HSG C									
	4.	362 7				azed, HSG D			
					s, Good, H				
				•	s, Good, H				
38.315 75 Weighted Average									
		315							
	Tc	Length	Slope	Velocity	Capacity	Description			
(r	min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	·			
	10.7	73	0.3500	0.11		Sheet Flow,			
						Woods: Dense underbrush n= 0.800 P2= 2.40"			
	6.0	529	0.3500	1.48		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	4.0	350	0.3400	1.46		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	7.0	505	0.2300	1.20		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	8.5	623	0.2400	1.22		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	3.9	355	0.3700	1.52		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	4.6	337	0.2400	1.22		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	7.5	437	0.1500	0.97		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	5.5	330	0.1600	1.00		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	6.1	345	0.1400	0.94		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	0.1	45	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,			
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'			
						n= 0.050 Mountain streams w/large boulders			
(63.9	3,929	Total						

Summary for Subcatchment 142S: WS1I

Runoff = 15.85 cfs @ 12.27 hrs, Volume= 1.628 af, Depth= 1.29"

 Area (ac)	CN	Description						
0.123	98	Existing impervious, HSG D						
2.494	70	Existing Woods, Good, HSG C						
 12.485	77	Existing Woods, Good, HSG D						
15.102	76	Weighted Average						
14.979		99.19% Pervious Area						
0.123		0.81% Impervious Area						

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- (mi	Tc in)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10).9	52	0.1700	0.08	,	Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
4	.7	293	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
5	5.3	337	0.1800	1.06		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
4	6	279	0.1600	1.00		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
2	2.8	199	0.2200	1.17		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
0).5	431	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050 Mountain streams w/large boulders
C).5	373	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050 Mountain streams w/large boulders
C).7	447	0.1200	11.33	113.34	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050 Mountain streams w/large boulders
1	.1	658	0.0900	9.82	98.16	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050 Mountain streams w/large boulders
31	.2	3,069	Total			

Summary for Subcatchment 143S: WS1J

Runoff = 26.84 cfs @ 12.20 hrs, Volume= 2.408 af, Depth= 1.29"

Area (ac) CN	Description					
0.23	98	Existing impervious, HSG D					
0.09	5 71	Existing meadow, non-grazed, HSG C					
0.159	9 78	Existing meadow, non-grazed, HSG D					
4.342	2 70	Existing Woods, Good, HSG C					
17.52	0 77	Existing Woods, Good, HSG D					
22.34	6 76	Weighted Average					
22.110	6	98.97% Pervious Area					
0.23	0	1.03% Impervious Area					

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
_	10.9	52	0.1700	0.08	(===)	Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	4.3	269	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	5.3	336	0.1800	1.06		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	2.5	167	0.2000	1.12		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.5	486	0.1300	15.28	641.91	Trap/Vee/Rect Channel Flow,
						Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
	0.5	5.40	0.4700	47.40	70400	n= 0.050
	0.5	546	0.1700	17.48	734.06	Trap/Vee/Rect Channel Flow,
						Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
	0.5	400	0.4200	14.60	616.72	n= 0.050
	0.5	403	0.1200	14.68	616.73	•
						Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
	0.5	126	0.1100	14.06	590.48	Trap/Vee/Rect Channel Flow,
	0.5	420	0.1100	14.00	390.40	Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
						n= 0.050
	0.4	336	0.0900	12.72	534.11	Trap/Vee/Rect Channel Flow,
	0.1	000	0.0000	12.72	001.11	Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
						n= 0.050
_	25.4	3,101	Total			

Summary for Reach 40R: stream

Inflow Area = 38.315 ac, 0.00% Impervious, Inflow Depth = 1.23" for 10-Year event

Inflow = 22.32 cfs @ 12.87 hrs, Volume= 3.932 af

Outflow = 22.25 cfs @ 12.93 hrs, Volume= 3.932 af, Atten= 0%, Lag= 3.8 min

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

Max. Velocity= 5.91 fps, Min. Travel Time= 2.2 min Avg. Velocity = 1.80 fps, Avg. Travel Time= 7.1 min

Peak Storage= 2,901 cf @ 12.90 hrs

Average Depth at Peak Storage= 0.57', Surface Width= 7.15' Bank-Full Depth= 2.00' Flow Area= 16.0 sf, Capacity= 186.92 cfs

6.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 10.00'

Length= 770.0' Slope= 0.1013 '/'

Inlet Invert= 1,563.00', Outlet Invert= 1,485.00'

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Summary for Reach 42R: stream

Inflow Area = 38.315 ac, 0.00% Impervious, Inflow Depth = 1.23" for 10-Year event

Inflow = 22.62 cfs @ 12.71 hrs, Volume= 3.932 af

Outflow = 22.32 cfs @ 12.87 hrs, Volume= 3.932 af, Atten= 1%, Lag= 9.6 min

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

Max. Velocity= 7.25 fps, Min. Travel Time= 5.6 min Avg. Velocity = 2.11 fps, Avg. Travel Time= 19.3 min

Peak Storage= 7,507 cf @ 12.77 hrs

Average Depth at Peak Storage= 0.55', Surface Width= 6.11' Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 60.47 cfs

5.00' x 1.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 2,440.0' Slope= 0.1639 '/'

Inlet Invert= 1,973.00', Outlet Invert= 1,573.00'

Summary for Reach 102R: stream

Inflow Area = 315.675 ac, 4.58% Impervious, Inflow Depth = 1.25" for 10-Year event

Inflow = 201.57 cfs @ 12.54 hrs, Volume= 32.801 af

Outflow = 200.86 cfs @ 12.59 hrs, Volume= 32.801 af, Atten= 0%, Lag= 2.9 min

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

Max. Velocity= 8.72 fps, Min. Travel Time= 1.7 min

Avg. Velocity = 2.52 fps, Avg. Travel Time= 5.9 min

Peak Storage= 20,553 cf @ 12.56 hrs

Average Depth at Peak Storage= 1.69', Surface Width= 15.37'

Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 883.89 cfs

12.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 20.00'

Length= 890.0' Slope= 0.0562 '/'

Inlet Invert= 1,480.00', Outlet Invert= 1,430.00'

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Summary for Reach 103R: stream

Inflow Area = 93.279 ac, 0.00% Impervious, Inflow Depth = 1.17" for 10-Year event

Inflow = 58.42 cfs @ 12.56 hrs, Volume= 9.106 af

Outflow = 58.28 cfs @ 12.58 hrs, Volume= 9.106 af, Atten= 0%, Lag= 1.1 min

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

Max. Velocity= 7.09 fps, Min. Travel Time= 0.6 min Avg. Velocity = 2.29 fps, Avg. Travel Time= 2.0 min

Peak Storage= 2,263 cf @ 12.57 hrs

Average Depth at Peak Storage= 0.92', Surface Width= 9.84' Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 440.61 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 275.0' Slope= 0.0800 '/'

Inlet Invert= 1,502.00', Outlet Invert= 1,480.00'



Summary for Reach 104R: stream

Inflow Area = 159.128 ac, 6.53% Impervious, Inflow Depth = 1.23" for 10-Year event

Inflow = 104.72 cfs @ 12.57 hrs, Volume= 16.302 af

Outflow = 104.41 cfs @ 12.59 hrs, Volume= 16.302 af, Atten= 0%, Lag= 1.6 min

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

Max. Velocity= 9.32 fps, Min. Travel Time= 0.9 min

Avg. Velocity = 2.83 fps, Avg. Travel Time= 2.9 min

Peak Storage= 5,555 cf @ 12.58 hrs

Average Depth at Peak Storage= 1.22', Surface Width= 10.43'

Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 495.10 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 495.0' Slope= 0.1010 '/'

Inlet Invert= 1,530.00', Outlet Invert= 1,480.00'

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Summary for Reach 108R: stream

Inflow Area = 93.279 ac, 0.00% Impervious, Inflow Depth = 1.17" for 10-Year event

Inflow = 58.98 cfs @ 12.45 hrs, Volume= 9.106 af

Outflow = 58.42 cfs @ 12.56 hrs, Volume= 9.106 af, Atten= 1%, Lag= 6.5 min

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

Max. Velocity = 8.62 fps, Min. Travel Time = 3.8 min Avg. Velocity = 2.72 fps, Avg. Travel Time = 12.1 min

Peak Storage= 13,369 cf @ 12.50 hrs

Average Depth at Peak Storage= 0.77', Surface Width= 9.55' Bank-Full Depth= 2.00' Flow Area= 20.0 sf, Capacity= 291.19 cfs

8.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 12.00'

Length= 1,968.0' Slope= 0.1443 '/'

Inlet Invert= 1,810.00', Outlet Invert= 1,526.00'

Summary for Reach 110R: stream

Inflow Area = 151.593 ac, 4.78% Impervious, Inflow Depth = 1.19" for 10-Year event

Inflow = 102.88 cfs @ 12.52 hrs, Volume= 15.040 af

Outflow = 102.47 cfs @ 12.57 hrs, Volume= 15.040 af, Atten= 0%, Lag= 3.0 min

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

Max. Velocity= 11.10 fps, Min. Travel Time= 1.8 min

Avg. Velocity = 3.80 fps, Avg. Travel Time= 5.2 min

Peak Storage= 10,874 cf @ 12.54 hrs

Average Depth at Peak Storage= 1.27', Surface Width= 8.54'

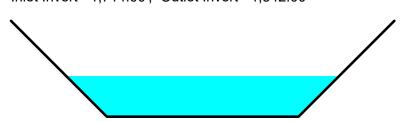
Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 465.00 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 12.00'

Length= 1,175.0' Slope= 0.1464 '/'

Inlet Invert= 1,714.00', Outlet Invert= 1,542.00'



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Summary for Reach 111R: upperstream

Inflow Area = 40.294 ac, 0.90% Impervious, Inflow Depth = 1.17" for 10-Year event

Inflow = 27.39 cfs @ 12.51 hrs, Volume= 3.933 af

Outflow = 27.29 cfs @ 12.55 hrs, Volume= 3.933 af, Atten= 0%, Lag= 2.4 min

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

Max. Velocity= 8.83 fps, Min. Travel Time= 1.3 min Avg. Velocity = 3.35 fps, Avg. Travel Time= 3.4 min

Peak Storage= 2,125 cf @ 12.52 hrs

Average Depth at Peak Storage= 0.81', Surface Width= 4.63' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 139.11 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value = 1.0 '/' Top Width = 7.00'

Length= 686.0' Slope= 0.1808 '/'

Inlet Invert= 2,074.00', Outlet Invert= 1,950.00'



Summary for Reach 112R: stream

Inflow Area = 72.195 ac, 1.07% Impervious, Inflow Depth = 1.15" for 10-Year event

Inflow = 45.59 cfs @ 12.57 hrs, Volume= 6.892 af

Outflow = 45.40 cfs @ 12.63 hrs, Volume= 6.892 af, Atten= 0%, Lag= 3.6 min

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

Max. Velocity= 9.45 fps, Min. Travel Time= 2.2 min

Avg. Velocity = 3.32 fps, Avg. Travel Time= 6.2 min

Peak Storage= 5,922 cf @ 12.59 hrs

Average Depth at Peak Storage= 0.83', Surface Width= 6.65' Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 210.11 cfs

5.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 9.00'

Length= 1,230.0' Slope= 0.1772 '/'

Inlet Invert= 1,950.00', Outlet Invert= 1,732.00'



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Summary for Link SP1:

Inflow Area = 322.567 ac, 4.49% Impervious, Inflow Depth = 1.25" for 10-Year event

Inflow = 203.85 cfs @ 12.58 hrs, Volume= 33.580 af

Primary = 203.85 cfs @ 12.58 hrs, Volume= 33.580 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP10:

Inflow Area = 0.758 ac, 3.56% Impervious, Inflow Depth = 1.42" for 10-Year event

Inflow = 1.38 cfs @ 12.07 hrs, Volume= 0.090 af

Primary = 1.38 cfs @ 12.07 hrs, Volume= 0.090 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP11:

Inflow Area = 16.815 ac, 1.46% Impervious, Inflow Depth = 1.23" for 10-Year event

Inflow = 8.37 cfs @ 12.94 hrs, Volume= 1.726 af

Primary = 8.37 cfs @ 12.94 hrs, Volume= 1.726 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP12:

Inflow Area = 9.755 ac, 2.26% Impervious, Inflow Depth = 1.23" for 10-Year event

Inflow = 8.97 cfs @ 12.32 hrs, Volume= 1.001 af

Primary = 8.97 cfs @ 12.32 hrs, Volume= 1.001 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP13:

Inflow Area = 22.285 ac, 1.05% Impervious, Inflow Depth = 1.11" for 10-Year event

Inflow = 8.27 cfs @ 13.26 hrs, Volume= 2.067 af

Primary = 8.27 cfs @ 13.26 hrs, Volume= 2.067 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP14:

Inflow Area = 3.587 ac, 5.07% Impervious, Inflow Depth = 1.23" for 10-Year event

Inflow = 3.45 cfs @ 12.29 hrs, Volume= 0.368 af

Primary = 3.45 cfs @ 12.29 hrs, Volume= 0.368 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP15:

Inflow Area = 37.339 ac, 0.18% Impervious, Inflow Depth = 1.11" for 10-Year event

Inflow = 14.75 cfs @ 13.14 hrs, Volume= 3.463 af

Primary = 14.75 cfs @ 13.14 hrs, Volume= 3.463 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP16:

Inflow Area = 0.416 ac, 18.75% Impervious, Inflow Depth = 1.63" for 10-Year event

Inflow = 0.96 cfs @ 12.04 hrs, Volume= 0.056 af

Primary = 0.96 cfs @ 12.04 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP17:

Inflow Area = 7.386 ac, 2.63% Impervious, Inflow Depth = 1.11" for 10-Year event

Inflow = 5.72 cfs @ 12.36 hrs, Volume= 0.685 af

Primary = 5.72 cfs @ 12.36 hrs, Volume= 0.685 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP18:

Inflow Area = 1.599 ac, 1.31% Impervious, Inflow Depth = 1.06" for 10-Year event

Inflow = 1.48 cfs @ 12.22 hrs, Volume= 0.141 af

Primary = 1.48 cfs @ 12.22 hrs, Volume= 0.141 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP19:

Inflow Area = 7.975 ac, 0.10% Impervious, Inflow Depth = 1.06" for 10-Year event

Inflow = 4.87 cfs @ 12.50 hrs, Volume= 0.702 af

Primary = 4.87 cfs @ 12.50 hrs, Volume= 0.702 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP2:

Inflow Area = 4.825 ac, 1.45% Impervious, Inflow Depth = 1.36" for 10-Year event

Inflow = 4.20 cfs @ 12.44 hrs, Volume= 0.545 af

Primary = 4.20 cfs @ 12.44 hrs, Volume= 0.545 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP20:

Inflow Area = 40.004 ac, 3.65% Impervious, Inflow Depth = 1.17" for 10-Year event

Inflow = 24.64 cfs @ 12.61 hrs, Volume= 3.905 af

Primary = 24.64 cfs @ 12.61 hrs, Volume= 3.905 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP21:

Inflow Area = 6.228 ac, 0.32% Impervious, Inflow Depth = 1.11" for 10-Year event

Inflow = 4.58 cfs @ 12.40 hrs, Volume= 0.578 af

Primary = 4.58 cfs @ 12.40 hrs, Volume= 0.578 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP22:

Inflow Area = 7.516 ac, 0.98% Impervious, Inflow Depth = 1.36" for 10-Year event

Inflow = 6.22 cfs @ 12.47 hrs, Volume= 0.850 af

Primary = 6.22 cfs @ 12.47 hrs, Volume= 0.850 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP23:

Inflow Area = 2.642 ac, 1.48% Impervious, Inflow Depth = 1.29" for 10-Year event

Inflow = 2.95 cfs @ 12.24 hrs, Volume= 0.285 af

Primary = 2.95 cfs @ 12.24 hrs, Volume= 0.285 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP24:

Inflow Area = 10.169 ac, 4.49% Impervious, Inflow Depth = 1.42" for 10-Year event

Inflow = 8.39 cfs @ 12.53 hrs, Volume= 1.205 af

Primary = 8.39 cfs @ 12.53 hrs, Volume= 1.205 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP3:

Inflow Area = 1.513 ac, 4.49% Impervious, Inflow Depth = 1.42" for 10-Year event

Inflow = 2.48 cfs @ 12.11 hrs, Volume= 0.179 af

Primary = 2.48 cfs @ 12.11 hrs, Volume= 0.179 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP4:

Inflow Area = 58.640 ac, 0.49% Impervious, Inflow Depth = 1.25" for 10-Year event

Inflow = 30.76 cfs @ 12.12 hrs, Volume= 6.123 af

Primary = 30.76 cfs @ 12.12 hrs, Volume= 6.123 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP5:

Inflow Area = 3.053 ac, 0.39% Impervious, Inflow Depth = 1.36" for 10-Year event

Inflow = 3.20 cfs @ 12.31 hrs, Volume= 0.345 af

Primary = 3.20 cfs @ 12.31 hrs, Volume= 0.345 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP6:

Inflow Area = 29.113 ac, 0.99% Impervious, Inflow Depth = 1.29" for 10-Year event

Inflow = 26.28 cfs @ 12.37 hrs, Volume= 3.138 af

Primary = 26.28 cfs @ 12.37 hrs, Volume= 3.138 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP7:

Inflow Area = 26.547 ac, 0.94% Impervious, Inflow Depth = 1.29" for 10-Year event

Inflow = 19.98 cfs @ 12.52 hrs, Volume= 2.861 af

Primary = 19.98 cfs @ 12.52 hrs, Volume= 2.861 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP8:

Inflow Area = 0.343 ac, 19.24% Impervious, Inflow Depth = 1.63" for 10-Year event

Inflow = 1.09 cfs @ 11.91 hrs, Volume= 0.047 af

Primary = 1.09 cfs @ 11.91 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP9:

Inflow Area = 8.117 ac, 2.27% Impervious, Inflow Depth = 1.23" for 10-Year event

Inflow = 5.70 cfs @ 12.53 hrs, Volume= 0.833 af

Primary = 5.70 cfs @ 12.53 hrs, Volume= 0.833 af, Atten= 0%, Lag= 0.0 min

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment70S: WS1	Runoff Area=3.816 ac 0.50% Impervious Runoff Depth=1.97" Flow Length=1,200' Tc=20.2 min CN=77 Runoff=8.22 cfs 0.626 af
Subcatchment72S: WS2	Runoff Area=4.825 ac 1.45% Impervious Runoff Depth=1.97" Flow Length=1,847' Tc=44.0 min CN=77 Runoff=6.24 cfs 0.792 af
Subcatchment73S: WS3	Runoff Area=1.513 ac 4.49% Impervious Runoff Depth=2.05" Flow Length=681' Tc=18.2 min CN=78 Runoff=3.60 cfs 0.258 af
Subcatchment74S: WS4	Runoff Area=20.325 ac 1.41% Impervious Runoff Depth=1.89" Flow Length=3,739' Tc=18.0 min CN=76 Runoff=44.85 cfs 3.206 af
Subcatchment75S: WS5	Runoff Area=3.053 ac 0.39% Impervious Runoff Depth=1.97" Flow Length=1,271' Tc=33.9 min CN=77 Runoff=4.74 cfs 0.501 af
Subcatchment76S: WS6	Runoff Area=29.113 ac 0.99% Impervious Runoff Depth=1.89" Flow Length=4,403' Tc=38.7 min CN=76 Runoff=39.48 cfs 4.593 af
Subcatchment77S: WS7	Runoff Area=26.547 ac 0.94% Impervious Runoff Depth=1.89" Flow Length=4,636' Tc=49.7 min CN=76 Runoff=30.05 cfs 4.188 af
Subcatchment78S: WS8	Runoff Area=0.343 ac 19.24% Impervious Runoff Depth=2.29" Flow Length=327' Tc=1.4 min CN=81 Runoff=1.52 cfs 0.065 af
Subcatchment79S: WS9	Runoff Area=8.117 ac 2.27% Impervious Runoff Depth=1.82" Flow Length=2,783' Tc=50.5 min CN=75 Runoff=8.69 cfs 1.230 af
Subcatchment80S: WS10	Runoff Area=0.758 ac 3.56% Impervious Runoff Depth=2.05" Flow Length=424' Tc=14.8 min CN=78 Runoff=2.00 cfs 0.129 af
Subcatchment81S: WS11	Runoff Area=16.815 ac 1.46% Impervious Runoff Depth=1.82" Flow Length=4,402' Tc=80.4 min CN=75 Runoff=12.76 cfs 2.548 af
Subcatchment82S: WS12	Runoff Area=9.755 ac 2.26% Impervious Runoff Depth=1.82" Flow Length=2,300' Tc=34.7 min CN=75 Runoff=13.63 cfs 1.478 af
Subcatchment83S: WS13	Runoff Area=22.285 ac 1.05% Impervious Runoff Depth=1.67" Flow Length=6,015' Tc=100.4 min CN=73 Runoff=12.94 cfs 3.106 af
Subcatchment84S: WS14	Runoff Area=3.587 ac 5.07% Impervious Runoff Depth=1.82" Flow Length=1,401' Tc=32.5 min CN=75 Runoff=5.24 cfs 0.543 af
Subcatchment85S: WS15	Runoff Area=37.339 ac 0.18% Impervious Runoff Depth=1.67" Flow Length=6,278' Tc=92.0 min CN=73 Runoff=23.10 cfs 5.204 af
Subcatchment86S: WS16	Runoff Area=0.416 ac 18.75% Impervious Runoff Depth=2.29" Flow Length=267' Tc=11.9 min CN=81 Runoff=1.36 cfs 0.079 af

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Subcatchment87S: WS17	Runoff Area=7.386 ac 2.63% Impervious Runoff Depth=1.67" Flow Length=2,290' Tc=37.1 min CN=73 Runoff=8.94 cfs 1.029 af
Subcatchment88S: WS18	Runoff Area=1.599 ac 1.31% Impervious Runoff Depth=1.60" Flow Length=978' Tc=26.1 min CN=72 Runoff=2.34 cfs 0.213 af
Subcatchment89S: WS20	Runoff Area=40.004 ac 3.65% Impervious Runoff Depth=1.74" Flow Length=4,364' Tc=55.5 min CN=74 Runoff=38.07 cfs 5.816 af
Subcatchment90S: WS21	Runoff Area=6.228 ac 0.32% Impervious Runoff Depth=1.67" Flow Length=1,797' Tc=39.9 min CN=73 Runoff=7.16 cfs 0.868 af
Subcatchment91S: WS22	Runoff Area=7.516 ac 0.98% Impervious Runoff Depth=1.97" Flow Length=2,111' Tc=47.3 min CN=77 Runoff=9.25 cfs 1.234 af
Subcatchment92S: WS23	Runoff Area=2.642 ac 1.48% Impervious Runoff Depth=1.89" Flow Length=1,122' Tc=28.3 min CN=76 Runoff=4.42 cfs 0.417 af
Subcatchment93S: WS1A	Runoff Area=3.076 ac 0.00% Impervious Runoff Depth=1.97" Flow Length=821' Tc=28.5 min CN=77 Runoff=5.36 cfs 0.505 af
Subcatchment94S: WS1B	Runoff Area=8.471 ac 5.02% Impervious Runoff Depth=2.05" Flow Length=2,480' Tc=14.1 min CN=78 Runoff=22.94 cfs 1.445 af
Subcatchment95S: WS1C	Runoff Area=17.349 ac 18.91% Impervious Runoff Depth=2.29" Flow Length=3,667' Tc=47.4 min CN=81 Runoff=25.08 cfs 3.312 af
Subcatchment96S: WS1D	Runoff Area=79.398 ac 8.16% Impervious Runoff Depth=1.82" Flow Length=6,450' Tc=43.6 min CN=75 Runoff=94.45 cfs 12.030 af
Subcatchment97S: WS24	Runoff Area=10.169 ac 4.49% Impervious Runoff Depth=2.05" Flow Length=2,477' Tc=51.1 min CN=78 Runoff=12.32 cfs 1.735 af
Subcatchment98S: WS19	Runoff Area=7.975 ac 0.10% Impervious Runoff Depth=1.60" Flow Length=2,264' Tc=47.0 min CN=72 Runoff=7.75 cfs 1.065 af
Subcatchment103S: WS 1CA	Runoff Area=7.535 ac 41.66% Impervious Runoff Depth=2.73" Flow Length=949' Tc=10.1 min CN=86 Runoff=30.52 cfs 1.713 af
Subcatchment106S: WS 1G	Runoff Area=33.788 ac 0.01% Impervious Runoff Depth=1.74" Flow Length=4,645' Tc=34.6 min CN=74 Runoff=45.13 cfs 4.912 af
Subcatchment107S: WS 1H	Runoff Area=59.491 ac 0.00% Impervious Runoff Depth=1.74" Flow Length=4,804' Tc=55.9 min CN=74 Runoff=56.38 cfs 8.649 af
Subcatchment108S: WS1F	Runoff Area=40.294 ac 0.90% Impervious Runoff Depth=1.74" Flow Length=4,191' Tc=48.6 min CN=74 Runoff=42.31 cfs 5.858 af
Subcatchment110S: WS1E	Runoff Area=31.901 ac 1.29% Impervious Runoff Depth=1.67" Flow Length=4,125' Tc=55.4 min CN=73 Runoff=28.96 cfs 4.446 af

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Subcatchment111S: WS4A Runoff Area=38.315 ac 0.00% Impervious Runoff Depth=1.82"

Flow Length=3,929' Tc=63.9 min CN=75 Runoff=34.51 cfs 5.805 af

Subcatchment142S: WS1I Runoff Area=15.102 ac 0.81% Impervious Runoff Depth=1.89"

Flow Length=3,069' Tc=31.2 min CN=76 Runoff=23.77 cfs 2.382 af

Subcatchment143S: WS1J Runoff Area=22.346 ac 1.03% Impervious Runoff Depth=1.89"

Flow Length=3,101' Tc=25.4 min CN=76 Runoff=40.14 cfs 3.525 af

Reach 40R: stream Avg. Flow Depth=0.74' Max Vel=6.84 fps Inflow=34.11 cfs 5.805 af

n=0.050 L=770.0' S=0.1013 '/' Capacity=186.92 cfs Outflow=34.02 cfs 5.805 af

Reach 42R: stream Avg. Flow Depth=0.71' Max Vel=8.38 fps Inflow=34.51 cfs 5.805 af

n=0.050 L=2,440.0' S=0.1639 '/' Capacity=60.47 cfs Outflow=34.11 cfs 5.805 af

Reach 102R: streamAvg. Flow Depth=2.18' Max Vel=10.03 fps Inflow=310.06 cfs 48.273 af n=0.050 L=890.0' S=0.0562 '/' Capacity=883.89 cfs Outflow=309.01 cfs 48.273 af

Reach 103R: stream Avg. Flow Depth=1.20' Max Vel=8.23 fps Inflow=90.74 cfs 13.561 af

n=0.050 L=275.0' S=0.0800'/' Capacity=440.61 cfs Outflow=90.60 cfs 13.561 af

Reach 104R: stream Avg. Flow Depth=1.57' Max Vel=10.72 fps Inflow=161.35 cfs 24.047 af

n=0.050 L=495.0' S=0.1010'/' Capacity=495.10 cfs Outflow=161.00 cfs 24.047 af

Reach 108R: stream Avg. Flow Depth=1.01' Max Vel=10.01 fps Inflow=91.35 cfs 13.561 af

n=0.050 L=1,968.0' S=0.1443 '/' Capacity=291.19 cfs Outflow=90.74 cfs 13.561 af

Reach 110R: stream Avg. Flow Depth=1.64' Max Vel=12.67 fps Inflow=158.87 cfs 22.334 af

 $n = 0.050 \quad L = 1,175.0' \quad S = 0.1464 \; \text{'/'} \quad Capacity = 465.00 \; \text{cfs} \quad Outflow = 158.28 \; \text{cfs} \quad 22.334 \; \text{af} \quad (1.5) \quad ($

Reach 111R: upperstream Avg. Flow Depth=1.04' Max Vel=10.04 fps Inflow=42.31 cfs 5.858 af

n=0.050 L=686.0' S=0.1808 '/' Capacity=139.11 cfs Outflow=42.16 cfs 5.858 af

Reach 112R: stream Avg. Flow Depth=1.07' Max Vel=10.87 fps Inflow=70.83 cfs 10.304 af

n=0.050 L=1,230.0' S=0.1772'/' Capacity=210.11 cfs Outflow=70.58 cfs 10.304 af

Link SP1: Inflow=313.66 cfs 49.404 af

Primary=313.66 cfs 49.404 af

Link SP10: Inflow=2.00 cfs 0.129 af

Primary=2.00 cfs 0.129 af

Link SP11: Inflow=12.76 cfs 2.548 af

Primary=12.76 cfs 2.548 af

Link SP12: Inflow=13.63 cfs 1.478 af

Primary=13.63 cfs 1.478 af

Link SP13: Inflow=12.94 cfs 3.106 af

Primary=12.94 cfs 3.106 af

55310.01-West Mountain-EX Type II 24-hr 25-Year Rainfall=4.20" Prepared by VHB Printed 9/24/2021 HydroCAD® 10.10-5a s/n 01038 © 2020 HydroCAD Software Solutions LLC Page 154 Inflow=5.24 cfs 0.543 af Link SP14: Primary=5.24 cfs 0.543 af Link SP15: Inflow=23.10 cfs 5.204 af Primary=23.10 cfs 5.204 af Inflow=1.36 cfs 0.079 af Link SP16: Primary=1.36 cfs 0.079 af Link SP17: Inflow=8.94 cfs 1.029 af Primary=8.94 cfs 1.029 af Inflow=2.34 cfs 0.213 af Link SP18: Primary=2.34 cfs 0.213 af Link SP19: Inflow=7.75 cfs 1.065 af Primary=7.75 cfs 1.065 af Link SP2: Inflow=6.24 cfs 0.792 af Primary=6.24 cfs 0.792 af Link SP20: Inflow=38.07 cfs 5.816 af Primary=38.07 cfs 5.816 af Inflow=7.16 cfs 0.868 af Link SP21: Primary=7.16 cfs 0.868 af Inflow=9.25 cfs 1.234 af Link SP22: Primary=9.25 cfs 1.234 af Link SP23: Inflow=4.42 cfs 0.417 af Primary=4.42 cfs 0.417 af Link SP24: Inflow=12.32 cfs 1.735 af Primary=12.32 cfs 1.735 af Link SP3: Inflow=3.60 cfs 0.258 af Primary=3.60 cfs 0.258 af Link SP4: Inflow=47.39 cfs 9.012 af Primary=47.39 cfs 9.012 af Link SP5: Inflow=4.74 cfs 0.501 af Primary=4.74 cfs 0.501 af

Inflow=39.48 cfs 4.593 af Primary=39.48 cfs 4.593 af

Inflow=30.05 cfs 4.188 af Primary=30.05 cfs 4.188 af

Link SP6:

Link SP7:

Type II 24-hr 25-Year Rainfall=4.20"

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Inflow=1.52 cfs 0.065 af Link SP8:

Primary=1.52 cfs 0.065 af

Link SP9: Inflow=8.69 cfs 1.230 af Primary=8.69 cfs 1.230 af

Total Runoff Area = 629.192 ac Runoff Volume = 95.508 af Average Runoff Depth = 1.82" 96.98% Pervious = 610.171 ac 3.02% Impervious = 19.021 ac

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Summary for Subcatchment 70S: WS1

Runoff = 8.22 cfs @ 12.13 hrs, Volume= 0.626 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 25-Year Rainfall=4.20"

Area	(ac) C	N Des	cription				
0.	0.019 98 Existing impervious, HSG D						
0.032 78 Existing meadow, non-grazed, HSG D							
3.	.765	77 Exis	ting Wood	s, Good, H	SG D		
_			ghted Aver				
	.797		0% Pervio				
0.	.019	0.50	% Impervi	ous Area			
-		01		0 :			
Tc	Length	Slope	Velocity	Capacity	Description		
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)			
10.9	38	0.0900	0.06		Sheet Flow,		
					Woods: Dense underbrush n= 0.800 P2= 2.40"		
8.0	358	0.0900	0.75		Shallow Concentrated Flow,		
					Forest w/Heavy Litter Kv= 2.5 fps		
0.5	299	0.0600	9.68	232.28	Trap/Vee/Rect Channel Flow,		
					Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00'		
					n= 0.050 Mountain streams w/large boulders		
8.0	505	0.0600	10.15	345.05	Trap/Vee/Rect Channel Flow,		
					Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'		
					n= 0.050 Mountain streams w/large boulders		
20.2	1,200	Total					

Summary for Subcatchment 72S: WS2

Runoff = 6.24 cfs @ 12.43 hrs, Volume= 0.792 af, Depth= 1.97"

 Area (ac)	CN	Description					
0.070	98	Existing impervious, HSG D					
0.750	78	Existing meadow, non-grazed, HSG D					
 4.005	77	Existing Woods, Good, HSG D					
4.825	77	Weighted Average					
4.755		98.55% Pervious Area					
0.070		1.45% Impervious Area					

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	10.6	49	0.1600	0.08		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	5.8	349	0.1600	1.00		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	2.5	156	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	5.6	279	0.1100	0.83		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.4	154	0.0900	0.75		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	7.5	339	0.0900	0.75		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	8.3	374	0.0900	0.75		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.3	147	0.0300	8.52	25.56	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_						n= 0.022 Earth, clean & straight
	44.0	1,847	Total			

Summary for Subcatchment 73S: WS3

Runoff = 3.60 cfs @ 12.11 hrs, Volume= 0.258 af, Depth= 2.05"

Area	(ac) C	N Des	cription					
0.	0.068 98 Existing impervious, HSG D							
0.	0.254 78 Existing meadow, non-grazed, HSG D							
1.	1.191 77 Existing Woods, Good, HSG D							
1.	513 7	•	ghted Aver	•				
	445		1% Pervio					
0.	.068	4.49	% Impervi	ous Area				
_		0.1						
Tc	Length	Slope	Velocity	Capacity	Description			
(min)_	(feet)	(ft/ft)	(ft/sec)	(cfs)				
11.0	36	0.0800	0.05		Sheet Flow,			
					Woods: Dense underbrush n= 0.800 P2= 2.40"			
1.4	60	0.0800	0.71		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
1.6	97	0.1600	1.00		Shallow Concentrated Flow,			
	400		0.75		Forest w/Heavy Litter Kv= 2.5 fps			
3.8	169	0.0900	0.75		Shallow Concentrated Flow,			
0.4	0.40	0.0700	40.04	00.04	Forest w/Heavy Litter Kv= 2.5 fps			
0.4	319	0.0700	13.01	39.04	Trap/Vee/Rect Channel Flow,			
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
					n= 0.022 Earth, clean & straight			
18.2	681	Total						

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Summary for Subcatchment 74S: WS4

Runoff = 44.85 cfs @ 12.11 hrs, Volume= 3.206 af, Depth= 1.89"

Area	(ac) C	N Des	cription						
0.	0.287 98 Existing impervious, HSG D								
0.	739 7	'1 Exis	ting mead	ow, non-gra	azed, HSG C				
1.	1.095 78 Existing meadow, non-grazed, HSG D								
2.883 70 Existing Woods, Good, HSG C									
15.	321 7			s, Good, H	SG D				
			ghted Avei						
	038		9% Pervio						
0.	287	1.41	% Impervi	ous Area					
_		0.1							
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
10.8	56	0.2000	0.09		Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
2.4	164	0.2000	1.12		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
0.5	417	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.7	544	0.1800	13.88	138.82	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
1.0	711	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.5	404	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/ Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.4	338	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/ Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.6	432	0.1200	11.33	113.34	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.8	424	0.0800	9.25	92.55	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.3	249	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,				
0.0	0	300	(10	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
18.0	3,739	Total			0.000 mountain on our no margo bouldoro				
10.0	0,700	iotai							

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Summary for Subcatchment 75S: WS5

Runoff = 4.74 cfs @ 12.30 hrs, Volume= 0.501 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 25-Year Rainfall=4.20"

_	Area	(ac) C	N Desc	cription						
0.012 98			8 Exis	Existing impervious, HSG D						
	0.	032 7	8 Exis	Existing meadow, non-grazed, HSG D						
	3.	009 7	7 Exis	Existing Woods, Good, HSG D						
	3.	053 7		ghted Aver						
	_	041		1% Pervio						
	0.	012	0.39	% Impervi	ous Area					
	_		-			—				
	Tc	Length	Slope		Capacity	Description				
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	11.0	36	0.0800	0.05		Sheet Flow,				
						Woods: Dense underbrush n= 0.800 P2= 2.40"				
	8.0	35	0.0800	0.71		Shallow Concentrated Flow,				
		400		4.40		Forest w/Heavy Litter Kv= 2.5 fps				
	2.5	169	0.2000	1.12		Shallow Concentrated Flow,				
		074	0.4000	0.70		Forest w/Heavy Litter Kv= 2.5 fps				
	5.7	271	0.1000	0.79		Shallow Concentrated Flow,				
	4.3	240	0.4400	0.04		Forest w/Heavy Litter Kv= 2.5 fps				
	4.3	240	0.1400	0.94		Shallow Concentrated Flow,				
	8.1	345	0.0800	0.71		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,				
	0.1	343	0.0000	0.7 1		Forest w/Heavy Litter Kv= 2.5 fps				
	1.4	87	0.1700	1.03		Shallow Concentrated Flow,				
	1.4	01	0.1700	1.00		Forest w/Heavy Litter Kv= 2.5 fps				
	0.1	88	0.1400	18.40	55.21	Trap/Vee/Rect Channel Flow,				
	0.1	00	0.1100	10.10	00.21	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
						n= 0.022 Earth, clean & straight				
	33.9	1,271	Total							
	55.5	.,	· Otal							

Summary for Subcatchment 76S: WS6

Runoff = 39.48 cfs @ 12.36 hrs, Volume= 4.593 af, Depth= 1.89"

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Area	(ac) C	N Desc	cription								
0.	0.537 71 Existing meadow, non-grazed, HSG C										
3.	3.855 70 Existing Woods, Good, HSG C										
0.	0.287 98 Existing impervious, HSG D										
3.	3.372 78 Existing meadow, non-grazed, HSG D										
21.	21.062 77 Existing Woods, Good, HSG D										
			ghted Aver								
	.826		1% Pervio								
0.	287	0.99	% Impervi	ous Area							
_		01									
Tc	Length	Slope	Velocity	Capacity	Description						
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)							
10.8	50	0.1600	0.08		Sheet Flow,						
0.0	40	0.4000	4.00		Woods: Dense underbrush n= 0.800 P2= 2.40"						
0.2	10	0.1600	1.00		Shallow Concentrated Flow,						
0.0	445	0.0000	4.00		Forest w/Heavy Litter Kv= 2.5 fps						
2.0	145	0.2300	1.20		Shallow Concentrated Flow,						
6.7	222	0.4400	0.00		Forest w/Heavy Litter Kv= 2.5 fps						
6.7	333	0.1100	0.83		Shallow Concentrated Flow,						
9.8	441	0.0900	0.75		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,						
9.0	44 1	0.0900	0.75		Forest w/Heavy Litter Kv= 2.5 fps						
4.8	290	0.1600	1.00		Shallow Concentrated Flow,						
4.0	230	0.1000	1.00		Forest w/Heavy Litter Kv= 2.5 fps						
0.3	290	0.2200	15.35	153.47							
0.5	230	0.2200	10.00	100.47	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'						
					n= 0.050 Mountain streams w/large boulders						
0.8	681	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,						
0.0	001	0.1000	11.20	112.02	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'						
					n= 0.050 Mountain streams w/large boulders						
0.5	418	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,						
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'						
					n= 0.050 Mountain streams w/large boulders						
1.0	729	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,						
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'						
					n= 0.050 Mountain streams w/large boulders						
0.7	465	0.1300	11.80	117.97	Trap/Vee/Rect Channel Flow,						
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'						
					n= 0.050 Mountain streams w/large boulders						
1.0	466	0.0600	8.01	80.15	Trap/Vee/Rect Channel Flow,						
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'						
					n= 0.050 Mountain streams w/large boulders						
0.1	85	0.0500	11.00	32.99	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.022 Earth, clean & straight						
38.7	4,403	Total									

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Summary for Subcatchment 77S: WS7

Runoff = 30.05 cfs @ 12.51 hrs, Volume= 4.188 af, Depth= 1.89"

/	Area (ac)	CN	Description			
	0.688	71	Existing meadow, non-grazed, HSG C			
	5.100	70	Existing Woods, Good, HSG C			
	0.250	98	Existing impervious, HSG D			
	3.025	78	Existing meadow, non-grazed, HSG D			
	17.484	77	Existing Woods, Good, HSG D			
	26.547	76	Weighted Average			
	26.297		99.06% Pervious Area			
	0.250		0.94% Impervious Area			

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	64	0.2700	0.10	, ,	Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
4.0	312	0.2700	1.30		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.8	360	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
12.6	565	0.0900	0.75		Shallow Concentrated Flow,
44.0	400		0.04		Forest w/Heavy Litter Kv= 2.5 fps
11.0	406	0.0600	0.61		Shallow Concentrated Flow,
4.0	405	0.4400	4.00		Forest w/Heavy Litter Kv= 2.5 fps
1.9	185	0.4100	1.60		Shallow Concentrated Flow,
0.0	204	0.0000	47.00	470.04	Forest w/Heavy Litter Kv= 2.5 fps
0.3	324	0.3000	17.92	179.21	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.3	270	0.1900	14.26	142.62	n= 0.050 Mountain streams w/large boulders
0.3	219	0.1900	14.20	142.02	Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.4	330	0.1500	12.67	126.72	
0.4	330	0.1300	12.07	120.72	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.3	224	0.1100	10.85	108.52	
0.0	227	0.1100	10.00	100.02	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.2	139	0.1200	11.33	113.34	
V		000			Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.4	287	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.5	361	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.6	417	0.1100	10.85	108.52	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.6	253	0.0500	7.32	73.16	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.4	400	0.0000	04.00	040.00	n= 0.050 Mountain streams w/large boulders
0.1	130	0.0800	21.03	210.33	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	4.000	T.4.1			n= 0.022 Earth, clean & straight
49.7	4,636	Total			

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Summary for Subcatchment 78S: WS8

Runoff = 1.52 cfs @ 11.91 hrs, Volume= 0.065 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 25-Year Rainfall=4.20"

	rea ((ac) C	N Des	cription			
0.066 98 Existing impervious, HSG D							
0.047 78 Existing meadow, non-grazed, HSG D							
0.230 77 Existing Woods, Good, HSG D							
0.343 81 Weighted Average							
	0.2	277	80.7	6% Pervio	us Area		
	0.0	066	19.2	4% Imper\	/ious Area		
	_						
,	Tc	Length	Slope	Velocity	Capacity	Description	
<u>(n</u>	nin)	(feet)	(ft/ft)	(ft/sec)	(cfs)		
	8.0	40	0.1000	0.79		Shallow Concentrated Flow,	
						Forest w/Heavy Litter Kv= 2.5 fps	
	0.2	11	0.1000	0.79		Shallow Concentrated Flow,	
						Forest w/Heavy Litter Kv= 2.5 fps	
	0.4	276	0.0600	12.05	36.14	•	
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'	
						n= 0.022 Earth, clean & straight	
	1.4	327	Total				

Summary for Subcatchment 79S: WS9

Runoff = 8.69 cfs @ 12.52 hrs, Volume= 1.230 af, Depth= 1.82"

Area	(ac)	CN	Description			
C	0.078	71	Existing meadow, non-grazed, HSG C			
2	2.614	70	Existing Woods, Good, HSG C			
C).184	98	Existing impervious, HSG D			
C).343	78	Existing meadow, non-grazed, HSG D			
4	.898	77	Existing Woods, Good, HSG D			
8	3.117	75	Weighted Average			
7	7.933		97.73% Pervious Area			
C).184		2.27% Impervious Area			

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	10.5	27	0.0500	0.04		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	8.4	283	0.0500	0.56		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	7.3	583	0.2800	1.32		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	6.0	403	0.2000	1.12		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	9.2	554	0.1600	1.00		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	2.2	172	0.2700	1.30		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	6.5	350	0.1300	0.90		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.4	411	0.1000	15.55	46.66	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_						n= 0.022 Earth, clean & straight
	50.5	2,783	Total			

Summary for Subcatchment 80S: WS10

Runoff = 2.00 cfs @ 12.07 hrs, Volume= 0.129 af, Depth= 2.05"

Area	(ac) C	N Des	cription					
0	.027	98 Exis	Existing impervious, HSG D					
0	.044 7	78 Exis	ting mead	ow, non-gra	azed, HSG D			
0	.687 7	77 Exis	Existing Woods, Good, HSG D					
0	.758 7	78 Wei	ghted Aver	age				
0	.731	96.4	4% Pervio	us Area				
0.	.027	3.56	% Impervi	ous Area				
_								
Tc	Length	Slope	Velocity	Capacity	Description			
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)				
10.8	70	0.3100	0.11		Sheet Flow,			
					Woods: Dense underbrush n= 0.800 P2= 2.40"			
8.0	65	0.3100	1.39		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
3.1	187	0.1600	1.00		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
0.1	102	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow,			
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
					n= 0.022 Earth, clean & straight			
14.8	424	Total						

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Summary for Subcatchment 81S: WS11

Runoff = 12.76 cfs @ 12.93 hrs, Volume= 2.548 af, Depth= 1.82"

_	Area	(ac) C	N Des	cription							
0.245 98 Existing impervious, HSG D 1.349 71 Existing meadow, non-grazed, HSG C											
						azed, HSG D					
					s, Good, H						
_				Existing Woods, Good, HSG D							
		570		4% Pervio							
	0.	245	1.46	% Impervi	ous Area						
	т.	1	Ol	\	0	Description					
	Tc	Length	Slope	Velocity	Capacity	Description					
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
	10.8	65	0.2700	0.10		Sheet Flow,					
	4 -	000	0.0700	4.00		Woods: Dense underbrush n= 0.800 P2= 2.40"					
	4.7	366	0.2700	1.30		Shallow Concentrated Flow,					
	0.4	507	0.4500	0.07		Forest w/Heavy Litter Kv= 2.5 fps					
	9.1	527	0.1500	0.97		Shallow Concentrated Flow,					
	5.5	398	0.2300	1.20		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,					
	5.5	390	0.2300	1.20		Forest w/Heavy Litter Kv= 2.5 fps					
	17.0	763	0.0900	0.75		Shallow Concentrated Flow,					
	17.0	700	0.0000	0.70		Forest w/Heavy Litter Kv= 2.5 fps					
	3.6	211	0.1500	0.97		Shallow Concentrated Flow,					
	0.0			0.0.		Forest w/Heavy Litter Kv= 2.5 fps					
	5.2	377	0.2300	1.20		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
	8.2	506	0.1700	1.03		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
	5.2	368	0.2200	1.17		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
	4.9	220	0.0900	0.75		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
	6.1	401	0.1900	1.09		Shallow Concentrated Flow,					
	0.4	000	0.0000	00.04	000.00	Forest w/Heavy Litter Kv= 2.5 fps					
	0.1	200	0.0900	22.31	223.09	Trap/Vee/Rect Channel Flow,					
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'					
_		4 400				n= 0.022 Earth, clean & straight					
	80.4	4,402	Total								

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Summary for Subcatchment 82S: WS12

Runoff = 13.63 cfs @ 12.31 hrs, Volume= 1.478 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 25-Year Rainfall=4.20"

Area	(ac) C	N Des	cription						
	0.280 71 Existing meadow, non-grazed, HSG C								
3.976 70 Existing Woods, Good, HSG C									
0.220 98 Existing impervious, HSG D									
1.035 78 Existing meadow, non-grazed, HSG D									
					SG D				
_			ghted Aver						
	.535	_	4% Pervio						
U.	.220	2.26	% Impervi	ous Area					
Тс	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Description				
10.7	41	0.1100	0.06	(013)	Sheet Flow,				
10.7	41	0.1100	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"				
6.4	320	0.1100	0.83		Shallow Concentrated Flow,				
0.4	020	0.1100	0.00		Forest w/Heavy Litter Kv= 2.5 fps				
8.0	562	0.2200	1.17		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
4.7	290	0.1700	1.03		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
3.8	281	0.2400	1.22		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
0.3	261	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
0.4	284	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
0.4	004	0.0500	44.00	20.00	n= 0.050 Mountain streams w/large boulders				
0.4	261	0.0500	11.00	32.99	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
	0.000	Takal			n= 0.022 Earth, clean & straight				
34.7	2,300	Total							

Summary for Subcatchment 83S: WS13

Runoff = 12.94 cfs @ 13.24 hrs, Volume= 3.106 af, Depth= 1.67"

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Area	(ac) C	N Des	cription		
4.	203 7	'1 Exis	ting meado	ow, non-gra	azed, HSG C
		0 Exis	ting Wood	s, Good, H	SG C
0.	235 9	8 Exis	ting imper	∕ious, HSG	D
					azed, HSG D
				s, Good, H	SG D
			ghted Aver		
	050		5% Pervio		
0.	235	1.05	% Impervi	ous Area	
т.	1	Cl	\/-1:4	0	Description
Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	01 (5)
10.8	76	0.3700	0.12		Sheet Flow,
5 0	507	0.0700	4.50		Woods: Dense underbrush n= 0.800 P2= 2.40"
5.9	537	0.3700	1.52		Shallow Concentrated Flow,
G E	440	0.2100	1 15		Forest w/Heavy Litter Kv= 2.5 fps
6.5	448	0.2100	1.15		Shallow Concentrated Flow,
9.2	645	0.2200	1.17		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
9.2	043	0.2200	1.17		Forest w/Heavy Litter Kv= 2.5 fps
6.6	497	0.2500	1.25		Shallow Concentrated Flow,
0.0	407	0.2000	1.20		Forest w/Heavy Litter Kv= 2.5 fps
9.2	536	0.1500	0.97		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
6.2	434	0.2200	1.17		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
15.1	714	0.1000	0.79		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
10.2	649	0.1800	1.06		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
9.9	645	0.1900	1.09		Shallow Concentrated Flow,
4.5	007	0.0400	4.45		Forest w/Heavy Litter Kv= 2.5 fps
4.5	307	0.2100	1.15		Shallow Concentrated Flow,
F 0	220	0.4400	0.04		Forest w/Heavy Litter Kv= 2.5 fps
5.8	328	0.1400	0.94		Shallow Concentrated Flow,
0.5	199	0.0200	6.96	20.87	Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow,
0.5	199	0.0200	0.90	20.07	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022 Earth, clean & straight
100.4	6,015	Total			Older Laini, oldan a draight
100.4	0,010	iotai			

Summary for Subcatchment 84S: WS14

Runoff = 5.24 cfs @ 12.28 hrs, Volume= 0.543 af, Depth= 1.82"

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Area	(ac) C	N Desc	cription							
_	0.691 71 Existing meadow, non-grazed, HSG C									
_	0.959 70 Existing Woods, Good, HSG C									
_	0.182 98 Existing impervious, HSG D									
	0.231 78 Existing meadow, non-grazed, HSG D									
	_			s, Good, H	SG D					
_			ghted Aver							
_	405		3% Pervio							
0.	182	5.07	% Impervi	ous Area						
То	Longth	Clana	\/alaaitu	Canacity	Description					
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity	Capacity (cfs)	Description					
		0.1300	(ft/sec)	(CIS)	Chast Flour					
10.8	45	0.1300	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.40"					
0.1	8	0.1300	0.90		Shallow Concentrated Flow,					
0.1	0	0.1300	0.90		Forest w/Heavy Litter Kv= 2.5 fps					
5.1	350	0.2100	1.15		Shallow Concentrated Flow,					
0.1	000	0.2100	1.10		Forest w/Heavy Litter Kv= 2.5 fps					
5.8	313	0.1300	0.90		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
4.2	294	0.2200	1.17		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
3.0	168	0.1400	0.94		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
3.4	163	0.1000	0.79		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.1	60	0.0500	11.00	32.99	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
32.5	1,401	Total								

Summary for Subcatchment 85S: WS15

Runoff = 23.10 cfs @ 13.10 hrs, Volume= 5.204 af, Depth= 1.67"

Area (ac)	CN	Description
8.870	71	Existing meadow, non-grazed, HSG C
16.898	70	Existing Woods, Good, HSG C
0.067	98	Existing impervious, HSG D
2.332	78	Existing meadow, non-grazed, HSG D
9.172	77	Existing Woods, Good, HSG D
37.339	73	Weighted Average
37.272		99.82% Pervious Area
0.067		0.18% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
_	10.8	72	0.3300	0.11	, ,	Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	6.8	586	0.3300	1.44		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	7.9	673	0.3200	1.41		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	9.6	625	0.1900	1.09		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	8.9	664	0.2500	1.25		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	8.9	484	0.1300	0.90		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	10.7	700	0.1900	1.09		Shallow Concentrated Flow,
	40.0	500	0.4400	0.00		Forest w/Heavy Litter Kv= 2.5 fps
	10.6	529	0.1100	0.83		Shallow Concentrated Flow,
	44.0	747	0.4700	4.00		Forest w/Heavy Litter Kv= 2.5 fps
	11.6	717	0.1700	1.03		Shallow Concentrated Flow,
	0.7	E70	0.4700	12.40	124.04	Forest w/Heavy Litter Kv= 2.5 fps
	0.7	573	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	0.5	206	0.1800	13.88	138.82	n= 0.050 Mountain streams w/large boulders
	0.5	386	0.1600	13.00	130.02	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	2.2	150	0.2000	1.12		n= 0.050 Mountain streams w/large boulders
	2.2	130	0.2000	1.12		Shallow Concentrated Flow,
	2.8	119	0.0800	0.71		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
	2.0	119	0.0000	0.71		Forest w/Heavy Litter Kv= 2.5 fps
_	00.0	6.070	Total			1 Olest Willeavy Liller NV- 2.0 Ips
	92.0	6,278	Total			

Summary for Subcatchment 86S: WS16

Runoff = 1.36 cfs @ 12.04 hrs, Volume= 0.079 af, Depth= 2.29"

 Area (ac)	CN	Description
0.078	98	Existing impervious, HSG D
0.048	78	Existing meadow, non-grazed, HSG D
 0.290	77	Existing Woods, Good, HSG D
0.416	81	Weighted Average
0.338		81.25% Pervious Area
0.078		18.75% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	10.7	51	0.1700	0.08		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	1.0	63	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.2	153	0.0700	13.01	39.04	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_						n= 0.022 Earth, clean & straight
	11.9	267	Total			

Summary for Subcatchment 87S: WS17

8.94 cfs @ 12.35 hrs, Volume= 1.029 af, Depth= 1.67" Runoff

Area	(ac) C	N Desc	cription							
0.	0.194 98 Existing impervious, HSG D									
1.	1.145 71 Existing meadow, non-grazed, HSG C									
0.	0.402 78 Existing meadow, non-grazed, HSG D									
				s, Good, H						
-			ting Wood	s, Good, H	SG D					
			ghted Aver							
	192		7% Pervio							
0.	194	2.63	% Impervi	ous Area						
T .	1 41.	01	V - L 14	0	December Reco					
Tc (min)	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Oh a st Eland					
10.6	44	0.1300	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.40"					
9.8	531	0.1300	0.90		Shallow Concentrated Flow,					
9.0	JJ 1	0.1300	0.90		Forest w/Heavy Litter Kv= 2.5 fps					
1.5	236	0.1500	2.71		Shallow Concentrated Flow,					
1.0	200	0.1000	2.7 1		Short Grass Pasture Kv= 7.0 fps					
5.8	372	0.1800	1.06		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
4.7	290	0.1700	1.03		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
2.6	437	0.1600	2.80		Shallow Concentrated Flow,					
					Short Grass Pasture Kv= 7.0 fps					
1.8	142	0.2700	1.30		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.3	238	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,					
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'					
					n= 0.050 Mountain streams w/large boulders					
37.1	2,290	Total								

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Summary for Subcatchment 88S: WS18

Runoff = 2.34 cfs @ 12.21 hrs, Volume= 0.213 af, Depth= 1.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 25-Year Rainfall=4.20"

Area	(ac) C	N Desc	cription					
0.	0.172 71 Existing meadow, non-grazed, HSG C							
1.110 70 Existing Woods, Good, HSG C								
				vious, HSG				
					azed, HSG D			
				s, Good, H				
			ghted Aver					
	.578	•	9% Pervio	•				
	.021		% Impervi					
0.	.021	1.01	70 Impervi	ous Aica				
Tc	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Boomption			
10.8	57	0.2100	0.09	(0.0)	Sheet Flow,			
10.0	31	0.2100	0.09		Woods: Dense underbrush n= 0.800 P2= 2.40"			
1.0	68	0.2100	1.15					
1.0	00	0.2100	1.15		Shallow Concentrated Flow,			
2.0	240	0.4400	0.04		Forest w/Heavy Litter Kv= 2.5 fps			
3.9	218	0.1400	0.94		Shallow Concentrated Flow,			
4 7	004	0.4000	4.00		Forest w/Heavy Litter Kv= 2.5 fps			
4.7	281	0.1600	1.00		Shallow Concentrated Flow,			
4.0	050	0.4000	4.00		Forest w/Heavy Litter Kv= 2.5 fps			
4.3	258	0.1600	1.00		Shallow Concentrated Flow,			
	00	0.0400	4.45		Forest w/Heavy Litter Kv= 2.5 fps			
1.4	96	0.2100	1.15		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
26.1	978	Total						

Summary for Subcatchment 89S: WS20

Runoff = 38.07 cfs @ 12.59 hrs, Volume= 5.816 af, Depth= 1.74"

 Area (ac)	CN	Description
 1.023	98	Existing impervious, HSG C
0.436	98	Existing impervious, HSG D
6.987	71	Existing meadow, non-grazed, HSG C
6.713	78	Existing meadow, non-grazed, HSG D
16.006	70	Existing Woods, Good, HSG C
 8.839	77	Existing Woods, Good, HSG D
 40.004	74	Weighted Average
38.545		96.35% Pervious Area
1.459		3.65% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
3.9	242	0.1700	1.03		Shallow Concentrated Flow,
4.0	070	0.0500	2.50		Forest w/Heavy Litter Kv= 2.5 fps
1.3	278	0.2500	3.50		Shallow Concentrated Flow,
1.8	258	0.1200	2.42		Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,
1.0	230	0.1200	2.42		Short Grass Pasture Kv= 7.0 fps
0.9	134	0.1300	2.52		Shallow Concentrated Flow,
0.0	101	0.1000	2.02		Short Grass Pasture Kv= 7.0 fps
0.4	77	0.2600	3.57		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
1.0	165	0.1700	2.89		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
2.4	177	0.2400	1.22		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.6	237	0.1300	2.52		Shallow Concentrated Flow,
4 -	000	0.4000	0.04		Short Grass Pasture Kv= 7.0 fps
1.7	232	0.1000	2.21		Shallow Concentrated Flow,
12.7	EAA	0.0700	0.66		Short Grass Pasture Kv= 7.0 fps
13.7	544	0.0700	0.66		Shallow Concentrated Flow,
7.4	332	0.0900	0.75		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
7.4	332	0.0900	0.73		Forest w/Heavy Litter Kv= 2.5 fps
3.5	188	0.1300	0.90		Shallow Concentrated Flow,
0.0	100	0.1000	0.00		Forest w/Heavy Litter Kv= 2.5 fps
3.5	252	0.2300	1.20		Shallow Concentrated Flow,
			_		Forest w/Heavy Litter Kv= 2.5 fps
0.4	298	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.2	200	0.1800	13.88	138.82	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
				400 -0	n= 0.050 Mountain streams w/large boulders
0.3	229	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.2	227	0.4600	12.00	120.00	n= 0.050 Mountain streams w/large boulders
0.3	227	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.3	242	0.1300	11.80	117.97	Trap/Vee/Rect Channel Flow,
0.0	4 74	3.1000	11.00	111.01	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
55.5	4,364	Total			g
	,				

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Summary for Subcatchment 90S: WS21

Runoff = 7.16 cfs @ 12.38 hrs, Volume= 0.868 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 25-Year Rainfall=4.20"

	Area	(ac) C	N Desc	cription						
	0.020 98 Existing impervious, HSG D									
	0.181 71 Existing meadow, non-grazed, HSG C									
	0.412 78 Existing meadow, non-grazed, HSG D									
	3.099 70 Existing Woods, Good, HSG C									
_	2.516 77 Existing Woods, Good, HSG D									
	6.228 73 Weighted Average									
		208	99.6	8% Pervio	us Area					
	0.	020	0.32	% Impervi	ous Area					
	_									
	Tc	Length	Slope	Velocity		Description				
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	10.9	40	0.1000	0.06		Sheet Flow,				
						Woods: Dense underbrush n= 0.800 P2= 2.40"				
	3.6	173	0.1000	0.79		Shallow Concentrated Flow,				
	- 0	050	0.0000	4.40		Forest w/Heavy Litter Kv= 2.5 fps				
	5.3	356	0.2000	1.12		Shallow Concentrated Flow,				
	4.5	262	0.4500	0.07		Forest w/Heavy Litter Kv= 2.5 fps				
	4.5	262	0.1500	0.97		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps				
	2.2	150	0.2000	1.12		Shallow Concentrated Flow,				
	۷.۷	130	0.2000	1.12		Forest w/Heavy Litter Kv= 2.5 fps				
	6.5	364	0.1400	0.94		Shallow Concentrated Flow,				
	0.0	004	0.1400	0.54		Forest w/Heavy Litter Kv= 2.5 fps				
	3.3	189	0.1500	0.97		Shallow Concentrated Flow,				
	0.0			0.0.		Forest w/Heavy Litter Kv= 2.5 fps				
	3.5	194	0.1400	0.94		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	0.1	69	0.0300	8.52	25.56	Trap/Vee/Rect Channel Flow,				
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
_						n= 0.022 Earth, clean & straight				
	39.9	1,797	Total							

Summary for Subcatchment 91S: WS22

Runoff = 9.25 cfs @ 12.47 hrs, Volume= 1.234 af, Depth= 1.97"

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Area	(ac) C	N Desc	cription							
0.	0.074 98 Existing impervious, HSG D									
0.	0.307 71 Existing meadow, non-grazed, HSG C									
2.	2.930 78 Existing meadow, non-grazed, HSG D									
				s, Good, H						
3.	.329 7	7 Exist	ting Wood	s, Good, H	SG D					
			ghted Aver							
	.442		2% Pervio							
0.	.074	0.98	% Impervi	ous Area						
_		-			—					
Tc	Length	Slope	Velocity	Capacity	Description					
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.9	42	0.1100	0.06		Sheet Flow,					
5 0	000	0.4400	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"					
5.8	290	0.1100	0.83		Shallow Concentrated Flow,					
F 2	200	0.4400	0.00		Forest w/Heavy Litter Kv= 2.5 fps					
5.3	266	0.1100	0.83		Shallow Concentrated Flow,					
7.0	395	0.1400	0.94		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,					
7.0	393	0.1400	0.94		Forest w/Heavy Litter Kv= 2.5 fps					
5.2	315	0.1600	1.00		Shallow Concentrated Flow,					
0.2	010	0.1000	1.00		Forest w/Heavy Litter Kv= 2.5 fps					
6.4	382	0.1600	1.00		Shallow Concentrated Flow,					
• • • • • • • • • • • • • • • • • • • •					Forest w/Heavy Litter Kv= 2.5 fps					
6.5	377	0.1500	0.97		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.1	44	0.0200	6.96	20.87	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/ Top.W=4.00'					
					n= 0.022 Earth, clean & straight					
47.3	2,111	Total								

Summary for Subcatchment 92S: WS23

Runoff = 4.42 cfs @ 12.23 hrs, Volume= 0.417 af, Depth= 1.89"

Area (ac)	CN	Description						
0.039	98	Existing impervious, HSG D						
0.363	71	Existing meadow, non-grazed, HSG C						
0.449	78	Existing meadow, non-grazed, HSG D						
0.148	70	Existing Woods, Good, HSG C						
1.643	77	Existing Woods, Good, HSG D						
2.642	76	Weighted Average						
2.603		98.52% Pervious Area						
0.039		1.48% Impervious Area						

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(r	Tc min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
•	10.8	50	0.1600	0.08		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	3.5	212	0.1600	1.00		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.3	247	0.1500	0.97		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.6	267	0.1500	0.97		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	5.0	280	0.1400	0.94		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.1	66	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022 Earth, clean & straight
2	28.3	1,122	Total			

Summary for Subcatchment 93S: WS1A

Runoff = 5.36 cfs @ 12.23 hrs, Volume= 0.505 af, Depth= 1.97"

Area	(ac) C	N Des	cription					
0.	.011 7	'8 Exis	ting mead	ow, non-gra	azed, HSG D			
3	.065 7	77 Exis	ting Wood	s, Good, H	SG D			
3.076 77 Weighted Average								
3	.076	100.	00% Pervi	ous Area				
_				_				
Tc	Length	Slope	Velocity	Capacity	Description			
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)				
10.9	31	0.0600	0.05		Sheet Flow,			
					Woods: Dense underbrush n= 0.800 P2= 2.40"			
5.2	191	0.0600	0.61		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
1.1	59	0.1400	0.94		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
4.9	193	0.0700	0.66		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
4.1	161	0.0700	0.66		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
2.2	107	0.1100	0.83		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
0.1	79	0.0500	9.26	314.98	Trap/Vee/Rect Channel Flow,			
					Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'			
					n= 0.050 Mountain streams w/large boulders			
28.5	821	Total						

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Summary for Subcatchment 94S: WS1B

Runoff = 22.94 cfs @ 12.06 hrs, Volume= 1.445 af, Depth= 2.05"

Area	Area (ac) CN Description								
0.	0.425 98 Existing impervious, HSG D								
					azed, HSG D				
7.	619 7	7 Exis	ting Wood	s, Good, H	SG D				
8.	471 7		ghted Aver						
	046	94.9							
0.	425	5.02	% Impervi	ous Area					
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
10.9	38	0.0900	0.06		Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
0.4	336	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.022 Earth, clean & straight				
0.4	339	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
0.4	000	0.0700	40.04	00.04	n= 0.022 Earth, clean & straight				
0.4	336	0.0700	13.01	39.04	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
0.4	278	0.0600	12.05	36.14	n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow,				
0.4	210	0.0000	12.03	30.14	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.022 Earth, clean & straight				
0.4	283	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,				
0.4	203	0.0000	12.03	30.14	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.022 Earth, clean & straight				
0.1	118	0.0800	13.91	41.73	Trap/Vee/Rect Channel Flow,				
0.1	110	0.0000	10.51	41.70	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.022 Earth, clean & straight				
0.2	164	0.0700	13.01	39.04	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.022 Earth, clean & straight				
0.1	83	0.1400	18.40	55.21	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/ Top.W=4.00'				
					n= 0.022 Earth, clean & straight				
8.0	505	0.0600	10.15	345.05	Trap/Vee/Rect Channel Flow,				
					Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'				
					n= 0.050 Mountain streams w/large boulders				
14.1	2,480	Total							

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Summary for Subcatchment 95S: WS1C

Runoff = 25.08 cfs @ 12.47 hrs, Volume= 3.312 af, Depth= 2.29"

 Area (ac)	CN	Description					
 3.281	98	Existing impervious, HSG D					
3.704	78	Existing meadow, non-grazed, HSG D					
 10.364	77	Existing Woods, Good, HSG D					
 17.349	81	Weighted Average					
14.068		81.09% Pervious Area					
3.281		18.91% Impervious Area					

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(min) (feet) (ft/ft) (ft/sec) (cfs) 10.7 48 0.1500 0.07 Sheet Flow, Woods: Dense underbrush n= 0.800 Flow, Shallow Concentrated Flow, 3.0 172 0.1500 0.97 Shallow Concentrated Flow,	P2= 2.40"
3.0 172 0.1500 0.97 Shallow Concentrated Flow,	P2= 2.40"
·	
Forest w/Heavy Litter Kv= 2.5 fps	
4.9 164 0.0500 0.56 Shallow Concentrated Flow,	
Forest w/Heavy Litter Kv= 2.5 fps	
0.9 77 0.3100 1.39 Shallow Concentrated Flow,	
Forest w/Heavy Litter Kv= 2.5 fps 0.2 157 0.0600 12.05 36.14 Trap/Vee/Rect Channel Flow,	
0.2 157 0.0600 12.05 36.14 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=	-4 00'
n= 0.022 Earth, clean & straight	-4.00
0.5 350 0.0600 12.05 36.14 Trap/Vee/Rect Channel Flow,	
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=	=4 00'
n= 0.022 Earth, clean & straight	-4.00
0.2 219 0.0900 14.75 44.26 Trap/Vee/Rect Channel Flow,	
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=	=4 00'
n= 0.022 Earth, clean & straight	4.00
0.3 251 0.0900 14.75 44.26 Trap/Vee/Rect Channel Flow,	
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=	=4.00'
n= 0.022 Earth, clean & straight	
0.4 316 0.0600 12.05 36.14 Trap/Vee/Rect Channel Flow,	
Bot.W=2.00' D=1.00' Z= 1.0 '/ Top.W=	=4.00'
n= 0.022 Earth, clean & straight	
0.1 73 0.1900 21.44 64.31 Trap/Vee/Rect Channel Flow,	
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=	=4.00'
n= 0.022 Earth, clean & straight	
0.4 300 0.0700 13.01 39.04 Trap/Vee/Rect Channel Flow,	
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=	=4.00'
n= 0.022 Earth, clean & straight	
0.4 179 0.0200 6.96 20.87 Trap/Vee/Rect Channel Flow,	4.001
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=	=4.00'
n= 0.022 Earth, clean & straight	
10.2 342 0.0500 0.56 Shallow Concentrated Flow,	
Forest w/Heavy Litter Kv= 2.5 fps	
5.2 236 0.0900 0.75 Shallow Concentrated Flow,	
Forest w/Heavy Litter Kv= 2.5 fps 4.7 199 0.0800 0.71 Shallow Concentrated Flow,	
Forest w/Heavy Litter Kv= 2.5 fps	
4.7 224 0.1000 0.79 Shallow Concentrated Flow,	
Forest w/Heavy Litter Kv= 2.5 fps	
0.6 360 0.0800 9.25 92.55 Trap/Vee/Rect Channel Flow,	
Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=	=7.00'
n= 0.050 Mountain streams w/large bou	
47.4 3,667 Total	

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Summary for Subcatchment 96S: WS1D

Runoff = 94.45 cfs @ 12.43 hrs, Volume= 12.030 af, Depth= 1.82"

 Area (ac)	CN	Description					
4.794	98	Existing impervious, HSG C					
1.682	98	Existing impervious, HSG D					
15.372	71	Existing meadow, non-grazed, HSG C					
10.464	78	Existing meadow, non-grazed, HSG D					
27.478	70	Existing Woods, Good, HSG C					
 19.608	77	Existing Woods, Good, HSG D					
79.398	75	Weighted Average					
72.922		91.84% Pervious Area					
6.476		8.16% Impervious Area					

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.2300	0.27		Sheet Flow,
					Grass: Dense n= 0.240 P2= 2.40"
1.9	388	0.2300	3.36		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
4.4	312	0.2200	1.17		Shallow Concentrated Flow,
	4.40	0.4400	0.04		Forest w/Heavy Litter Kv= 2.5 fps
7.8	440	0.1400	0.94		Shallow Concentrated Flow,
0.4	400	0.1100	40.04	40.04	Forest w/Heavy Litter Kv= 2.5 fps
0.1	123	0.1100	16.31	48.94	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022 Earth, clean & straight
0.6	266	0.1300	7.32		Shallow Concentrated Flow,
0.0	200	0.1000	7.02		Paved Kv= 20.3 fps
6.2	457	0.2400	1.22		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.1	130	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022 Earth, clean & straight
0.4	378	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.0	050	0.0000	44.75	44.00	n= 0.022 Earth, clean & straight
0.3	258	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.3	263	0.1200	17.04	51.11	n= 0.022 Earth, clean & straight Trap/Vee/Rect Channel Flow,
0.3	203	0.1200	17.04	31.11	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022 Earth, clean & straight
4.2	242	0.1500	0.97		Shallow Concentrated Flow,
		0000	0.0.		Forest w/Heavy Litter Kv= 2.5 fps
2.3	150	0.1900	1.09		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.6	256	0.1400	0.94		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.4	314	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.5	070	0.4400	40.04	400.40	n= 0.050 Mountain streams w/large boulders
0.5	3/3	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	447	0.1200	11.33	113.34	Trap/Vee/Rect Channel Flow,
0.1	771	0.1200	11.00	110.04	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
1.1	658	0.0900	9.82	98.16	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.7	390	0.0500	8.83	212.04	Trap/Vee/Rect Channel Flow,
					Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00'
2.2	505	0.0000	40.45	0.45.05	n= 0.050 Mountain streams w/large boulders
8.0	505	0.0600	10.15	345.05	Trap/Vee/Rect Channel Flow,
					Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'

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n= 0.050 Mountain streams w/large boulders

43.6 6,450 Total

Summary for Subcatchment 97S: WS24

Runoff = 12.32 cfs @ 12.52 hrs, Volume= 1.735 af, Depth= 2.05"

Area	(ac) C	N Desc	cription					
				vious, HSG				
		71 Existing meadow, non-grazed, HSG C						
		78 Existing meadow, non-grazed, HSG D						
		0 , ,						
				s, Good, H	SG D			
			ghted Aver					
	712		1% Pervio					
U.	457	4.49	% Impervi	ous Area				
Тс	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Description			
10.7	43		0.07	(===)	Sheet Flow,			
			0.0.		Woods: Dense underbrush n= 0.800 P2= 2.40"			
11.8	613	0.1200	0.87		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
8.9	420	0.1000	0.79		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
2.5	139	0.1400	0.94		Shallow Concentrated Flow,			
	400				Forest w/Heavy Litter Kv= 2.5 fps			
2.2	108	0.1100	0.83		Shallow Concentrated Flow,			
4.0	007	0.4000	0.00		Forest w/Heavy Litter Kv= 2.5 fps			
4.2	227	0.1300	0.90		Shallow Concentrated Flow,			
1.4	240	0.1600	2.80		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,			
1.4	240	0.1000	2.00		Short Grass Pasture Kv= 7.0 fps			
1.2	201	0.1600	2.80		Shallow Concentrated Flow,			
1.2	201	0.1000	2.00		Short Grass Pasture Kv= 7.0 fps			
3.9	225	0.1500	0.97		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
4.3	242	0.1400	0.94		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
0.0	19	0.2100	12.09	36.28	Trap/Vee/Rect Channel Flow,			
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
					n= 0.041 Riprap, 2-inch			
51.1	2,477	Total						

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Summary for Subcatchment 98S: WS19

Runoff = 7.75 cfs @ 12.48 hrs, Volume= 1.065 af, Depth= 1.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs Type II 24-hr 25-Year Rainfall=4.20"

Area	(ac) C	N Desc	cription							
0	.008 9	98 Exist	ting imper	vious, HSG	D					
0	.954 7	'1 Exist	ting mead	ow, non-gra	azed, HSG C					
	0.384 78 Existing meadow, non-grazed, HSG D									
	4.939 70 Existing Woods, Good, HSG C									
-	1.690 77 Existing Woods, Good, HSG D									
			ghted Aver	0						
	.967		0% Pervio							
0	.008	0.10	% Impervi	ous Area						
т.	ما السميد ا	Clana	\/alaaitu	Conneitu	Description					
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description					
	41			(615)	Chast Flour					
10.7	41	0.1100	0.06		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.40"					
5.3	262	0.1100	0.83		Shallow Concentrated Flow,					
0.0	202	0.1100	0.00		Forest w/Heavy Litter Kv= 2.5 fps					
7.3	422	0.1500	0.97		Shallow Concentrated Flow,					
			0.0.		Forest w/Heavy Litter Kv= 2.5 fps					
8.1	501	0.1700	1.03		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
3.1	213	0.2100	1.15		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
4.6	258	0.1400	0.94		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
7.7	465	0.1600	1.00		Shallow Concentrated Flow,					
0.4	400	0.0000	40.05	20.44	Forest w/Heavy Litter Kv= 2.5 fps					
0.1	102	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight					
47.0	2 264	Total			11- 0.022 Lattii, Geati & Straight					

47.0 2,264 Total

Summary for Subcatchment 103S: WS 1CA

Runoff = 30.52 cfs @ 12.01 hrs, Volume= 1.713 af, Depth= 2.73"

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	Area	(ac) C	N Desc	cription					
	3.139 98 Existing impervious, HSG D								
	0.835 78 Existing meadow, non-grazed, HSG D								
	3.561 77 Existing Woods, Good, HSG D								
_	7.535 86 Weighted Average								
		396		4% Pervio	•				
		139			vious Area				
				'					
	Tc	Length	Slope	Velocity	Capacity	Description			
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	·			
_	1.1	100	0.0400	1.57		Sheet Flow,			
						Smooth surfaces n= 0.011 P2= 2.40"			
	3.0	89	0.0400	0.50		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	2.0	161	0.3000	1.37		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	0.4	391	0.0500	16.63	166.28	Trap/Vee/Rect Channel Flow,			
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'			
						n= 0.022 Earth, clean & straight			
	3.6	208	0.1500	0.97		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
	10.1	949	Total						

Summary for Subcatchment 106S: WS 1G

Runoff = 45.13 cfs @ 12.31 hrs, Volume= 4.912 af, Depth= 1.74"

	Area (ac)	CN	Description					
_	0.906	71	Existing meadow, non-grazed, HSG C					
	12.918	70	Existing Woods, Good, HSG C					
	0.004	98	Existing impervious, HSG D					
	3.805	78	Existing meadow, non-grazed, HSG D					
_	16.155	77	Existing Woods, Good, HSG D					
_	33.788	74	Weighted Average					
	33.784		99.99% Pervious Area					
	0.004		0.01% Impervious Area					

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To (min)	-	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	100	0.1200	0.21		Sheet Flow,
					Grass: Dense n= 0.240 P2= 2.40"
1.3	182	0.1200	2.42		Shallow Concentrated Flow,
4 -	440	0.4000	4.50		Short Grass Pasture Kv= 7.0 fps
4.7	443	0.4000	1.58		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
0.6	118	0.2200	3.28		Shallow Concentrated Flow,
0.0	110	0.2200	3.20		Short Grass Pasture Kv= 7.0 fps
1.9	458	0.3200	3.96		Shallow Concentrated Flow,
1.0	100	0.0200	0.00		Short Grass Pasture Kv= 7.0 fps
8.9	564	0.1800	1.06		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.0	366	0.3700	1.52		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.5	162	0.1900	1.09		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.5	449	0.2000	14.63	146.33	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.5	. 450	0.0000	44.00	440.00	n= 0.050
0.5	450	0.2000	14.63	146.33	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	408	0.2100	14.99	149.94	
0.0	700	0.2100	17.55	143.54	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.7	554	0.1500	12.67	126.72	
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.5	391	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
34.6	4,645	Total			

Summary for Subcatchment 107S: WS 1H

Runoff = 56.38 cfs @ 12.60 hrs, Volume= 8.649 af, Depth= 1.74"

Area (ac)	CN	Description
2.007	71	Existing meadow, non-grazed, HSG C
22.781	70	Existing Woods, Good, HSG C
4.416	78	Existing meadow, non-grazed, HSG D
30.287	77	Existing Woods, Good, HSG D
59.491	74	Weighted Average
59.491		100.00% Pervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
 10.7	59	0.2300	0.09		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
1.5	105	0.2300	1.20		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.3	330	0.3600	4.20		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
2.3	212	0.3900	1.56		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.5	108	0.2400	3.43		Shallow Concentrated Flow,
4.0	0.40	0.0000	4.44		Short Grass Pasture Kv= 7.0 fps
4.0	346	0.3300	1.44		Shallow Concentrated Flow,
2.2	100	0.4500	0.07		Forest w/Heavy Litter Kv= 2.5 fps
3.3	190	0.1500	0.97		Shallow Concentrated Flow,
4.8	320	0.2000	1.12		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
4.0	320	0.2000	1.12		Forest w/Heavy Litter Kv= 2.5 fps
4.8	411	0.3200	1.41		Shallow Concentrated Flow,
4.0	711	0.0200	1.71		Forest w/Heavy Litter Kv= 2.5 fps
3.0	281	0.3900	1.56		Shallow Concentrated Flow,
0.0		0.000			Forest w/Heavy Litter Kv= 2.5 fps
3.2	255	0.2900	1.35		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.0	223	0.2400	1.22		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
10.3	601	0.1500	0.97		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.8	147	0.2900	1.35		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.5	403	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.4	0.40	0.4000	44.00	400.00	n= 0.050 Mountain streams w/large boulders
0.4	348	0.1600	14.26	199.63	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
0.5	165	0.1000	15 51	217 55	n= 0.050 Mountain streams w/large boulders
0.5	465	0.1900	15.54	217.55	Trap/Vee/Rect Channel Flow, Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.050 Mountain streams w/large boulders
 55 O	4,804	Total			11- 0.000 Mountain streams whatge boulders
55.9	4,004	างเลเ			

Summary for Subcatchment 108S: WS1F

Runoff = 42.31 cfs @ 12.49 hrs, Volume= 5.858 af, Depth= 1.74"

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_	Area	(ac) C	N Des	cription		
	0.	002 9	98 Exis	ting imper	vious, HSG	C
					vious, HSG	
						azed, HSG C
						azed, HSG D
				•	s, Good, H	
-					s, Good, H	3G D
		294 <i>1</i> 930		ghted Aver 0% Pervio		
		364		% Impervi		
	0.	001	0.00	70 IIIIpoi Vi	00071100	
	Тс	Length	Slope	Velocity	Capacity	Description
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	10.9	52	0.1700	0.08		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	3.8	237	0.1700	1.03		Shallow Concentrated Flow,
	4.0	070	0.4000	4.00		Forest w/Heavy Litter Kv= 2.5 fps
	4.2	276	0.1900	1.09		Shallow Concentrated Flow,
	3.7	148	0.0700	0.66		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
	0.7	140	0.0700	0.00		Forest w/Heavy Litter Kv= 2.5 fps
	6.9	402	0.1500	0.97		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.5	396	0.3500	1.48		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.9	373	0.4000	1.58		Shallow Concentrated Flow,
	4.1	334	0.3000	1 27		Forest w/Heavy Litter Kv= 2.5 fps
	4.1	334	0.3000	1.37		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
	4.7	331	0.2200	1.17		Shallow Concentrated Flow,
	1.7	001	0.2200	,		Forest w/Heavy Litter Kv= 2.5 fps
	0.4	341	0.2300	15.69	156.92	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050 Mountain streams w/large boulders
	0.4	396	0.2200	15.35	153.47	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	0.4	367	0.2300	15.69	156.92	n= 0.050 Mountain streams w/large boulders Trap/Vee/Rect Channel Flow,
	0.4	307	0.2300	15.09	150.92	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050 Mountain streams w/large boulders
	0.5	394	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,
				_		Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
						n= 0.050 Mountain streams w/large boulders
	0.2	144	0.2200	15.35	153.47	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
_	46.5	4 15:	-			n= 0.050 Mountain streams w/large boulders
	48.6	4,191	Total			

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Summary for Subcatchment 110S: WS1E

Runoff = 28.96 cfs @ 12.59 hrs, Volume= 4.446 af, Depth= 1.67"

 Area (ac)	CN	Description				
0.328	98	Existing impervious, HSG C				
0.082	98	Existing impervious, HSG D				
3.846	71	Existing meadow, non-grazed, HSG C				
4.272	78	Existing meadow, non-grazed, HSG D				
17.223	70	Existing Woods, Good, HSG C				
 6.150	77	Existing Woods, Good, HSG D				
31.901	73	Weighted Average				
31.491		98.71% Pervious Area				
0.410		1.29% Impervious Area				

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	53	0.1800	0.08	, ,	Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	113	0.1800	1.06		Shallow Concentrated Flow,
0.0	454	0.0400	4.45		Forest w/Heavy Litter Kv= 2.5 fps
2.2	154	0.2100	1.15		Shallow Concentrated Flow,
3.4	191	0.1400	0.94		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
3.4	191	0.1400	0.94		Forest w/Heavy Litter Kv= 2.5 fps
2.4	146	0.1600	1.00		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.8	137	0.2500	1.25		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.6	204	0.2800	1.32		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.3	134	0.1500	0.97		Shallow Concentrated Flow,
4.0	000	0.0000	4.40		Forest w/Heavy Litter Kv= 2.5 fps
4.3	286	0.2000	1.12		Shallow Concentrated Flow,
3.3	261	0.2700	1.30		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
3.3	201	0.2700	1.50		Forest w/Heavy Litter Kv= 2.5 fps
5.2	341	0.1900	1.09		Shallow Concentrated Flow,
0.2	0	0000	1.00		Forest w/Heavy Litter Kv= 2.5 fps
6.3	423	0.2000	1.12		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.7	301	0.1800	1.06		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.9	196	0.2000	1.12		Shallow Concentrated Flow,
0.0	000	0.4500	40.07	400.70	Forest w/Heavy Litter Kv= 2.5 fps
0.3	223	0.1500	12.67	126.72	•
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	333	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
0.4	000	0.1700	10.40	104.51	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.5	440	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.2	189	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
55.4	4,125	Total			

Summary for Subcatchment 111S: WS4A

Runoff = 34.51 cfs @ 12.70 hrs, Volume= 5.805 af, Depth= 1.82"

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Area	(ac) C	N Desc	cription					
0.	521 7	'1 Exis	ting mead	ow, non-gra	azed, HSG C			
4.	362 7	'8 Exis	ting mead	ow, non-gra	azed, HSG D			
12.	444 7	0 Exis	ting Wood	s, Good, H	SG C			
20.988 77 Existing Woods, Good, HSG D								
38.315 75 Weighted Average								
38.315 100.00% Pervious Area								
Tc	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	·			
10.7	73	0.3500	0.11	, , ,	Sheet Flow,			
-					Woods: Dense underbrush n= 0.800 P2= 2.40"			
6.0	529	0.3500	1.48		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
4.0	350	0.3400	1.46		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
7.0	505	0.2300	1.20		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
8.5	623	0.2400	1.22		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
3.9	355	0.3700	1.52		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
4.6	337	0.2400	1.22		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
7.5	437	0.1500	0.97		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
5.5	330	0.1600	1.00		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
6.1	345	0.1400	0.94		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
0.1	45	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,			
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'			
					n= 0.050 Mountain streams w/large boulders			
63.9	3,929	Total						

Summary for Subcatchment 142S: WS1I

Runoff = 23.77 cfs @ 12.27 hrs, Volume= 2.382 af, Depth= 1.89"

Area (ac) CN	Description			
0.123	3 98	Existing impervious, HSG D			
2.494	4 70	Existing Woods, Good, HSG C			
12.48	5 77	Existing Woods, Good, HSG D			
15.102	2 76	Weighted Average			
14.979	9	99.19% Pervious Area			
0.123	3	0.81% Impervious Area			

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Tc (min)	-	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
4.7	293	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.3	337	0.1800	1.06		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.6	279	0.1600	1.00		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.8	199	0.2200	1.17		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.5	431	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.5	373	0.1400	12.24	122.43	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
0.7	447	0.1200	11.33	113.34	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
1.1	658	0.0900	9.82	98.16	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050 Mountain streams w/large boulders
31.2	3,069	Total			

Summary for Subcatchment 143S: WS1J

Runoff = 40.14 cfs @ 12.20 hrs, Volume= 3.525 af, Depth= 1.89"

Area (ac)	CN	Description		
0.230	98	Existing impervious, HSG D		
0.095	71	71 Existing meadow, non-grazed, HSG C		
0.159	78	8 Existing meadow, non-grazed, HSG D		
4.342	70	Existing Woods, Good, HSG C		
17.520	77	Existing Woods, Good, HSG D		
22.346	76	Weighted Average		
22.116 98.97% Pervious Area		98.97% Pervious Area		
0.230 1.03% Impervious Area				

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
_	10.9	52	0.1700	0.08	(===)	Sheet Flow,
		-				Woods: Dense underbrush n= 0.800 P2= 2.40"
	4.3	269	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	5.3	336	0.1800	1.06		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	2.5	167	0.2000	1.12		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.5	486	0.1300	15.28	641.91	Trap/Vee/Rect Channel Flow,
						Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
						n= 0.050
	0.5	546	0.1700	17.48	734.06	•
						Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
						n= 0.050
	0.5	483	0.1200	14.68	616.73	Trap/Vee/Rect Channel Flow,
						Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
						n= 0.050
	0.5	426	0.1100	14.06	590.48	Trap/Vee/Rect Channel Flow,
						Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
	0.4	000		40.70	50444	n= 0.050
	0.4	336	0.0900	12.72	534.11	Trap/Vee/Rect Channel Flow,
						Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'
_						n= 0.050
	25.4	3,101	Total			

Summary for Reach 40R: stream

Inflow Area = 38.315 ac, 0.00% Impervious, Inflow Depth = 1.82" for 25-Year event

Inflow = 34.11 cfs @ 12.83 hrs, Volume= 5.805 af

Outflow = 34.02 cfs @ 12.89 hrs, Volume= 5.805 af, Atten= 0%, Lag= 3.2 min

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

Max. Velocity= 6.84 fps, Min. Travel Time= 1.9 min Avg. Velocity = 1.99 fps, Avg. Travel Time= 6.5 min

Peak Storage= 3,834 cf @ 12.86 hrs

Average Depth at Peak Storage= 0.74', Surface Width= 7.48' Bank-Full Depth= 2.00' Flow Area= 16.0 sf, Capacity= 186.92 cfs

6.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 10.00'

Length= 770.0' Slope= 0.1013 '/'

Inlet Invert= 1,563.00', Outlet Invert= 1,485.00'

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Summary for Reach 42R: stream

Inflow Area = 38.315 ac, 0.00% Impervious, Inflow Depth = 1.82" for 25-Year event

Inflow = 34.51 cfs @ 12.70 hrs, Volume= 5.805 af

Outflow = 34.11 cfs @ 12.83 hrs, Volume= 5.805 af, Atten= 1%, Lag= 8.2 min

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

Max. Velocity = 8.38 fps, Min. Travel Time = 4.9 min Avg. Velocity = 2.34 fps, Avg. Travel Time = 17.4 min

Peak Storage= 9,952 cf @ 12.75 hrs

Average Depth at Peak Storage= 0.71', Surface Width= 6.43' Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 60.47 cfs

5.00' x 1.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 2,440.0' Slope= 0.1639 '/'

Inlet Invert= 1,973.00', Outlet Invert= 1,573.00'

Summary for Reach 102R: stream

Inflow Area = 315.675 ac, 4.58% Impervious, Inflow Depth = 1.84" for 25-Year event

Inflow = 310.06 cfs @ 12.51 hrs, Volume= 48.273 af

Outflow = 309.01 cfs @ 12.55 hrs, Volume= 48.273 af, Atten= 0%, Lag= 2.6 min

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

Max. Velocity= 10.03 fps, Min. Travel Time= 1.5 min

Avg. Velocity = 2.78 fps, Avg. Travel Time= 5.3 min

Peak Storage= 27,469 cf @ 12.53 hrs

Average Depth at Peak Storage= 2.18', Surface Width= 16.35'

Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 883.89 cfs

12.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 20.00'

Length= 890.0' Slope= 0.0562 '/'

Inlet Invert= 1,480.00', Outlet Invert= 1,430.00'

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Summary for Reach 103R: stream

Inflow Area = 93.279 ac, 0.00% Impervious, Inflow Depth = 1.74" for 25-Year event

Inflow = 90.74 cfs @ 12.53 hrs, Volume= 13.561 af

Outflow = 90.60 cfs @ 12.55 hrs, Volume= 13.561 af, Atten= 0%, Lag= 1.0 min

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

Max. Velocity= 8.23 fps, Min. Travel Time= 0.6 min Avg. Velocity = 2.54 fps, Avg. Travel Time= 1.8 min

Peak Storage= 3,033 cf @ 12.54 hrs

Average Depth at Peak Storage= 1.20', Surface Width= 10.40' Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 440.61 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 275.0' Slope= 0.0800 '/'

Inlet Invert= 1,502.00', Outlet Invert= 1,480.00'



Summary for Reach 104R: stream

Inflow Area = 159.128 ac, 6.53% Impervious, Inflow Depth = 1.81" for 25-Year event

Inflow = 161.35 cfs @ 12.54 hrs, Volume= 24.047 af

Outflow = 161.00 cfs @ 12.57 hrs, Volume= 24.047 af, Atten= 0%, Lag= 1.3 min

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

Max. Velocity= 10.72 fps, Min. Travel Time= 0.8 min

Avg. Velocity = 3.11 fps, Avg. Travel Time= 2.7 min

Peak Storage= 7,449 cf @ 12.55 hrs

Average Depth at Peak Storage= 1.57', Surface Width= 11.14'

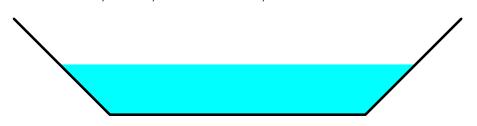
Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 495.10 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 495.0' Slope= 0.1010 '/'

Inlet Invert= 1,530.00', Outlet Invert= 1,480.00'



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Summary for Reach 108R: stream

Inflow Area = 93.279 ac, 0.00% Impervious, Inflow Depth = 1.74" for 25-Year event

Inflow = 91.35 cfs @ 12.44 hrs, Volume= 13.561 af

Outflow = 90.74 cfs @ 12.53 hrs, Volume= 13.561 af, Atten= 1%, Lag= 5.6 min

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

Max. Velocity= 10.01 fps, Min. Travel Time= 3.3 min Avg. Velocity = 3.02 fps, Avg. Travel Time= 10.9 min

Peak Storage= 17,842 cf @ 12.48 hrs

Average Depth at Peak Storage= 1.01', Surface Width= 10.01' Bank-Full Depth= 2.00' Flow Area= 20.0 sf, Capacity= 291.19 cfs

8.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 12.00'

Length= 1,968.0' Slope= 0.1443 '/'

Inlet Invert= 1,810.00', Outlet Invert= 1,526.00'

Summary for Reach 110R: stream

Inflow Area = 151.593 ac, 4.78% Impervious, Inflow Depth = 1.77" for 25-Year event

Inflow = 158.87 cfs @ 12.50 hrs, Volume= 22.334 af

Outflow = 158.28 cfs @ 12.55 hrs, Volume= 22.334 af, Atten= 0%, Lag= 2.7 min

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

Max. Velocity= 12.67 fps, Min. Travel Time= 1.5 min

Avg. Velocity = 4.19 fps, Avg. Travel Time= 4.7 min

Peak Storage= 14,714 cf @ 12.52 hrs

Average Depth at Peak Storage= 1.64', Surface Width= 9.28'

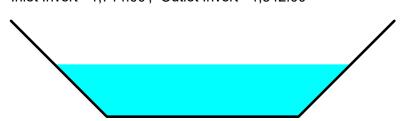
Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 465.00 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 12.00'

Length= 1,175.0' Slope= 0.1464 '/'

Inlet Invert= 1,714.00', Outlet Invert= 1,542.00'



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Summary for Reach 111R: upperstream

Inflow Area = 40.294 ac, 0.90% Impervious, Inflow Depth = 1.74" for 25-Year event

Inflow = 42.31 cfs @ 12.49 hrs, Volume= 5.858 af

Outflow = 42.16 cfs @ 12.53 hrs, Volume= 5.858 af, Atten= 0%, Lag= 2.0 min

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

Max. Velocity= 10.04 fps, Min. Travel Time= 1.1 min Avg. Velocity = 3.70 fps, Avg. Travel Time= 3.1 min

Peak Storage= 2,890 cf @ 12.51 hrs

Average Depth at Peak Storage= 1.04', Surface Width= 5.08' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 139.11 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 686.0' Slope= 0.1808 '/'

Inlet Invert= 2,074.00', Outlet Invert= 1,950.00'



Summary for Reach 112R: stream

Inflow Area = 72.195 ac, 1.07% Impervious, Inflow Depth = 1.71" for 25-Year event

Inflow = 70.83 cfs @ 12.55 hrs, Volume= 10.304 af

Outflow = 70.58 cfs @ 12.61 hrs, Volume= 10.304 af, Atten= 0%, Lag= 3.3 min

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

Max. Velocity= 10.87 fps, Min. Travel Time= 1.9 min

Avg. Velocity = 3.67 fps, Avg. Travel Time= 5.6 min

Peak Storage= 8,003 cf @ 12.57 hrs

Average Depth at Peak Storage= 1.07', Surface Width= 7.14'

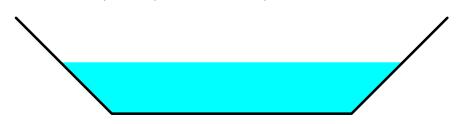
Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 210.11 cfs

5.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 9.00'

Length= 1,230.0' Slope= 0.1772 '/'

Inlet Invert= 1,950.00', Outlet Invert= 1,732.00'



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Summary for Link SP1:

Inflow Area = 322.567 ac, 4.49% Impervious, Inflow Depth = 1.84" for 25-Year event

Inflow = 313.66 cfs @ 12.55 hrs, Volume= 49.404 af

Primary = 313.66 cfs @ 12.55 hrs, Volume= 49.404 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP10:

Inflow Area = 0.758 ac, 3.56% Impervious, Inflow Depth = 2.05" for 25-Year event

Inflow = 2.00 cfs @ 12.07 hrs, Volume= 0.129 af

Primary = 2.00 cfs @ 12.07 hrs, Volume= 0.129 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP11:

Inflow Area = 16.815 ac, 1.46% Impervious, Inflow Depth = 1.82" for 25-Year event

Inflow = 12.76 cfs @ 12.93 hrs, Volume= 2.548 af

Primary = 12.76 cfs @ 12.93 hrs, Volume= 2.548 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP12:

Inflow Area = 9.755 ac, 2.26% Impervious, Inflow Depth = 1.82" for 25-Year event

Inflow = 13.63 cfs @ 12.31 hrs, Volume= 1.478 af

Primary = 13.63 cfs @ 12.31 hrs, Volume= 1.478 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP13:

Inflow Area = 22.285 ac, 1.05% Impervious, Inflow Depth = 1.67" for 25-Year event

Inflow = 12.94 cfs @ 13.24 hrs, Volume= 3.106 af

Primary = 12.94 cfs @ 13.24 hrs, Volume= 3.106 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP14:

Inflow Area = 3.587 ac, 5.07% Impervious, Inflow Depth = 1.82" for 25-Year event

Inflow = 5.24 cfs @ 12.28 hrs, Volume= 0.543 af

Primary = 5.24 cfs @ 12.28 hrs, Volume= 0.543 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP15:

Inflow Area = 37.339 ac, 0.18% Impervious, Inflow Depth = 1.67" for 25-Year event

Inflow = 23.10 cfs @ 13.10 hrs, Volume= 5.204 af

Primary = 23.10 cfs @ 13.10 hrs, Volume= 5.204 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP16:

Inflow Area = 0.416 ac, 18.75% Impervious, Inflow Depth = 2.29" for 25-Year event

Inflow = 1.36 cfs @ 12.04 hrs, Volume= 0.079 af

Primary = 1.36 cfs @ 12.04 hrs, Volume= 0.079 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP17:

Inflow Area = 7.386 ac, 2.63% Impervious, Inflow Depth = 1.67" for 25-Year event

Inflow = 8.94 cfs @ 12.35 hrs, Volume= 1.029 af

Primary = 8.94 cfs @ 12.35 hrs, Volume= 1.029 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP18:

Inflow Area = 1.599 ac, 1.31% Impervious, Inflow Depth = 1.60" for 25-Year event

Inflow = 2.34 cfs @ 12.21 hrs, Volume= 0.213 af

Primary = 2.34 cfs @ 12.21 hrs, Volume= 0.213 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP19:

Inflow Area = 7.975 ac, 0.10% Impervious, Inflow Depth = 1.60" for 25-Year event

Inflow = 7.75 cfs @ 12.48 hrs, Volume= 1.065 af

Primary = 7.75 cfs @ 12.48 hrs, Volume= 1.065 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP2:

Inflow Area = 4.825 ac, 1.45% Impervious, Inflow Depth = 1.97" for 25-Year event

Inflow = 6.24 cfs @ 12.43 hrs, Volume= 0.792 af

Primary = 6.24 cfs @ 12.43 hrs, Volume= 0.792 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP20:

Inflow Area = 40.004 ac, 3.65% Impervious, Inflow Depth = 1.74" for 25-Year event

Inflow = 38.07 cfs @ 12.59 hrs, Volume= 5.816 af

Primary = 38.07 cfs @ 12.59 hrs, Volume= 5.816 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP21:

Inflow Area = 6.228 ac, 0.32% Impervious, Inflow Depth = 1.67" for 25-Year event

Inflow = 7.16 cfs @ 12.38 hrs, Volume= 0.868 af

Primary = 7.16 cfs @ 12.38 hrs, Volume= 0.868 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP22:

Inflow Area = 7.516 ac, 0.98% Impervious, Inflow Depth = 1.97" for 25-Year event

Inflow = 9.25 cfs @ 12.47 hrs, Volume= 1.234 af

Primary = 9.25 cfs @ 12.47 hrs, Volume= 1.234 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP23:

Inflow Area = 2.642 ac, 1.48% Impervious, Inflow Depth = 1.89" for 25-Year event

Inflow = 4.42 cfs @ 12.23 hrs, Volume= 0.417 af

Primary = 4.42 cfs @ 12.23 hrs, Volume= 0.417 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP24:

Inflow Area = 10.169 ac, 4.49% Impervious, Inflow Depth = 2.05" for 25-Year event

Inflow = 12.32 cfs @ 12.52 hrs, Volume= 1.735 af

Primary = 12.32 cfs @ 12.52 hrs, Volume= 1.735 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP3:

Inflow Area = 1.513 ac, 4.49% Impervious, Inflow Depth = 2.05" for 25-Year event

Inflow = 3.60 cfs @ 12.11 hrs, Volume= 0.258 af

Primary = 3.60 cfs @ 12.11 hrs, Volume= 0.258 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP4:

Inflow Area = 58.640 ac, 0.49% Impervious, Inflow Depth = 1.84" for 25-Year event

Inflow = 47.39 cfs @ 12.11 hrs, Volume= 9.012 af

Primary = 47.39 cfs @ 12.11 hrs, Volume= 9.012 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP5:

Inflow Area = 3.053 ac, 0.39% Impervious, Inflow Depth = 1.97" for 25-Year event

Inflow = 4.74 cfs @ 12.30 hrs, Volume= 0.501 af

Primary = 4.74 cfs @ 12.30 hrs, Volume= 0.501 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP6:

Inflow Area = 29.113 ac, 0.99% Impervious, Inflow Depth = 1.89" for 25-Year event

Inflow = 39.48 cfs @ 12.36 hrs, Volume= 4.593 af

Primary = 39.48 cfs @ 12.36 hrs, Volume= 4.593 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP7:

Inflow Area = 26.547 ac, 0.94% Impervious, Inflow Depth = 1.89" for 25-Year event

Inflow = 30.05 cfs @ 12.51 hrs, Volume= 4.188 af

Primary = 30.05 cfs @ 12.51 hrs, Volume= 4.188 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP8:

Inflow Area = 0.343 ac, 19.24% Impervious, Inflow Depth = 2.29" for 25-Year event

Inflow = 1.52 cfs @ 11.91 hrs, Volume= 0.065 af

Primary = 1.52 cfs @ 11.91 hrs, Volume= 0.065 af, Atten= 0%, Lag= 0.0 min

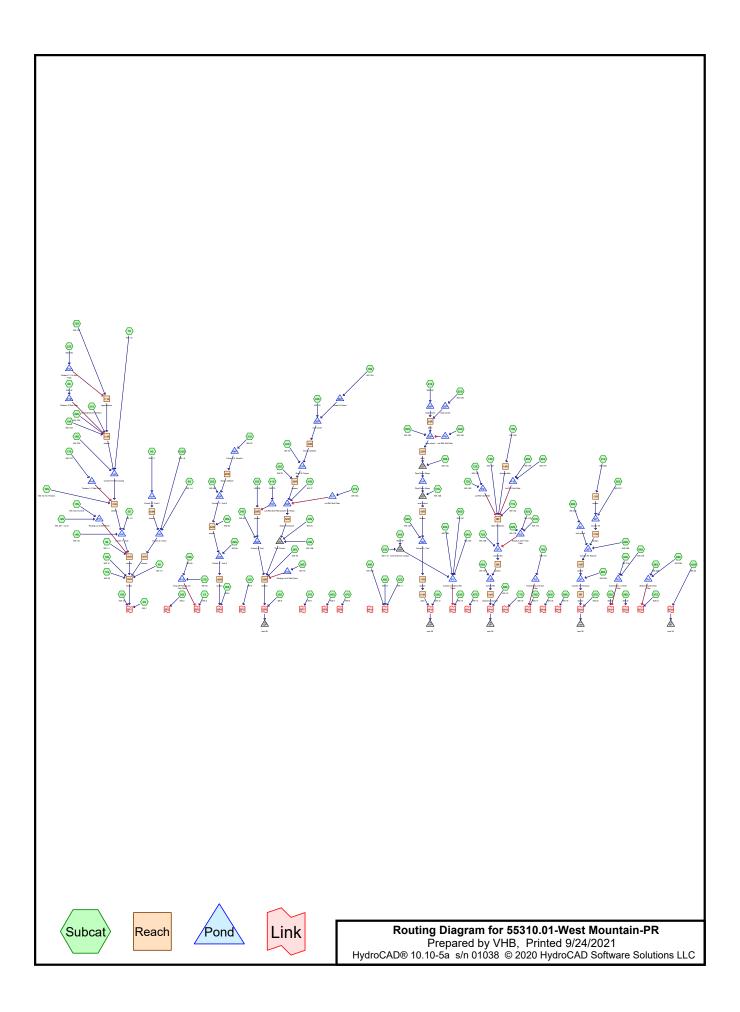
Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Summary for Link SP9:

Inflow Area = 8.117 ac, 2.27% Impervious, Inflow Depth = 1.82" for 25-Year event

Inflow = 8.69 cfs @ 12.52 hrs, Volume= 1.230 af

Primary = 8.69 cfs @ 12.52 hrs, Volume= 1.230 af, Atten= 0%, Lag= 0.0 min



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Rainfall Events Listing (selected events)

Event#	Event	Storm Type	Curve	Mode	Duration	B/B	Depth	AMC
	Name				(hours)		(inches)	
1	1-Year	Type II 24-hr		Default	24.00	1	2.00	2
2	2-Year	Type II 24-hr		Default	24.00	1	2.40	2
3	10-Year	Type II 24-hr		Default	24.00	1	3.40	2
4	25-Year	Type II 24-hr		Default	24.00	1	4.20	2

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Area Listing (all nodes)

Area	CN	Description
(acres)		(subcatchment-numbers)
103.801	70	Existing Woods, Good, HSG C (6S, 7S, 9S, 16S, 17S, 18S, 19S, 20S, 23S, 29S, 30S, 31S, 34S, 40S, 45S, 50S, 51S, 57S, 58S, 62S, 65S, 68S, 69S, 70S, 75S, 76S, 77S, 78S, 80S, 81S, 84S, 86S, 87S, 88S, 89S, 90S, 91S, 93S, 94S, 95S, 100S, 103S)
167.309	77	Existing Woods, Good, HSG D (1S, 2S, 3S, 4S, 5S, 6S, 7S, 9S, 10S, 11S, 12S, 13S, 14S, 15S, 16S, 17S, 18S, 20S, 23S, 24S, 25S, 27S, 28S, 29S, 30S, 31S, 32S, 33S, 34S, 35S, 36S, 37S, 38S, 39S, 40S, 41S, 42S, 43S, 44S, 45S, 46S, 47S, 48S, 50S, 51S, 52S, 55S, 56S, 59S, 60S, 61S, 62S, 63S, 64S, 65S, 67S, 68S, 74S, 76S, 77S, 78S, 79S, 84S, 85S, 86S, 87S, 91S, 92S, 93S, 94S, 95S, 96S, 97S, 99S, 100S, 103S)
3.235	98	Existing impervious to be treated as offset, HSG D (15S, 38S)
33.579	71	Existing meadow, non-grazed, HSG C (7S, 16S, 17S, 19S, 20S, 23S, 31S, 76S, 91S, 95S, 100S)
39.281	78	Existing meadow, non-grazed, HSG D (7S, 11S, 14S, 15S, 16S, 17S, 20S, 23S, 31S, 91S, 95S, 100S, 103S)
16.205	70	Proposed Woods, Good, HSG C (6S, 7S, 9S, 17S, 18S, 23S, 30S, 31S, 34S, 40S, 45S, 49S, 50S, 58S, 61S, 62S, 68S, 70S, 71S, 72S, 75S, 76S, 77S, 89S, 90S, 91S, 94S, 95S, 103S)
22.202	77	Proposed Woods, Good, HSG D (3S, 4S, 5S, 6S, 7S, 9S, 12S, 13S, 14S, 15S, 16S, 17S, 18S, 23S, 27S, 28S, 29S, 30S, 31S, 32S, 33S, 34S, 35S, 36S, 39S, 40S, 44S, 45S, 48S, 49S, 52S, 55S, 61S, 62S, 64S, 67S, 68S, 74S, 75S, 76S, 83S, 103S)
12.291	71	Proposed developed meadow to be treated, HSG C (8S, 17S, 22S, 51S, 54S, 59S, 65S, 66S, 73S, 79S, 80S, 83S, 91S, 93S)
16.729	78	Proposed developed meadow to be treated, HSG D (8S, 12S, 17S, 22S, 24S, 25S, 38S, 41S, 51S, 53S, 54S, 59S, 64S, 65S, 67S, 73S, 79S, 80S, 83S, 93S, 98S)
24.157	71	Proposed developed meadow, non-grazed, HSG C (7S, 16S, 18S, 19S, 20S, 21S, 23S, 30S, 31S, 40S, 43S, 45S, 49S, 50S, 56S, 57S, 58S, 60S, 62S, 67S, 68S, 69S, 70S, 71S, 72S, 74S, 75S, 76S, 77S, 78S, 81S, 82S, 84S, 86S, 87S, 88S, 89S, 90S, 91S, 94S, 95S, 100S, 103S)
27.947	78	Proposed developed meadow, non-grazed, HSG D (1S, 2S, 4S, 11S, 13S, 14S, 16S, 20S, 21S, 23S, 24S, 27S, 29S, 30S, 31S, 33S, 34S, 35S, 36S, 37S, 39S, 40S, 42S, 43S, 44S, 45S, 46S, 47S, 48S, 49S, 50S, 52S, 55S, 56S, 60S, 61S, 62S, 63S, 68S, 72S, 74S, 75S, 76S, 77S, 78S, 82S, 84S, 86S, 87S, 88S, 91S, 92S, 94S, 95S, 96S, 97S, 99S, 100S)
6.697	98	Proposed impervious to be treated, HSG C (8S, 17S, 22S, 51S, 54S, 59S, 65S, 66S, 69S, 73S, 79S, 80S, 83S, 91S, 93S)
8.850	98	Proposed impervious to be treated, HSG D (8S, 12S, 17S, 22S, 25S, 27S, 38S, 41S, 51S, 53S, 54S, 59S, 65S, 73S, 80S, 83S, 93S, 98S, 99S)
2.571	71	Proposed meadow, ski lift, HSG C (6S, 103S)
3.182	78	Proposed meadow, ski lift, HSG D (6S, 103S)

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Area Listing (all nodes) (continued)

Area	a CN	Description
(acres))	(subcatchment-numbers)
40.904	71	Proposed meadow, ski trail, HSG C (6S, 7S, 8S, 9S, 17S, 18S, 21S, 23S, 30S,
		31S, 34S, 45S, 49S, 50S, 57S, 61S, 62S, 67S, 68S, 70S, 71S, 74S, 76S, 77S, 78S,
		79S, 88S, 89S, 90S, 91S, 94S, 95S, 100S, 103S)
65.461	78	Proposed meadow, ski trail, HSG D (3S, 4S, 5S, 6S, 7S, 9S, 12S, 13S, 14S, 16S,
		18S, 23S, 27S, 28S, 29S, 31S, 32S, 33S, 34S, 36S, 39S, 40S, 44S, 48S, 49S, 52S,
		55S, 61S, 62S, 64S, 67S, 74S, 76S, 83S, 103S)
5.687	98	Untreated existing impervious, HSG C (7S, 16S, 17S, 19S, 20S, 91S, 95S)
6.947	98	Untreated existing impervious, HSG D (1S, 2S, 7S, 11S, 14S, 16S, 20S, 24S, 25S,
		27S, 28S, 32S, 33S, 37S, 46S, 47S, 52S, 55S, 63S, 67S, 68S, 77S, 78S, 85S, 86S,
		87S, 92S, 95S, 96S, 97S, 100S, 103S)
9.403	98	Untreated proposed impervious, HSG C (7S, 16S, 19S, 21S, 23S, 30S, 31S, 40S,
		43S, 45S, 50S, 56S, 57S, 58S, 69S, 70S, 71S, 72S, 74S, 75S, 76S, 78S, 79S, 81S,
		82S, 86S, 87S, 88S, 89S, 90S, 91S, 94S, 95S)
9.020	98	Untreated proposed impervious, HSG D (4S, 6S, 9S, 11S, 16S, 21S, 23S, 27S,
		30S, 31S, 34S, 35S, 36S, 40S, 42S, 43S, 44S, 45S, 49S, 50S, 56S, 57S, 60S, 61S,
		62S, 74S, 75S, 76S, 82S, 84S, 87S, 88S, 91S, 99S, 100S, 103S)
625.458	3 76	TOTAL AREA

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Summary for Subcatchment 1S: WS 3

Runoff = 0.14 cfs @ 12.07 hrs, Volume= 0.009 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 1-Year Rainfall=2.00"

Area	(ac) C	N Des	cription					
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A			
0.	0.000 98 Untreated existing impervious, HSG C							
0.	0.037 98 Untreated existing impervious, HSG D							
0.	000	98 Exis	ting imperv	ious to be	treated as offset, HSG D			
0.	000	30 Exis	ting meado	ow, non-gra	azed, HSG A			
0.	000	71 Exis	ting meado	ow, non-gra	azed, HSG C			
0.	000	78 Exis	ting meado	ow, non-gra	azed, HSG D			
				s, Good, H				
				s, Good, H				
0.	032	77 Exis	ting Wood	s, Good, H	SG D			
0.	000	70 Prop	osed Woo	ds, Good,	HSG C			
0.	000	77 Prop	osed Woo	ds, Good,	HSG D			
					e treated, HSG C			
					e treated, HSG D			
					rvious, HSG C			
					rvious, HSG D			
					idow, non-grazed, HSG C			
					idow, non-grazed, HSG D			
					dow to be treated, HSG C			
					dow to be treated, HSG D			
				dow, ski tra				
				dow, ski tra				
				dow, ski lift				
0.	000	78 Prop	osed mea	dow, ski lift	t, HSG D			
			ghted Aver					
	135	78.4	9% Pervio	us Area				
0.	037	21.5	1% Imper	ious Area				
Tc	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
10.8	74	0.3500	0.11	, ,	Sheet Flow,			
					Woods: Dense underbrush n= 0.800 P2= 2.40"			
3.4	115	0.0500	0.56		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
14.2	189	Total						

Summary for Subcatchment 2S: WS 1

Runoff = 0.77 cfs @ 12.59 hrs, Volume= 0.133 af, Depth= 0.45"

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Area	(ac) C	N Desc	cription							
0.	0.000 98 Untreated existing impervious, HSG A									
0.	0.000 98 Untreated existing impervious, HSG C									
0.019 98 Untreated existing impervious, HSG D										
0.000 98 Existing impervious to be treated as offset, HSG D										
					azed, HSG A					
					azed, HSG C					
					azed, HSG D					
				s, Good, H						
				s, Good, H						
			•	s, Good, H						
				ds, Good, I						
				ds, Good, I						
					e treated, HSG C					
					e treated, HSG D					
					rvious, HSG C					
					rvious, HSG D dow, non-grazed, HSG C					
					dow, non-grazed, HSG D					
					dow to be treated, HSG C					
					dow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lift						
				dow, ski lift						
3.	567 7	77 Weid	ghted Aver	age						
	548		7% Pervio							
0.	019	0.53	% Impervi	ous Area						
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.7	37	0.0900	0.06		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
8.0	102	0.0900	2.10		Shallow Concentrated Flow,					
					Short Grass Pasture Kv= 7.0 fps					
36.2	150	0.0700	0.07		Sheet Flow,					
0.0	400		0.75		Woods: Dense underbrush n= 0.800 P2= 2.40"					
3.0	133	0.0900	0.75		Shallow Concentrated Flow,					
0.0	400	0.0000	40.40	450.00	Forest w/Heavy Litter Kv= 2.5 fps					
0.2	138	0.0600	10.43	458.93	Trap/Vee/Rect Channel Flow,					
					Bot.W=20.00' D=2.00' Z= 1.0 '/' Top.W=24.00' n= 0.050					
0.0	505	0.0600	10.43	459.03	Trap/Vee/Rect Channel Flow,					
8.0	505	0.0600	10.43	458.93	Bot.W=20.00' D=2.00' Z= 1.0 '/' Top.W=24.00'					
					n= 0.050					
51.7	1 065	Total			11- 0.000					
31. <i>1</i>	1,000	าบเสเ								

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Summary for Subcatchment 3S: WS 1-1

Runoff = 0.84 cfs @ 12.12 hrs, Volume= 0.068 af, Depth= 0.45"

Area	(ac)	CI	N Desc	cription								
0.	.000	9	8 Untr	eated exis	ting imperv	rious, HSG A						
0.	.000	9		Intreated existing impervious, HSG C								
0	.000	9	8 Untr	Intreated existing impervious, HSG D								
0	.000	9				treated as offset, HSG D						
0	.000	3	0 Exist	ting mead	ow, non-gra	azed, HSG A						
0	.000	7	1 Exis	ting mead	ow, non-gra	azed, HSG C						
0	.000	7	8 Exist	ting mead	ow, non-gra	azed, HSG D						
0.	.000	3	0 Exist	ting Wood	s, Good, H	SG A						
0.	.000	7	0 Exist	ting Wood	s, Good, H	SG C						
0.	.863	7	7 Exis	ting Wood	s, Good, H	SG D						
0.	.000	7	0 Prop	osed Woo	ds, Good,	HSG C						
0.	.472	7	7 Prop	osed Woo	ds, Good,	HSG D						
0.	.000			osed impe	ervious to b	pe treated, HSG C						
	.000	9	8 Prop	osed impe	ervious to b	pe treated, HSG D						
	.000					ervious, HSG C						
0	.000	9				ervious, HSG D						
	.000					adow, non-grazed, HSG C						
	.000					adow, non-grazed, HSG D						
	.000	7		osed deve	eloped mea	adow to be treated, HSG C						
	.000					adow to be treated, HSG D						
	.000				dow, ski tra							
	.479				dow, ski tra							
	.000	7			dow, ski lif							
0	.000	7	8 Prop	osed mea	dow, ski lif	t, HSG D						
1.	.814	7	7 Weig	ghted Aver	age							
1.	.814		100.	00% Pervi	ous Area							
Tc	Leng	-	Slope	Velocity	Capacity	Description						
(min)	(fe	et)	(ft/ft)	(ft/sec)	(cfs)							
9.5	1	00	0.0800	0.18		Sheet Flow,						
						Grass: Dense n= 0.240 P2= 2.40"						
0.9	1	05	0.0800	1.98		Shallow Concentrated Flow,						
						Short Grass Pasture Kv= 7.0 fps						
0.6		60	0.4700	1.71		Shallow Concentrated Flow,						
						Forest w/Heavy Litter Kv= 2.5 fps						
6.3	3	28	0.1200	0.87		Shallow Concentrated Flow,						
						Forest w/Heavy Litter Kv= 2.5 fps						
17.3	5	93	Total									

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Summary for Subcatchment 4S: WS 1-2

Runoff = 1.44 cfs @ 12.05 hrs, Volume= 0.092 af, Depth= 0.48"

Area	(ac)	CN	Desc	ription								
0.	.000	98	Untre	eated exis	ting imperv	rious, HSG A						
0.	.000	98	Untre	Jntreated existing impervious, HSG C								
0	.000	98	Untre	Untreated existing impervious, HSG D								
0.	.000	98										
0.	.000	30	Exist	ing mead	ow, non-gra	azed, HSG A						
	.000		Exist	ing mead	ow, non-gra	azed, HSG C						
	.000		Exist	ing mead	ow, non-gra	azed, HSG D						
	.000			•	s, Good, H							
	.000				s, Good, H							
	.685				s, Good, H							
	.000				ds, Good,							
	.351				ds, Good,							
	.000					e treated, HSG C						
	.000					e treated, HSG D						
	.000					rvious, HSG C						
	.002					rvious, HSG D						
	.000					ndow, non-grazed, HSG C						
	.130					dow, non-grazed, HSG D						
	.000					adow to be treated, HSG C						
	.000					adow to be treated, HSG D						
	.000				dow, ski tra							
	.114				dow, ski tra							
	.000				dow, ski lift							
	.000				dow, ski lif	t, HSG D						
	.282			hted Aver								
	.280			1% Pervio								
0	.002		0.09	% Impervi	ous Area							
Тс	Length	. ei	ope	Velocity	Capacity	Description						
(min)	(feet)		ft/ft)	(ft/sec)	(cfs)	Description						
9.5	100		800	0.18	(013)	Sheet Flow,						
9.5	100	0.0	000	0.10		Grass: Dense n= 0.240 P2= 2.40"						
1.6	194	0.0	800	1.98		Shallow Concentrated Flow,						
1.0	134	0.0	000	1.90		Short Grass Pasture Kv= 7.0 fps						
0.5	53	0.4	900	1.75		Shallow Concentrated Flow,						
0.0	00	0.4	300	1.70		Forest w/Heavy Litter Kv= 2.5 fps						
0.4	327	′ n 1	000	13.40	563.00	Trap/Vee/Rect Channel Flow,						
0.4	021	0.1		10.10	000.00	Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'						
						n= 0.050						
12.0	674	Tot	tal									

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Summary for Subcatchment 5S: WS 1-3

Runoff = 3.48 cfs @ 12.16 hrs, Volume= 0.312 af, Depth= 0.45"

	Area (ac)	CN	Desc	ription			
	0.0	000	98	Untre	eated exis	ting imperv	ious, HSG A	
	0.000 98 Untreated existing impervious, HSG C							
	0.000 98 Untreated existing impervious, HSG D							
	0.0	000	98				treated as offset, HSG D	
	0.0	000	30	Exist	ing meado	ow, non-gra	azed, HSG A	
	0.0	000	71	Exist	ing meado	ow, non-gra	azed, HSG C	
	0.0	000	78	Exist	ing meado	ow, non-gra	azed, HSG D	
	0.0	000	30	Exist	ing Wood	s, Good, H	SG A	
	0.0	000	70	Exist	ing Wood	s, Good, H	SG C	
		319	77			s, Good, H		
		000	70			ds, Good, l		
		938	77			ds, Good, l		
		000	98				e treated, HSG C	
		000	98				e treated, HSG D	
		000	98			•	rvious, HSG C	
		000	98				rvious, HSG D	
		000	71				dow, non-grazed, HSG C	
		000	78				dow, non-grazed, HSG D	
		000	71				dow to be treated, HSG C	
		000	78				dow to be treated, HSG D	
		000	71			dow, ski tra		
		092	78			dow, ski tra		
		000	71			dow, ski lift		
		000	78			dow, ski lift	; HSG D	
		349	77		jhted Aver			
	8.3	349		100.0	00% Pervi	ous Area		
	Tc	Length		Slope	Velocity	Capacity	Description	
(n	nin)	(feet)		(ft/ft)	(ft/sec)	(cfs)		
	7.0	100	0.	1700	0.24		Sheet Flow,	
							Grass: Dense n= 0.240 P2= 2.40"	
	3.4	596	6 0.	1700	2.89		Shallow Concentrated Flow,	
	_						Short Grass Pasture Kv= 7.0 fps	
1	0.1	585	5 0.	1500	0.97		Shallow Concentrated Flow,	
							Forest w/Heavy Litter Kv= 2.5 fps	
2	20.5	1,281	l To	otal				

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Summary for Subcatchment 6S: WS 1-4

Runoff = 6.69 cfs @ 12.32 hrs, Volume= 0.838 af, Depth= 0.41"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
2.284	70	Existing Woods, Good, HSG C
8.316	77	Existing Woods, Good, HSG D
0.588	70	Proposed Woods, Good, HSG C
1.175	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.088	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.085	71	Proposed meadow, ski trail, HSG C
6.341	78	Proposed meadow, ski trail, HSG D
0.360	71	Proposed meadow, ski lift, HSG C
2.079	78	Proposed meadow, ski lift, HSG D
24.316	76	Weighted Average
24.228		99.64% Pervious Area
0.088		0.36% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	10.7	51	0.1700	0.08		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	4.8	294	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.4	760	0.1700	2.89		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	3.0	482	0.1500	2.71		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.5	447	0.1800	2.97		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	4.1	637	0.1400	2.62		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.1	138	0.1900	1.09		Shallow Concentrated Flow,
_						Forest w/Heavy Litter Kv= 2.5 fps
	31 6	2 809	Total			

Summary for Subcatchment 7S: WS 1-5

Runoff = 8.04 cfs @ 12.63 hrs, Volume= 1.613 af, Depth= 0.32"

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_	Area (ac)	CN	Description
	0.000	98	Untreated existing impervious, HSG A
	0.022	98	Untreated existing impervious, HSG C
	0.021	98	Untreated existing impervious, HSG D
	0.000	98	Existing impervious to be treated as offset, HSG D
	0.000	30	Existing meadow, non-grazed, HSG A
	3.752	71	Existing meadow, non-grazed, HSG C
	6.694	78	Existing meadow, non-grazed, HSG D
	0.000	30	Existing Woods, Good, HSG A
	23.036	70	Existing Woods, Good, HSG C
	11.631	77	Existing Woods, Good, HSG D
	2.098	70	Proposed Woods, Good, HSG C
	0.523	77	Proposed Woods, Good, HSG D
	0.000	98	Proposed impervious to be treated, HSG C
	0.000	98	Proposed impervious to be treated, HSG D
	0.008	98	Untreated proposed impervious, HSG C
	0.000	98	Untreated proposed impervious, HSG D
	0.186	71	Proposed developed meadow, non-grazed, HSG C
	0.000	78	Proposed developed meadow, non-grazed, HSG D
	0.000	71	Proposed developed meadow to be treated, HSG C
	0.000	78	Proposed developed meadow to be treated, HSG D
	7.773	71	Proposed meadow, ski trail, HSG C
	4.678	78	Proposed meadow, ski trail, HSG D
	0.000	71	Proposed meadow, ski lift, HSG C
_	0.000	78	Proposed meadow, ski lift, HSG D
	60.422	73	Weighted Average
	60.371		99.92% Pervious Area
	0.051		0.08% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
3.8	237	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.2	276	0.1900	1.09		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.7	148	0.0700	0.66		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
6.9	402	0.1500	0.97		Shallow Concentrated Flow,
4.5	000	0.0500	4 40		Forest w/Heavy Litter Kv= 2.5 fps
4.5	396	0.3500	1.48		Shallow Concentrated Flow,
2.0	070	0.4000	4.50		Forest w/Heavy Litter Kv= 2.5 fps
3.9	373	0.4000	1.58		Shallow Concentrated Flow,
1 1	224	0.2000	4 27		Forest w/Heavy Litter Kv= 2.5 fps
4.1	334	0.3000	1.37		Shallow Concentrated Flow,
4.7	221	0.2200	1 17		Forest w/Heavy Litter Kv= 2.5 fps
4.7	331	0.2200	1.17		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
0.4	341	0.2300	15.69	156.92	Trap/Vee/Rect Channel Flow,
0.4	341	0.2300	15.09	150.92	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.4	306	0.2200	15.35	153.47	Trap/Vee/Rect Channel Flow,
0.4	330	0.2200	10.00	100.47	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.4	367	0.2300	15.69	156.92	Trap/Vee/Rect Channel Flow,
0.1	001	0.2000	10.00	100.02	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.5	394	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.4	361	0.1800	13.88	138.82	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.3	252	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.4	333	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.5	440	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.6	459	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
•	001	0.4700	40.40	40404	n= 0.050
0.4	334	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	0.000	T			n= 0.050
51.0	6,226	Total			

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Summary for Subcatchment 8S: WS 1-6

Runoff = 0.84 cfs @ 11.93 hrs, Volume= 0.036 af, Depth= 0.65"

Area (ac) CN Description						
0.000 98 Untreated existing impervious, HSG A						
0.000 98 Untreated existing impervious, HSG C						
0.000 98 Untreated existing impervious, HSG D						
0.000 98 Existing impervious to be treated as offset, HSG D						
0.000 30 Existing meadow, non-grazed, HSG A						
0.000 71 Existing meadow, non-grazed, HSG C						
0.000 78 Existing meadow, non-grazed, HSG D						
0.000 30 Existing Woods, Good, HSG A						
0.000 70 Existing Woods, Good, HSG C						
0.000 77 Existing Woods, Good, HSG D						
0.000 70 Proposed Woods, Good, HSG C						
0.000 77 Proposed Woods, Good, HSG D						
0.181 98 Proposed impervious to be treated, HSG C						
0.050 98 Proposed impervious to be treated, HSG D						
0.000 98 Untreated proposed impervious, HSG C						
0.000 98 Untreated proposed impervious, HSG D						
0.000 71 Proposed developed meadow, non-grazed, HSG C						
0.000 78 Proposed developed meadow, non-grazed, HSG D						
0.262 71 Proposed developed meadow to be treated, HSG C						
0.111 78 Proposed developed meadow to be treated, HSG D						
0.056 71 Proposed meadow, ski trail, HSG C						
0.000 78 Proposed meadow, ski trail, HSG D						
0.000 71 Proposed meadow, ski lift, HSG C						
0.000 78 Proposed meadow, ski lift, HSG D						
0.660 82 Weighted Average						
0.429 65.00% Pervious Area						
0.231 35.00% Impervious Area						
Tc Length Slope Velocity Capacity Description						
(min) (feet) (ft/ft) (ft/sec) (cfs)						
1.4 100 0.0200 1.19 Sheet Flow ,						
Smooth surfaces n= 0.011 P2= 2.40"						
0.5 80 0.0300 2.60 Shallow Concentrated Flow,						
Grassed Waterway Kv= 15.0 fps						
0.2 107 0.1200 10.21 8.02 Pipe Channel ,						
12.0" Round Area= 0.8 sf Perim= 3.1' r= 0) 25'					
n= 0.020 Corrugated PE, corrugated interio						
2.1 287 Total	<u>. </u>					

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Summary for Subcatchment 9S: WS 1-7

Runoff = 6.43 cfs @ 12.35 hrs, Volume= 0.908 af, Depth= 0.35"

 Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
10.166	70	Existing Woods, Good, HSG C
8.946	77	Existing Woods, Good, HSG D
1.118	70	Proposed Woods, Good, HSG C
1.643	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.068	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.838	71	Proposed meadow, ski trail, HSG C
5.370	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
 0.000	78	Proposed meadow, ski lift, HSG D
31.149	74	Weighted Average
31.081		99.78% Pervious Area
0.068		0.22% Impervious Area

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	Tc	Length	Slope (ft/ft)	•	Capacity	Description
_	(min)	(feet)		(ft/sec)	(cfs)	Shoot Flour
	5.8	100	0.2700	0.29		Sheet Flow, n= 0.240 P2= 2.40"
	1.0	229	0.2700	3.64		Shallow Concentrated Flow,
	1.0	229	0.2700	3.04		Short Grass Pasture Kv= 7.0 fps
	2.5	216	0.3200	1.41		Shallow Concentrated Flow,
	2.5	210	0.3200	1.41		Forest w/Heavy Litter Kv= 2.5 fps
	5.1	483	0.4000	1.58		Shallow Concentrated Flow,
	0.1	400	0.4000	1.00		Forest w/Heavy Litter Kv= 2.5 fps
	3.1	251	0.2900	1.35		Shallow Concentrated Flow,
	• • • • • • • • • • • • • • • • • • • •		0.2000			Forest w/Heavy Litter Kv= 2.5 fps
	1.5	311	0.2300	3.36		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	4.1	863	0.2500	3.50		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.2	956	0.2100	7.19	21.56	Trap/Vee/Rect Channel Flow, ditch
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.069 Riprap, 6-inch
	7.1	413	0.1500	0.97		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	8.0	509	0.1500	10.18	91.58	Trap/Vee/Rect Channel Flow,
						Bot.W=8.00' D=1.00' Z= 1.0 '/' Top.W=10.00'
_						n= 0.050
	33.2	4,331	Total			

Summary for Subcatchment 10S: WS 1A

Runoff = 1.02 cfs @ 12.27 hrs, Volume= 0.115 af, Depth= 0.45"

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Area ((ac) C	N Desc	cription						
0.0	000	8 Untr	Intreated existing impervious, HSG A						
			Intreated existing impervious, HSG C						
			Intreated existing impervious, HSG D						
					treated as offset, HSG D				
					azed, HSG A				
					azed, HSG C				
					azed, HSG D				
			•	s, Good, H					
				s, Good, H					
				s, Good, H					
				ds, Good, I					
				ds, Good, l					
					e treated, HSG C				
0.0			osed impe	ervious to b	e treated, HSG D				
0.0	000	8 Untr	eated prop	osed impe	rvious, HSG C				
0.0	000	8 Untr	eated prop	osed impe	rvious, HSG D				
0.0	000 7	'1 Prop	osed deve	loped mea	dow, non-grazed, HSG C				
0.0	000 7				dow, non-grazed, HSG D				
					dow to be treated, HSG C				
				•	dow to be treated, HSG D				
				dow, ski tra					
				dow, ski tra					
				dow, ski lift					
				dow, ski lift dow, ski lift					
3.0	076 7	77 Weid	hted Aver	age					
	076		00% Pervi						
0	0.0	100.	00701 0111	0407.104					
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Description				
				(013)	Oh a of Elevi				
10.9	31	0.0600	0.05		Sheet Flow,				
- 0	404		0.04		Woods: Dense underbrush n= 0.800 P2= 2.40"				
5.2	191	0.0600	0.61		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
1.1	59	0.1400	0.94		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
4.9	193	0.0700	0.66		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
4.1	161	0.0700	0.66		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
2.2	107	0.1100	0.83		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
0.1	79	0.0500	9.26	314.98	Trap/Vee/Rect Channel Flow,				
0.1	. 0	0.000	3.23	0.1.00	Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'				
					n= 0.050				
20 5	004	Total			11 0.000				
28.5	821	าบเสเ							

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Summary for Subcatchment 11S: WS 1B

Runoff = 3.84 cfs @ 12.11 hrs, Volume= 0.286 af, Depth= 0.52"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.425	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.072	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
5.568	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.084	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.429	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.578	79	Weighted Average
6.069		92.26% Pervious Area
0.509		7.74% Impervious Area

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To (min)	-	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
0.7	336	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.7	339	0.0900	7.92	23.75	n= 0.041 Riprap, 2-inch Trap/Vee/Rect Channel Flow,
0.7	339	0.0900	1.92	23.73	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
0.8	336	0.0700	6.98	20.95	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
0.7	278	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.7	283	0.0600	6.46	19.39	n= 0.041 Trap/Vee/Rect Channel Flow,
0.7	203	0.0000	0.40	19.39	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
0.3	118	0.0800	7.46	22.39	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
0.4	164	0.0700	6.98	20.95	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.1	83	0.1400	9.87	20.62	n= 0.041
0.1	03	0.1400	9.07	29.62	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
1.3	505	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
_					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
16.6	2,480	Total			

Summary for Subcatchment 12S: WS 1B1 - Lot G

Runoff = 3.48 cfs @ 11.93 hrs, Volume= 0.148 af, Depth= 0.74"

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Area	(ac) (CN Des	cription		
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A
0.	000				rious, HSG C
0.	000	98 Untr	eated exis	ting imperv	rious, HSG D
0.	000				treated as offset, HSG D
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D
0.	000	30 Exis	ting Wood	s, Good, H	SG A
0.	000	70 Exis	ting Wood	s, Good, H	SG C
0.	145	77 Exis	ting Wood	s, Good, H	SG D
0.	000	70 Prop	osed Woo	ds, Good,	HSG C
0.	007	77 Prop	osed Woo	ds, Good,	HSG D
0.	000	98 Prop	osed impe	ervious to b	e treated, HSG C
0.					e treated, HSG D
0.					rvious, HSG C
0.	000	98 Untr	eated prop	osed impe	rvious, HSG D
0.					ndow, non-grazed, HSG C
					ndow, non-grazed, HSG D
					ndow to be treated, HSG C
					ndow to be treated, HSG D
				dow, ski tra	
				dow, ski tra	
				dow, ski lif	
0.	000	78 Prop	osed mea	dow, ski lif	t, HSG D
2.	385		ghted Aver		
1.	620	67.9	2% Pervio	us Area	
0.	765	32.0	8% Imperv	∕ious Area	
Тс	Length		Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
1.4	100	0.0200	1.19		Sheet Flow,
					Smooth surfaces n= 0.011 P2= 2.40"
0.5	81	0.0200	2.87		Shallow Concentrated Flow,
					Paved Kv= 20.3 fps
0.3	304	0.1000	15.55	46.66	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022
2.2	485	Total			

Summary for Subcatchment 13S: WS 1C

Runoff = 1.12 cfs @ 12.19 hrs, Volume= 0.109 af, Depth= 0.45"

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Area ((ac) C	N Des	cription						
0.0	000	98 Untr	eated exis	ting imperv	ious, HSG A				
0.0	0.000 98 Untreated existing impervious, HSG C								
0.000 98 Untreated existing impervious, HSG D									
0.0	0.000 98 Existing impervious to be treated as offset, HSG D								
	0.000 30 Existing meadow, non-grazed, HSG A								
					azed, HSG C				
					azed, HSG D				
			•	s, Good, H					
				s, Good, H					
				s, Good, H					
				ds, Good, I					
				ds, Good, I					
					e treated, HSG C				
					e treated, HSG D rvious, HSG C				
					rvious, HSG D				
					dow, non-grazed, HSG C				
					dow, non-grazed, HSG D				
				•	dow to be treated, HSG C				
					dow to be treated, HSG D				
				dow, ski tra					
				dow, ski tra					
0.0	000	71 Prop	osed mea	dow, ski lift	; HSG C				
0.0	000	78 Prop	osed mea	dow, ski lift	;, HSG D				
			ghted Aver						
2.9	908	100.	00% Pervi	ous Area					
т.	ما المراجعة	Clana	Valaaitu	Canacitu	Description				
Tc (min)	Length	Slope (ft/ft)	Velocity	Capacity	Description				
(min)	(feet)		(ft/sec)	(cfs)	Shoot Flow				
10.6	100	0.0600	0.16		Sheet Flow, Grass: Dense n= 0.240 P2= 2.40"				
1.2	122	0.0600	1.71		Shallow Concentrated Flow,				
1.2	122	0.0000	1.7 1		Short Grass Pasture Kv= 7.0 fps				
0.4	46	0.4800	1.73		Shallow Concentrated Flow,				
0.4	40	0.4000	1.70		Forest w/Heavy Litter Kv= 2.5 fps				
4.9	221	0.0900	0.75		Shallow Concentrated Flow.				
		0.0000	0.70		Forest w/Heavy Litter Kv= 2.5 fps				
3.2	154	0.1000	0.79		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
0.6	283	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.041				
2.0	88	0.0900	0.75		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
22.9	1,014	Total							

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Summary for Subcatchment 14S: WS 1C1

Runoff = 10.92 cfs @ 12.13 hrs, Volume= 0.841 af, Depth= 0.65"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
3.283	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
3.459	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
6.788	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.702	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.321	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.998	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
15.551	82	Weighted Average
12.268		78.89% Pervious Area
3.283		21.11% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	10.7	48	0.1500	0.07		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	0.5	172	0.1500	6.24		Shallow Concentrated Flow,
	4 7	404	0.0500	4 57		Unpaved Kv= 16.1 fps
	1.7	164	0.0500	1.57		Shallow Concentrated Flow,
	0.3	77	0.3100	3.90		Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,
	0.5	11	0.5100	3.90		Short Grass Pasture Kv= 7.0 fps
	0.4	157	0.0600	6.46	19.39	
	0.4	107	0.0000	0.40	10.00	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.9	350	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.5	219	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.5	251	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
	0.8	316	0.0600	6.46	19.39	n= 0.041 Trap/Vee/Rect Channel Flow,
	0.6	310	0.0000	0.40	19.39	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.1	73	0.1900	11.50	34.51	
	• • •	. •			0	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.7	300	0.0700	6.98	20.95	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	8.0	179	0.0200	3.73	11.20	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
	4.0	0.40	0.0500	5 00	47.70	n= 0.041
	1.0	342	0.0500	5.90	17.70	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_	10.0	0.640	Total			n= 0.041
	18.9	2,648	Total			

Summary for Subcatchment 15S: WS 1C2- Ex lot E

Runoff = 10.19 cfs @ 11.96 hrs, Volume= 0.476 af, Depth= 0.97"

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Area	(ac) C	N Desc	cription						
	. ,		· · · · · · · · · · · · · · · · · · ·						
		98 Untreated existing impervious, HSG C							
					rious, HSG D				
					treated as offset, HSG D				
					azed, HSG A				
					azed, HSG C				
					azed, HSG D				
			•	s, Good, H					
				s, Good, H					
			•	s, Good, H					
				ds, Good,					
				ds, Good,					
					e treated, HSG C				
			•		e treated, HSG D				
					rvious, HSG C				
					rvious, HSG D				
					ndow, non-grazed, HSG C				
0.	000	78 Prop	osed deve	eloped mea	ndow, non-grazed, HSG D				
0.	000	71 Prop	osed deve	eloped mea	ndow to be treated, HSG C				
0.	000	78 Prop	osed deve	eloped mea	ndow to be treated, HSG D				
0.	000 7	71 Prop	osed mea	dow, ski tra	ail, HSG C				
0.	000 7	78 Prop	osed mea	dow, ski tra	ail, HSG D				
0.	000 7	71 Prop	osed mea	dow, ski lift	t, HSG C				
0.	000	78 Prop	osed mea	dow, ski lift	t, HSG D				
5.	919 8	38 Wei	ghted Aver	age					
	783		2% Pervio						
	136		8% Imperv						
			•						
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	r				
1.0	100	0.0500	1.72	(===)	Sheet Flow,				
1.0	100	0.0000	1.72		Smooth surfaces n= 0.011 P2= 2.40"				
0.4	90	0.0500	3.60		Shallow Concentrated Flow,				
0.4	90	0.0300	3.00		· · · · · · · · · · · · · · · · · · ·				
1.0	111	0.2000	1 56		Unpaved Kv= 16.1 fps				
1.2	114	0.3900	1.56		Shallow Concentrated Flow,				
4.0	250	0.0000	4 57	40.74	Forest w/Heavy Litter Kv= 2.5 fps				
1.3	356	0.0300	4.57	13.71	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.041				
1.2	195	0.0300	2.79		Shallow Concentrated Flow,				
	_				Unpaved Kv= 16.1 fps				
0.1	31	0.3900	10.05		Shallow Concentrated Flow,				
					Unpaved Kv= 16.1 fps				
5.2	886	Total							

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Summary for Subcatchment 16S: WS 1D- Ex Timbers

Runoff = 11.55 cfs @ 12.62 hrs, Volume= 2.111 af, Depth= 0.41"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
4.120	98	Untreated existing impervious, HSG C
1.443	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
13.418	71	Existing meadow, non-grazed, HSG C
9.815	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
16.186	70	Existing Woods, Good, HSG C
12.572	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.473	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.008	98	Untreated proposed impervious, HSG C
0.044	98	Untreated proposed impervious, HSG D
0.454	71	Proposed developed meadow, non-grazed, HSG C
1.984	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.717	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
61.234	76	Weighted Average
55.619		90.83% Pervious Area
5.615		9.17% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	60	0.2300	0.09	, ,	Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	130	0.2300	1.20		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.6	182	0.2200	1.17		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.6	394	0.2200	1.17		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.4	298	0.2000	1.12		Shallow Concentrated Flow,
2.0	400	0.4000	0.70		Forest w/Heavy Litter Kv= 2.5 fps
3.9	183	0.1000	0.79		Shallow Concentrated Flow,
3.4	230	0.2000	1.12		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
3.4	230	0.2000	1.12		Forest w/Heavy Litter Kv= 2.5 fps
0.5	254	0.1000	8.17	114.37	Trap/Vee/Rect Channel Flow,
0.0	204	0.1000	0.17	114.07	Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.069 Riprap, 6-inch
0.3	159	0.1300	9.31	130.40	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.069 Riprap, 6-inch
0.3	160	0.1100	8.57	119.95	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.069 Riprap, 6-inch
2.2	165	0.2500	1.25		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.2	245	0.2600	1.27		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.4	192	0.1000	8.17	114.37	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
0.4	004	0.4200	20.24	400.07	n= 0.069 Riprap, 6-inch
0.1	231	0.1300	29.21	408.97	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.022
4.5	280	0.1700	1.03		Shallow Concentrated Flow,
7.5	200	0.1700	1.00		Forest w/Heavy Litter Kv= 2.5 fps
1.6	134	0.3000	1.37		Shallow Concentrated Flow,
1.0		0.0000	1.01		Forest w/Heavy Litter Kv= 2.5 fps
5.6	334	0.1600	1.00		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.2	168	0.0800	16.81	235.27	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.030 Stream, clean & straight
1.1	398	0.0100	5.94	83.18	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.030 Stream, clean & straight
0.5	334	0.0400	11.88	166.36	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
0.0	470	0.4000	45.54	047.55	n= 0.030 Stream, clean & straight
0.2	1/6	0.1900	15.54	217.55	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'

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n= 0.050 Mountain streams w/large boulders

53.2 4,707 Total

Summary for Subcatchment 17S: WS 1D1

Runoff = 7.66 cfs @ 11.94 hrs, Volume= 0.332 af, Depth= 0.52"

_	Area (ac)	CN	Description
	0.000	98	Untreated existing impervious, HSG A
	0.085	98	Untreated existing impervious, HSG C
	0.000	98	Untreated existing impervious, HSG D
	0.000	98	Existing impervious to be treated as offset, HSG D
	0.000	30	Existing meadow, non-grazed, HSG A
	0.048	71	Existing meadow, non-grazed, HSG C
	0.115	78	Existing meadow, non-grazed, HSG D
	0.000	30	Existing Woods, Good, HSG A
	0.722	70	Existing Woods, Good, HSG C
	0.593	77	Existing Woods, Good, HSG D
	0.001	70	Proposed Woods, Good, HSG C
	0.067	77	Proposed Woods, Good, HSG D
	1.711	98	Proposed impervious to be treated, HSG C
	0.017	98	Proposed impervious to be treated, HSG D
	0.000	98	Untreated proposed impervious, HSG C
	0.000	98	Untreated proposed impervious, HSG D
	0.000	71	Proposed developed meadow, non-grazed, HSG C
	0.000	78	Proposed developed meadow, non-grazed, HSG D
	3.438	71	Proposed developed meadow to be treated, HSG C
	0.822	78	Proposed developed meadow to be treated, HSG D
	0.003	71	Proposed meadow, ski trail, HSG C
	0.000	78	Proposed meadow, ski trail, HSG D
	0.000	71	Proposed meadow, ski lift, HSG C
	0.000	78	Proposed meadow, ski lift, HSG D
	7.622	79	Weighted Average
	5.809		76.21% Pervious Area
	1.813		23.79% Impervious Area

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To (min)		Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1100	2.36		Sheet Flow,
					Smooth surfaces n= 0.011 P2= 2.40"
0.0	19	0.1100	6.73		Shallow Concentrated Flow,
					Paved Kv= 20.3 fps
0.3	69	0.0600	3.67		Shallow Concentrated Flow,
					Grassed Waterway Kv= 15.0 fps
0.5	427	0.1200	13.38	23.65	• ,
					18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38'
					n= 0.020 Corrugated PE, corrugated interior
0.2	316	0.1900	31.50	125.99	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
					n= 0.016 Asphalt, rough
0.1	118	0.2400	22.93	72.04	Pipe Channel,
					24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'
					n= 0.020 Corrugated PE, corrugated interior
0.6	372	0.1500	10.92	43.69	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
					n= 0.041 Riprap, 2-inch
2.4	1,421	Total			

Summary for Subcatchment 18S: WS 1D2

Runoff = 1.37 cfs @ 12.09 hrs, Volume= 0.117 af, Depth= 0.29"

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Area	(ac) (CN De	scription						
0.	000	98 Ur	Untreated existing impervious, HSG A						
0.	000	98 Ur	Untreated existing impervious, HSG C						
0.	000	98 Ur	treated exis	ting imperv	rious, HSG D				
0.	000	98 Ex	isting imper	vious to be	treated as offset, HSG D				
0.	000	30 Ex	isting mead	ow, non-gra	azed, HSG A				
0.	000	71 Ex	isting mead	ow, non-gra	azed, HSG C				
0.			isting mead	ow, non-gra	azed, HSG D				
			isting Wood						
			isting Wood						
			isting Wood						
			oposed Woo						
			oposed Woo						
					e treated, HSG C				
					e treated, HSG D				
					rvious, HSG C				
					rvious, HSG D				
			•		adow, non-grazed, HSG C				
			•		adow, non-grazed, HSG D				
_			•		adow to be treated, HSG C				
			•		adow to be treated, HSG D				
			oposed mea	•	·				
			pposed mea						
			pposed mea						
			posed mea	•	t, HSG D				
			eighted Ave						
4.	785	10	0.00% Perv	ous Area					
Тс	Length	Slop	e Velocity	Capacity	Description				
(min)	(feet)		•	(cfs)	Boodipaon				
7.2	100	0.160	0.23	, ,	Sheet Flow,				
					Grass: Dense n= 0.240 P2= 2.40"				
6.2	1,123	0.189	3.04		Shallow Concentrated Flow,				
					Short Grass Pasture Kv= 7.0 fps				
13.4	1,223	Total							

Summary for Subcatchment 19S: WS 1D3

Runoff = 1.38 cfs @ 12.01 hrs, Volume= 0.079 af, Depth= 0.35"

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Area	(ac) (CN Des	cription						
		98 Unti	Intreated existing impervious, HSG A						
	0.374 98 Untreated existing impervious, HSG C								
0.000 98 Untreated existing impervious, HSG D									
0.000 98 Existing impervious to be treated as offset, HSG D									
0.	.000	30 Exis	sting mead	ow, non-gra	azed, HSG A				
0.	.349	71 Exis	sting mead	ow, non-gra	azed, HSG C				
0.	.000	78 Exis	sting mead	ow, non-gra	azed, HSG D				
0.	.000	30 Exis	sting Wood	s, Good, H	SG A				
0.	.899	70 Exis	sting Wood	s, Good, H	SG C				
0.	.000	77 Exis	sting Wood	s, Good, H	SG D				
0.	.000	70 Pro	posed Woo	ods, Good,	HSG C				
		77 Pro _l	posed Woo	ods, Good,	HSG D				
					e treated, HSG C				
					e treated, HSG D				
					rvious, HSG C				
					rvious, HSG D				
					dow, non-grazed, HSG C				
					dow, non-grazed, HSG D				
					dow to be treated, HSG C				
				•	idow to be treated, HSG D				
				idow, ski tra					
				idow, ski tra					
				ıdow, ski lift ıdow, ski lift					
					I, 1130 D				
	.717 .340		ghted Aver I2% Pervio						
	.340		38% Imper						
U.	.311	13.0	oo 70 iiiipei	vious Area					
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	•	(ft/sec)	(cfs)	Boompaon				
0.9	93	, ,	1.69	(0.0)	Sheet Flow,				
0.5	30	0.0000	1.03		Smooth surfaces n= 0.011 P2= 2.40"				
4.5	259	0.1500	0.97		Shallow Concentrated Flow,				
7.0	200	0.1000	0.07		Forest w/Heavy Litter Kv= 2.5 fps				
0.7	220	0.1100	5.20	15.60	Trap/Vee/Rect Channel Flow, roadway ditch				
0		0.1.00	0.20		Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.069 Riprap, 6-inch				
0.8	70	0.3100	1.39		Shallow Concentrated Flow,				
	, •				Forest w/Heavy Litter Kv= 2.5 fps				
0.3	89	0.1100	5.20	15.60	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.069 Riprap, 6-inch				
7.2	731	Total							

Summary for Subcatchment 20S: WS 1D4

Runoff = 0.51 cfs @ 12.06 hrs, Volume= 0.036 af, Depth= 0.38"

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Area	(ac) (CN Des	cription						
0.	000	98 Untreated existing impervious, HSG A							
0.	0.063 98 Untreated existing impervious, HSG C								
0.	037	98 Untreated existing impervious, HSG D							
0.	000								
0.	.000	30 Exis	sting mead	ow, non-gra	azed, HSG A				
0.	295	71 Exis	sting mead	ow, non-gra	azed, HSG C				
0.	074	78 Exis	sting mead	ow, non-gra	azed, HSG D				
	.000	30 Exis	sting Wood	s, Good, H	SG A				
0.	307	70 Exis	sting Wood	s, Good, H	SG C				
	158	77 Exis	sting Wood	s, Good, H	SG D				
	000	70 Pro	posed Woo	ds, Good,	HSG C				
0.	000	77 Pro	posed Woo	ds, Good,	HSG D				
	000				e treated, HSG C				
	000				e treated, HSG D				
	000				rvious, HSG C				
	.000				rvious, HSG D				
	144				ndow, non-grazed, HSG C				
	041				dow, non-grazed, HSG D				
	000				adow to be treated, HSG C				
	000				adow to be treated, HSG D				
	000			dow, ski tra					
	000			dow, ski tra					
	000			dow, ski lift					
	000			dow, ski lift	t, HSG D				
			ghted Aver						
	019		06% Pervio						
0.	100	8.94	1% Impervi	ous Area					
-		01		.	B				
Tc	Length		Velocity	Capacity	Description				
<u>(min)</u>	(feet)		(ft/sec)	(cfs)					
10.8	59	0.2200	0.09		Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
0.8	157	0.2200	3.28		Shallow Concentrated Flow,				
0.0	470	0.4000	4.00	44.00	Short Grass Pasture Kv= 7.0 fps				
0.6	179	0.1000	4.96	14.88	Trap/Vee/Rect Channel Flow, ditch				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.069 Riprap, 6-inch				
12.2	395	Total							

Summary for Subcatchment 21S: Untreated from Timbers

Runoff 4.98 cfs @ 11.96 hrs, Volume= 0.228 af, Depth= 0.60"

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Area	(ac)	CN Des	scription							
0.	000	98 Unt	reated exis	ting imperv	rious, HSG A					
0.	000		ntreated existing impervious, HSG C							
0.	000	98 Unt	ntreated existing impervious, HSG D							
0.	000	98 Exis	sting imper	vious to be	treated as offset, HSG D					
0.	000	30 Exi	sting mead	ow, non-gra	azed, HSG A					
0.	000	71 Exis	sting mead	ow, non-gra	azed, HSG C					
0.	000	78 Exis	sting mead	ow, non-gra	azed, HSG D					
0.	000	30 Exis	sting Wood	s, Good, H	SG A					
0.	000	70 Exis	sting Wood	s, Good, H	SG C					
0.	000	77 Exis	sting Wood	s, Good, H	SG D					
0.	000	70 Pro	posed Woo	ods, Good,	HSG C					
0.	000	77 Pro	posed Woo	ods, Good,	HSG D					
0.	000	98 Pro	posed impe	ervious to b	e treated, HSG C					
	000				e treated, HSG D					
	234				rvious, HSG C					
	894				rvious, HSG D					
	026				ndow, non-grazed, HSG C					
	185				ndow, non-grazed, HSG D					
	000				ndow to be treated, HSG C					
	000				ndow to be treated, HSG D					
	186		posed mea							
	000		posed mea							
	000		posed mea							
0.	000	78 Pro	posed mea	idow, ski lif	t, HSG D					
	525	81 We	ighted Aver	rage						
	397		07% Pervio							
1.	128	24.	93% Imper	vious Area						
Tc	Length			Capacity	Description					
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)						
0.7	92	0.1000	2.23		Sheet Flow,					
					Smooth surfaces n= 0.011 P2= 2.40"					
0.3	105	0.1700	6.18		Shallow Concentrated Flow,					
					Grassed Waterway Kv= 15.0 fps					
3.4	1,120	0.1100	5.56	22.23	Trap/Vee/Rect Channel Flow, ditch					
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'					
					n= 0.069 Riprap, 6-inch					
4.4	1,317	Total								

Summary for Subcatchment 22S: WS 1D6

Runoff = 2.57 cfs @ 11.97 hrs, Volume= 0.121 af, Depth= 0.80"

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Area	(ac)	CN	Desc	ription							
0.	000	98	Untre	eated exis	ting imperv	ious, HSG A					
0.	000	98	Untreated existing impervious, HSG C								
0.	000	98	Untre	Intreated existing impervious, HSG D							
0.	000	98	Exist	ing imper	vious to be	treated as offset, HSG D					
0.	000	30	Exist	ing meado	ow, non-gra	azed, HSG A					
0.	000	71	Exist	ing meado	ow, non-gra	azed, HSG C					
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D					
0.	000	30	Exist	ing Woods	s, Good, H	SG A					
0.	000	70	Exist	ing Woods	s, Good, H	SG C					
0.	000	77	Exist	ing Woods	s, Good, H	SG D					
0.	000	70	Prop	osed Woo	ds, Good, I	HSG C					
0.	000	77	Prop	osed Woo	ds, Good,	HSG D					
0.	103	98	Prop	osed impe	ervious to b	e treated, HSG C					
0.	537	98	Prop	osed impe	ervious to b	e treated, HSG D					
0.	000	98	Untre	eated prop	osed impe	rvious, HSG C					
0.	000	98	Untre	eated prop	osed impe	rvious, HSG D					
0.	000	71	Prop	osed deve	eloped mea	dow, non-grazed, HSG C					
	000	78				dow, non-grazed, HSG D					
	127	71				dow to be treated, HSG C					
	062	78				dow to be treated, HSG D					
	000	71			dow, ski tra						
	000	78			dow, ski tra						
	000	71			dow, ski lift						
0.	000	78	Prop	<u>osed mea</u>	dow, ski lift	; HSG D					
1.	829	85	Weig	hted Aver	age						
1.	189		65.0	1% Pervio	us Area						
0.	640		34.9	9% Imperv	/ious Area						
Tc	Length		Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
4.2	66	3 0.2	2700	0.26		Sheet Flow,					
						Grass: Dense n= 0.240 P2= 2.40"					
0.7	89	9.0	0200	2.12		Shallow Concentrated Flow,					
						Grassed Waterway Kv= 15.0 fps					
0.5	310	0.0	0600	11.11	8.73	Pipe Channel,					
						12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25'					
						n= 0.013 Corrugated PE, smooth interior					
5.4	46	5 To	otal								

Summary for Subcatchment 23S: WS 1D7

Runoff = 2.05 cfs @ 12.48 hrs, Volume= 0.344 af, Depth= 0.35"

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_	Area (ac)	CN	Description
	0.000	98	Untreated existing impervious, HSG A
	0.000	98	Untreated existing impervious, HSG C
	0.000	98	Untreated existing impervious, HSG D
	0.000	98	Existing impervious to be treated as offset, HSG D
	0.000	30	Existing meadow, non-grazed, HSG A
	2.084	71	Existing meadow, non-grazed, HSG C
	3.608	78	Existing meadow, non-grazed, HSG D
	0.000	30	Existing Woods, Good, HSG A
	3.198	70	Existing Woods, Good, HSG C
	1.644	77	Existing Woods, Good, HSG D
	0.169	70	Proposed Woods, Good, HSG C
	0.253	77	Proposed Woods, Good, HSG D
	0.000	98	Proposed impervious to be treated, HSG C
	0.000	98	Proposed impervious to be treated, HSG D
	0.008	98	Untreated proposed impervious, HSG C
	0.036	98	Untreated proposed impervious, HSG D
	0.091	71	Proposed developed meadow, non-grazed, HSG C
	0.164	78	Proposed developed meadow, non-grazed, HSG D
	0.000	71	Proposed developed meadow to be treated, HSG C
	0.000	78	Proposed developed meadow to be treated, HSG D
	0.244	71	Proposed meadow, ski trail, HSG C
	0.288	78	Proposed meadow, ski trail, HSG D
	0.000	71	Proposed meadow, ski lift, HSG C
	0.000	78	Proposed meadow, ski lift, HSG D
	11.787	74	Weighted Average
	11.743		99.63% Pervious Area
	0.044		0.37% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
_	7.2	100	0.1600	0.23	(013)	Sheet Flow,
	1.2	100	0.1000	0.20		Grass: Dense n= 0.240 P2= 2.40"
	0.5	89	0.1600	2.80		Shallow Concentrated Flow,
	0.0	00	0000	2.00		Short Grass Pasture Kv= 7.0 fps
	5.4	228	0.0800	0.71		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.0	185	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.4	217	0.1800	1.06		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.0	273	0.2100	1.15		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.3	293	0.2100	1.15		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.8	264	0.2100	1.15		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.3	251	0.2500	1.25		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.5	300	0.2000	1.12		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	2.6	194	0.2500	1.25		Shallow Concentrated Flow,
		400		40.45	00.45	Forest w/Heavy Litter Kv= 2.5 fps
	0.2	138	0.2200	10.15	30.45	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_	10.5					n= 0.050
	42.2	2,532	Total			

Summary for Subcatchment 24S: WS 2

Runoff = 0.55 cfs @ 12.18 hrs, Volume= 0.051 af, Depth= 0.48"

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Area	(ac) (N Des	cription							
0.	0.000 98 Untreated existing impervious, HSG A									
			Intreated existing impervious, HSG C							
0.	0.070 98 Untreated existing impervious, HSG D									
	0.000 98 Existing impervious to be treated as offset, HSG D									
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A					
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C					
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
0.	000	30 Exis	ting Wood	s, Good, H	SG A					
0.	000	70 Exis	ting Wood	s, Good, H	SG C					
1.	145	77 Exis	ting Wood	s, Good, H	SG D					
0.	000	70 Pro	osed Woo	ds, Good,	HSG C					
0.	000	77 Pro	osed Woo	ds, Good,	HSG D					
0.	.000	98 Proj	osed impe	ervious to b	e treated, HSG C					
0.	.000	98 Proj	osed impe	ervious to b	pe treated, HSG D					
					rvious, HSG C					
					rvious, HSG D					
					adow, non-grazed, HSG C					
					adow, non-grazed, HSG D					
					adow to be treated, HSG C					
					adow to be treated, HSG D					
				idow, ski tra						
				idow, ski tra						
				idow, ski lif						
0.			osed mea	idow, ski lif	t, HSG D					
			ghted Avei							
	205		1% Pervio							
0.	070	5.49)% Impervi	ous Area						
_				_						
Tc	Length		Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.7	35	0.0800	0.05		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
5.7	242	0.0800	0.71		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
4.1	176	0.0800	0.71		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
2.0	129	0.0500	1.10	3.30						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.220					
22.5	582	Total								

Summary for Subcatchment 25S: WS 2A

Runoff = 3.67 cfs @ 11.94 hrs, Volume= 0.157 af, Depth= 0.91"

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Area ((ac) (CN D	escription							
0.0	000	98 U	Intreated existing impervious, HSG A							
0.0	000	98 U	Jntreated existing impervious, HSG C							
0.0	010	98 U	Intreated existing impervious, HSG D							
0.0	000	98 E	kisting imper	vious to be	treated as offset, HSG D					
	000				azed, HSG A					
	000				azed, HSG C					
	000				azed, HSG D					
	000		kisting Wood							
	000		kisting Wood							
	002		kisting Wood							
	000		oposed Woo							
	000		oposed Woo	, ,						
	000				e treated, HSG C					
	910				e treated, HSG D					
	000				rvious, HSG C					
	000				rvious, HSG D					
	000				dow, non-grazed, HSG C					
	000				dow, non-grazed, HSG D					
	000		•		adow to be treated, HSG C					
	162				adow to be treated, HSG D					
	000		oposed mea							
	000		oposed mea							
	000		oposed mea	•						
	000		oposed mea		t, HSG D					
	084		eighted Ave							
	164		5.85% Pervio							
0.9	920	44	I.15% Imper	vious Area						
Тс	Length	Slop	e Velocity	Capacity	Description					
(min)	(feet)			(cfs)	'					
1.2	100	0.030	0 1.40		Sheet Flow,					
					Smooth surfaces n= 0.011 P2= 2.40"					
1.6	457	0.090	0 4.70	14.11	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.069 Riprap, 6-inch					
2.8	557	Total	<u> </u>							

Summary for Subcatchment 27S: WS 3A

Runoff = 0.80 cfs @ 12.27 hrs, Volume= 0.086 af, Depth= 0.52"

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Area	(ac) C	N Des	cription							
0.	000	98 Untr	Untreated existing impervious, HSG A							
			Intreated existing impervious, HSG C							
			Jntreated existing impervious, HSG D							
			Existing impervious to be treated as offset, HSG D							
					azed, HSG A					
					azed, HSG C					
					azed, HSG D					
			•	s, Good, H s, Good, H						
			0	s, Good, H						
				ds, Good, I						
				ds, Good, I						
					e treated, HSG C					
			•		e treated, HSG D					
0.	000	98 Untr	eated prop	osed impe	rvious, HSG C					
					rvious, HSG D					
					dow, non-grazed, HSG C					
					dow, non-grazed, HSG D					
					dow to be treated, HSG C					
					dow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra dow, ski lift						
				dow, ski lift dow, ski lift						
			ghted Aver		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	876	,	1% Pervio							
	109		% Impervi							
			•							
	Length	Slope	Velocity	Capacity	Description					
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.8	53	0.1800	0.08		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
2.1	136	0.1800	1.06		Shallow Concentrated Flow,					
6.6	044	0.0000	0.64		Forest w/Heavy Litter Kv= 2.5 fps					
6.6	241	0.0600	0.61		Shallow Concentrated Flow,					
0.2	18	0.4400	1.66		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,					
0.2	10	0.4400	1.00		Forest w/Heavy Litter Kv= 2.5 fps					
3.7	159	0.0800	0.71		Shallow Concentrated Flow,					
0.1	100	0.0000	0.7 1		Forest w/Heavy Litter Kv= 2.5 fps					
2.7	160	0.1600	1.00		Shallow Concentrated Flow,					
		21100			Forest w/Heavy Litter Kv= 2.5 fps					
3.4	161	0.1000	0.79		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
29.5	928	Total								

13.2

905 Total

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Summary for Subcatchment 28S: WS 4

Runoff = 2.36 cfs @ 12.07 hrs, Volume= 0.163 af, Depth= 0.45"

Area	(ac)	CN Des	cription							
0	.000	98 Untr	eated exis	ting imperv	ious, HSG A					
0	.000	98 Untr	Jntreated existing impervious, HSG C							
0.	.009	98 Untr	Jntreated existing impervious, HSG D							
0.	.000		ting imper	vious to be	treated as offset, HSG D					
0.	.000		ting mead	ow, non-gra	azed, HSG A					
	.000				azed, HSG C					
	.000				azed, HSG D					
	.000			s, Good, H						
	.000			s, Good, H						
	.993			s, Good, H						
	.000			ds, Good, l						
	.257			ds, Good, l						
	.000				e treated, HSG C					
	.000				e treated, HSG D					
	.000				rvious, HSG C					
	.000				rvious, HSG D					
	.000				dow, non-grazed, HSG C					
	.000				dow, non-grazed, HSG D					
	.000				dow to be treated, HSG C					
	.000				dow to be treated, HSG D					
	.000			dow, ski tra						
	.104			dow, ski tra						
	.000			dow, ski lift						
_	.000			dow, ski lift	., NSG D					
	.363		ghted Aver							
	.354		9% Pervio							
U.	.009	0.21	% Impervi	ous Area						
т.	المسميما	Clana	\/alaaits/	Composity	Decembring					
Tc	Length		Velocity	Capacity	Description					
(min)	(feet		(ft/sec)	(cfs)						
9.0	100	0.0900	0.18		Sheet Flow,					
0.4	000		0.40		Grass: Dense n= 0.240 P2= 2.40"					
2.1	269	0.0900	2.10		Shallow Concentrated Flow,					
4.0	400	0.4400	0.04		Short Grass Pasture Kv= 7.0 fps					
1.8	100	0.1400	0.94		Shallow Concentrated Flow,					
0.0	400	0.4400	04 47	0.744.07	Forest w/Heavy Litter Kv= 2.5 fps					
0.3	436	0.1100	24.47	2,741.07	Trap/Vee/Rect Channel Flow,					
					Bot.W=6.00' D=8.00' Z= 1.0 '/' Top.W=22.00'					
40.0	007	T.4.1			n= 0.050 Mountain streams w/large boulders					

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Summary for Subcatchment 29S: WS 4A

Runoff = 10.56 cfs @ 12.06 hrs, Volume= 0.713 af, Depth= 0.41"

Area	(ac)	CN D	escription						
0.	000	98 U	ntreated exi	sting imperv	vious, HSG A				
0.	000	98 U	Untreated existing impervious, HSG C						
0.	000	98 U	ntreated exi	sting imper	vious, HSG D				
0.	000	98 E	xisting impe	rvious to be	treated as offset, HSG D				
0.	.000	30 E	xisting mead	dow, non-gr	azed, HSG A				
0.	.000	71 E	xisting mead	dow, non-gr	azed, HSG C				
0.	000		xisting mead	dow, non-gr	azed, HSG D				
0.	000	30 E	xisting Wood	ds, Good, H	ISG A				
	622		xisting Wood						
	916		xisting Wood						
	000		roposed Wo						
	944		roposed Wo						
	000				pe treated, HSG C				
	000				pe treated, HSG D				
	.000				ervious, HSG C				
	000				ervious, HSG D				
	000				adow, non-grazed, HSG C				
	218				adow, non-grazed, HSG D				
	000				adow to be treated, HSG C				
	000				adow to be treated, HSG D				
	000		roposed me						
	977		roposed me						
	000		roposed me						
	000		roposed me		T, HSG D				
	677		eighted Ave						
20.	677	1	00.00% Per	/lous Area					
Tc	Length	Slop	e Velocity	Capacity	Description				
(min)	(feet)				Bescription				
6.7	100				Sheet Flow,				
0.1	100	0.130	0.23		Grass: Dense n= 0.240 P2= 2.40"				
1.0	180	0.190	00 3.05		Shallow Concentrated Flow,				
					Short Grass Pasture Kv= 7.0 fps				
4.4	2,562	0.15	9.80	58.80					
	, - 3 -			-	Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00'				
					n= 0.050 Mountain streams w/large boulders				
12.1	2,842	Total							

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Summary for Subcatchment 30S: WS 4B

Runoff = 3.72 cfs @ 12.20 hrs, Volume= 0.360 af, Depth= 0.48"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.657	70	Existing Woods, Good, HSG C
4.078	77	Existing Woods, Good, HSG D
0.184	70	Proposed Woods, Good, HSG C
1.364	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.216	98	Untreated proposed impervious, HSG C
0.393	98	Untreated proposed impervious, HSG D
0.593	71	Proposed developed meadow, non-grazed, HSG C
1.416	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.006	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
8.907	78	Weighted Average
8.298		93.16% Pervious Area
0.609		6.84% Impervious Area

Type II 24-hr 1-Year Rainfall=2.00" Printed 9/24/2021

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	54	0.1900	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
0.6	105	0.1900	3.05		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
1.0	80	0.2800	1.32		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.4	255	0.1400	11.64	69.85	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.040 Mountain streams
0.4	218	0.1100	10.32	61.91	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.040 Mountain streams
4.4	217	0.1100	0.83		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.5	189	0.0800	0.71		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.0	142	0.2300	1.20		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
24.0	1,260	Total			

Summary for Subcatchment 31S: WS 4C

Runoff = 6.96 cfs @ 12.27 hrs, Volume= 0.840 af, Depth= 0.38"

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Area	(ac)	CN D	esc	ription						
	.000	98 L	ntre	ated exist	ting imperv	rious, HSG A				
0.	.000	98 L	Intre	ated exist	ting imperv	rious, HSG C				
0.	.000	98 L	Intreated existing impervious, HSG D							
0.	.000	98 E	xisting impervious to be treated as offset, HSG D							
0.	.000	30 E	xisting meadow, non-grazed, HSG A							
0.	.802	71 E	xisti	ing meado	ow, non-gra	azed, HSG C				
2.	.723	78 E	xisti	ing meado	ow, non-gra	azed, HSG D				
0.	.000	30 E	xisti	ing Woods	s, Good, H	SG A				
3.	.606	70 E	xisti	ing Woods	s, Good, H	SG C				
5.	.804	77 E	xisti	ing Woods	s, Good, H	SG D				
1.	.389	70 F	ropo	osed Woo	ds, Good,	HSG C				
2.	.634	77 P	ropo	osed Woo	ds, Good,	HSG D				
0.	.000	98 F	ropo	osed impe	ervious to b	e treated, HSG C				
0.	.000	98 F	ropo	osed impe	ervious to b	e treated, HSG D				
0.	.213	98 L	Intre	ated prop	osed impe	rvious, HSG C				
0.	.215	98 L	Intre	ated prop	osed impe	rvious, HSG D				
0.	.336	71 P	ropo	osed deve	eloped mea	ndow, non-grazed, HSG C				
0.	.248	78 F	ropo	osed deve	eloped mea	ndow, non-grazed, HSG D				
0.	.000	71 P	ropo	osed deve	eloped mea	ndow to be treated, HSG C				
0.	.000	78 F	ropo	osed deve	eloped mea	ndow to be treated, HSG D				
3.	.924	71 P	ropo	osed mea	dow, ski tra	ail, HSG C				
	.557		ropo	osed mea	dow, ski tra	ail, HSG D				
0.	.000	71 P	ropo	osed mea	dow, ski lif	t, HSG C				
0	.000	78 F	ropo	osed mea	dow, ski lif	t, HSG D				
26.	.451	75 V	Veig	hted Aver	age					
	.023	9	8.38	3% Pervio	ue Araa					
^					us Alca					
U.	.428	1		% Impervi						
			.62%	% Impervi	ous Area					
Тс	Length	n Slo	.62% pe	% Impervious Velocity	ous Area Capacity	Description				
Tc (min)	Length	n Slo) (ft/	.62% pe ft)	% Impervious Velocity (ft/sec)	ous Area	·				
Тс	Length	n Slo) (ft/	.62% pe ft)	% Impervious Velocity	ous Area Capacity	Sheet Flow,				
Tc (min) 8.7	Length (feet	Slo (ft/ 0.10	.62% pe (ft) 00	Velocity (ft/sec) 0.19	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40"				
Tc (min)	Length	Slo (ft/ 0.10	.62% pe (ft) 00	% Impervious Velocity (ft/sec)	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow,				
Tc (min) 8.7 0.3	Length (feet) 100	Slo) (ft/) 0.10	.62% pe ft) 00	Velocity (ft/sec) 0.19 2.21	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps				
Tc (min) 8.7	Length (feet	Slo) (ft/) 0.10	.62% pe ft) 00	Velocity (ft/sec) 0.19	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,				
Tc (min) 8.7 0.3 3.0	Length (feet) 100 37 270	Slo (ft/ 0.10 0.10 0.37	.62% pe ft) 00 00	Welocity Velocity (ft/sec) 0.19 2.21 1.52	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps				
Tc (min) 8.7 0.3	Length (feet) 100	Slo (ft/ 0.10 0.10 0.37	.62% pe ft) 00 00	Velocity (ft/sec) 0.19 2.21	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,				
Tc (min) 8.7 0.3 3.0 1.8	Length (feet) 100 37 270 431	Slo (ft/ 0 0.10 7 0.10 0 0.37 0.32	.62% pe ft) 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps				
Tc (min) 8.7 0.3 3.0	Length (feet) 100 37 270	Slo (ft/ 0 0.10 7 0.10 0 0.37 0.32	.62% pe ft) 00 00 00	Welocity Velocity (ft/sec) 0.19 2.21 1.52	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,				
Tc (min) 8.7 0.3 3.0 1.8 1.7	Length (feet) 100 37 270 431 157	Slo (ft/ 0 0.10 0 0.37 0 0.32 0 0.38	.62% pe ft) 00 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps				
Tc (min) 8.7 0.3 3.0 1.8	Length (feet) 100 37 270 431 157	Slo (ft/ 0 0.10 7 0.10 0 0.37 0.32	.62% pe ft) 00 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,				
Tc (min) 8.7 0.3 3.0 1.8 1.7	Length (feet) 100 37 270 431 157	Slo (ft/ 0.10 0.10 0.37 0.32 0.38 2.0.21	.62% pe ft) 000 000 000 000	% Impervious Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps				
Tc (min) 8.7 0.3 3.0 1.8 1.7	Length (feet) 100 37 270 431 157	Slo (ft/ 0.10 0.10 0.37 0.32 0.38 2.0.21	.62% pe ft) 000 000 000 000	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,				
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5	Length (feet) 100 37 270 431 157 702 262	Slo (ft/ 0 0.10 0 0.37 0.32 7 0.38 2 0.21 2 0.25	.62% pe fft) 000 000 000 000	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25	ous Area Capacity (cfs)	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps				
Tc (min) 8.7 0.3 3.0 1.8 1.7	Length (feet) 100 37 270 431 157	Slo (ft/ 0 0.10 7 0.10 9 0.37 0.32 7 0.38 2 0.21 2 0.25	.62% pe fft) 000 000 000 000	% Impervious Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch				
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5	Length (feet) 100 37 270 431 157 702 262	Slo (ft/ 0 0.10 0 0.37 0.32 7 0.38 2 0.21 2 0.25	.62% pe fft) 000 000 000 000	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25	ous Area Capacity (cfs)	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5 1.7	Length (feet) 100 37 270 431 157 702 262 740	1 Slo (ft/ 0 0.10 7 0.10 9 0.37 9 0.32 7 0.38 2 0.21 9 0.25 9 0.22	.62% pe ff) 00 00 00 00 00 00 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25 7.36	ous Area Capacity (cfs)	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch				
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5	Length (feet) 100 37 270 431 157 702 262	1 Slo (ft/ 0 0.10 7 0.10 9 0.37 9 0.32 7 0.38 2 0.21 2 0.25 9 0.22	.62% pe ff) 00 00 00 00 00 00 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25	ous Area Capacity (cfs)	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch Shallow Concentrated Flow,				
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5 1.7	Length (feet) 100 37 270 431 157 702 262 740	Slo (ft/ 0 0.10 0 0.37 0.32 7 0.38 2 0.21 2 0.25 0 0.22	.62% pe (ft) 00 00 00 00 00 00 00 00 00 00 00 00	% Impervious Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25 7.36 1.17	cus Area Capacity (cfs) 22.07	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps				
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5 1.7	Length (feet) 100 37 270 431 157 702 262 740	Slo (ft/ 0 0.10 0 0.37 0.32 7 0.38 2 0.21 2 0.25 0 0.22	.62% pe (ft) 00 00 00 00 00 00 00 00 00 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25 7.36	ous Area Capacity (cfs)	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps				

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n= 0.050 Mountain streams w/large boulders

28.4 3,294 Total

Summary for Subcatchment 32S: WS 5

Runoff = 0.82 cfs @ 12.24 hrs, Volume= 0.088 af, Depth= 0.45"

 Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.012	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.790	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.133	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.420	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
 0.000	78	Proposed meadow, ski lift, HSG D
2.355	77	Weighted Average
2.343		99.49% Pervious Area
0.012		0.51% Impervious Area

Type II 24-hr 1-Year Rainfall=2.00" Printed 9/24/2021

55310.01-West Mountain-PR

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
_	10.9	38	0.0900	0.06	, ,	Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	2.0	89	0.0900	0.75		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.3	240	0.1400	0.94		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	8.1	345	0.0800	0.71		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	1.4	87	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.1	88	0.1400	13.49	40.48	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_						n= 0.030 Stream, clean & straight
	26.8	887	Total			

Summary for Subcatchment 33S: WS 6

Runoff = 3.15 cfs @ 12.10 hrs, Volume= 0.234 af, Depth= 0.45"

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Area	(ac) (CN Des	scription							
				ting imperv	vious, HSG A					
	000		Untreated existing impervious, HSG C							
	041		Intreated existing impervious, HSG D							
	000		Existing impervious to be treated as offset, HSG D							
	000		Existing meadow, non-grazed, HSG A							
	000				azed, HSG C					
	000				azed, HSG D					
	000		sting Mood							
	000		sting Wood							
	020		sting Wood							
	000									
	108		posed Woo							
			posed Woo							
	000				pe treated, HSG C					
	000				pe treated, HSG D					
	000				ervious, HSG C					
	000				ervious, HSG D					
	000				adow, non-grazed, HSG C					
	595				adow, non-grazed, HSG D					
	000		•		adow to be treated, HSG C					
	000				adow to be treated, HSG D					
	000		posed mea							
	493		posed mea							
	000		posed mea							
	000		posed mea		t, HSG D					
	257		ighted Ave	•						
	216		34% Pervio							
0.	041	0.66	6% Impervi	ous Area						
Тс	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	•		(cfs)	Bookingtion					
8.3	100			(3.5)	Sheet Flow,					
					Grass: Dense n= 0.240 P2= 2.40"					
0.7	93	0.1100	2.32		Shallow Concentrated Flow,					
					Short Grass Pasture Kv= 7.0 fps					
1.3	201	0.1400	2.62		Shallow Concentrated Flow,					
	_0.	0.1.00	2.02		Short Grass Pasture Kv= 7.0 fps					
0.5	261	0.1500	8.96	35.82						
0.0	_0.	0.1000	0.00	00.02	Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'					
					n= 0.050					
0.5	182	0.0700	6.12	24.47						
0.0	102	0.0700	0.12	27.77	Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'					
					n= 0.050					
0.8	241	0.0500	5.17	20.68						
0.0	241	0.0300	5.17	20.00	Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'					
					n= 0.050 Mountain streams w/large boulders					
2.8	119	0.0800	0.71		Shallow Concentrated Flow,					
2.0	119	0.0000	0.71							
0.0	74	0.0600	E 20	15.00	Forest w/Heavy Litter Kv= 2.5 fps					
0.2	71	0.0600	5.30	15.90	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.050					
15 1	1 260	Total			11- 0.000					
15.1	1,268	Total								

Summary for Subcatchment 34S: WS 6A

Runoff = 4.99 cfs @ 12.14 hrs, Volume= 0.437 af, Depth= 0.41"

Area	(ac) C	N Des	cription							
0.	.000	98 Untr	Jntreated existing impervious, HSG A							
0.			Jntreated existing impervious, HSG C							
0.			Untreated existing impervious, HSG D							
			Existing impervious to be treated as offset, HSG D							
					azed, HSG A					
			0	, ,	azed, HSG C					
					azed, HSG D					
				s, Good, H						
1.	.611		•	s, Good, H						
4.	.153		•	s, Good, H						
0.	.560		•	ds, Good,						
0.	.902			ds, Good,						
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG C					
0	.000	98 Prop	osed impe	ervious to b	pe treated, HSG D					
0.	.000	98 Untr	eated prop	osed impe	rvious, HSG C					
0.	.406	98 Untr	eated prop	osed impe	rvious, HSG D					
0.	.000	71 Prop	osed deve	eloped mea	adow, non-grazed, HSG C					
0.	.543	78 Prop	osed deve	eloped mea	adow, non-grazed, HSG D					
0.	.000	71 Prop	osed deve	eloped mea	adow to be treated, HSG C					
0	.000	78 Prop	osed deve	eloped mea	adow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lif						
0	.000	78 Prop	osed mea	dow, ski lif	t, HSG D					
12	.671	76 Weig	ghted Aver	age						
12	.265	96.8	0% Pervio	us Area						
0	.406	3.20	% Impervi	ous Area						
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.8	53	0.1800	0.08		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
5.0	440	0.3400	1.46		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.3	142	0.0800	7.46	22.39	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.041 Riprap, 2-inch					
0.6	62	0.5500	1.85		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
2.1	1,603	0.1370	12.71	152.58	Trap/Vee/Rect Channel Flow,					
					Bot.W=4.00' D=2.00' Z= 1.0 '/' Top.W=8.00'					
					n= 0.050 Mountain streams w/large boulders					
10 0	2 200	Total								

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Summary for Subcatchment 35S: WS 6B

Runoff = 1.18 cfs @ 12.13 hrs, Volume= 0.091 af, Depth= 0.60"

Area	(ac) (CN	Desc	ription								
0	.000	98	Untre	eated exist	ting imperv	rious, HSG A						
0			Untre	Intreated existing impervious, HSG C								
0	.000	98	Untre	Jntreated existing impervious, HSG D								
0	.000	98	Exist	Existing impervious to be treated as offset, HSG D								
			Exist	ing meado	w, non-gra	azed, HSG A						
0	.000	71	Exist	ing meado	w, non-gra	azed, HSG C						
						azed, HSG D						
					s, Good, H							
					s, Good, H							
					s, Good, H							
					ds, Good,							
					ds, Good,							
						e treated, HSG C						
						e treated, HSG D						
						rvious, HSG C						
						rvious, HSG D						
						dow, non-grazed, HSG C						
						dow, non-grazed, HSG D						
						idow to be treated, HSG C						
						dow to be treated, HSG D						
					dow, ski tra							
					dow, ski tra							
					dow, ski lift dow, ski lift							
						I, ПЗЭ D						
				hted Aver								
	.517 .298			8% Pervio								
U	.290		10.42	2% imperv	rious Area							
Тс	Length	, QI	ope	Velocity	Capacity	Description						
(min)	(feet)		ft/ft)	(ft/sec)	(cfs)	Description						
					(613)	Chaot Flour						
10.7	62	0.2	500	0.10		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.40"						
1.2	93	0.2	500	1 25								
1.2	93	0.2	300	1.25		Shallow Concentrated Flow,						
1.7	194	0.5	500	1.85		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,						
1.7	194	0.5	300	1.00		· · · · · · · · · · · · · · · · · · ·						
1.2	97	0.2	700	1.30		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,						
1.2	91	0.2	100	1.50		Forest w/Heavy Litter Kv= 2.5 fps						
3.8	234	0.1	700	1.03		Shallow Concentrated Flow,						
5.0	2J 4	0.1	, 00	1.00		Forest w/Heavy Litter Kv= 2.5 fps						
18.6	680	Tot	 al			1 01000 W/1 1000 y Little 110- 2.0 1po						
10.0	550	100										

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Summary for Subcatchment 36S: WS 6C

Runoff = 0.99 cfs @ 12.22 hrs, Volume= 0.098 af, Depth= 0.52"

Area	(ac) (CN Des	cription								
0	.000	98 Untr	eated exis	ting imperv	rious, HSG A						
0	.000	98 Untr	Untreated existing impervious, HSG C								
0	.000	98 Untr	Jntreated existing impervious, HSG D								
0	.000	98 Exis	ting imper	vious to be	treated as offset, HSG D						
0	.000	30 Exis	ting meado	ow, non-gra	azed, HSG A						
0	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0	.000	30 Exis	ting Wood	s, Good, H	SG A						
0	.000	70 Exis	ting Wood	s, Good, H	SG C						
0	.784	77 Exis	ting Wood	s, Good, H	SG D						
0	.000	70 Prop	osed Woo	ds, Good,	HSG C						
0	.244	77 Prop	osed Woo	ds, Good,	HSG D						
0	.000				e treated, HSG C						
0	.000	98 Prop	osed impe	ervious to b	pe treated, HSG D						
0			eated prop	osed impe	rvious, HSG C						
					rvious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lif							
				dow, ski lif	t, HSG D						
			ghted Aver								
	.035		8% Pervio								
0	.214	9.52	% Impervi	ous Area							
Tc	Length		Velocity	Capacity	Description						
<u>(min)</u>	(feet)	, ,	(ft/sec)	(cfs)							
8.0	100	0.1200	0.21		Sheet Flow,						
					n= 0.240 P2= 2.40"						
0.6	29	0.1200	0.87		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
0.2	82	0.1500	7.25	14.50	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' n= 0.050						
7.1	281	0.0700	0.66		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
10.0	150	0.0100	0.25		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
25.9	642	Total									

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Summary for Subcatchment 37S: WS 7

Runoff = 0.53 cfs @ 12.07 hrs, Volume= 0.035 af, Depth= 0.48"

Area	(ac) (CN Des	scription									
0	.000	98 Unt	reated exis	rious, HSG A								
0	.000		Untreated existing impervious, HSG C									
0	.056		Jntreated existing impervious, HSG D									
0	.000		Existing impervious to be treated as offset, HSG D									
0	.000	30 Exis	sting mead	ow, non-gra	azed, HSG A							
0	.000	71 Exis	sting mead	ow, non-gra	azed, HSG C							
0	.000	78 Exis	sting mead	ow, non-gra	azed, HSG D							
0	.000	30 Exis	sting Wood	ls, Good, H	SG A							
0	.000	70 Exis	sting Wood	ls, Good, H	SG C							
0				ls, Good, H								
				ods, Good,								
				ods, Good,								
					e treated, HSG C							
					e treated, HSG D							
					rvious, HSG C							
					rvious, HSG D							
					adow, non-grazed, HSG C							
					adow, non-grazed, HSG D							
					adow to be treated, HSG C							
					adow to be treated, HSG D							
				adow, ski tra								
				adow, ski tra								
			•	adow, ski lif								
				adow, ski lif	I, HSG D							
	-		ighted Ave									
	.816		58% Pervio									
U	.056	6.4	2% Impervi	ious Area								
То	Longth	Clana	Valacity	Canacity	Description							
Tc (min)	Length (feet)			Capacity (cfs)	Description							
(min)				(CIS)	Oh a of Elaw							
10.7	43	0.1200	0.07		Sheet Flow,							
4.0	00	0.4000	0.70		Woods: Dense underbrush n= 0.800 P2= 2.40"							
1.9	92	0.1000	0.79		Shallow Concentrated Flow,							
0.2	252	0.0500	16.62	166.00	Forest w/Heavy Litter Kv= 2.5 fps							
0.3	253	0.0500	16.63	166.28	Trap/Vee/Rect Channel Flow,							
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'							
0.1	130	0 0000	21.03	210.33	n= 0.022 Earth, clean & straight							
0.1	130	0.0800	∠1.03	Z 1U.33	Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'							
					n= 0.022 Earth, clean & straight							
12.0	E40	Total			11- 0.022 Latti, Geati & Stratytil							
13.0	518	Total										

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Summary for Subcatchment 38S: WS 7A

Runoff = 4.85 cfs @ 11.93 hrs, Volume= 0.207 af, Depth= 0.85"

Area	(ac) (CN Des	cription								
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A						
			Untreated existing impervious, HSG C								
0.	.000				rious, HSG D						
0.	.099	98 Exis	ting imper	vious to be	treated as offset, HSG D						
0.	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A						
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
					azed, HSG D						
0.	.000	30 Exis	ting Wood	s, Good, H	SG A						
				s, Good, H							
0.			_	s, Good, H							
				ds, Good,							
				ds, Good,							
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					adow, non-grazed, HSG C						
					dow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lift							
				dow, ski lift	I, H5G D						
			ghted Aver								
	.751		5% Pervio								
1.	.170	40.0	15% Imper	vious Area							
т.	1 41-	Olana.	\	0	Description						
Tc	Length		Velocity	Capacity	Description						
<u>(min)</u>	(feet)		(ft/sec)	(cfs)							
1.4	100	0.0200	1.19		Sheet Flow,						
					Smooth surfaces n= 0.011 P2= 2.40"						
0.2	33	0.0200	2.87		Shallow Concentrated Flow,						
					Paved Kv= 20.3 fps						
0.1	37	0.4600	4.75		Shallow Concentrated Flow,						
	00	0.4400	0.00		Short Grass Pasture Kv= 7.0 fps						
0.5	86	0.1400	2.62		Shallow Concentrated Flow,						
2.2	400	0.4000	47.04	- 4.4.4	Short Grass Pasture Kv= 7.0 fps						
0.2	190	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.022						

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Summary for Subcatchment 39S: WS 7B

Runoff = 0.72 cfs @ 11.98 hrs, Volume= 0.036 af, Depth= 0.48"

Area	(ac) C	N Des	cription								
0	.000	98 Untr	eated exis	ting imperv	rious, HSG A						
0.	.000	98 Untr	Untreated existing impervious, HSG C								
0.	.000	98 Untr	Untreated existing impervious, HSG D								
0.	.000	98 Exis	ting imper	vious to be	treated as offset, HSG D						
0.	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A						
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
			ting Wood	s, Good, H	SG A						
0.	.000			s, Good, H							
				s, Good, H							
0.			osed Woo	ods, Good,	HSG C						
0.				ods, Good,							
0.	.000	98 Prop	osed impe	ervious to b	e treated, HSG C						
					pe treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
				idow, ski tra							
				dow, ski tra							
				dow, ski lif							
				dow, ski lif	t, HSG D						
			ghted Ave								
0	.886	100	.00% Perv	ious Area							
_		٥.									
Tc	Length		Velocity	Capacity	Description						
(min)	(feet)		(ft/sec)	(cfs)							
4.1	51	0.1700	0.21		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
0.3	57	0.1700	2.89		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
1.0	146	0.1100	2.32		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
0.0	13	0.4600	4.75		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
0.5	67	0.1200	2.42		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
5.9	334	Total									

Summary for Subcatchment 40S: WS 7C

Runoff = 2.56 cfs @ 12.16 hrs, Volume= 0.234 af, Depth= 0.41"

Area	(ac) C	N Desc	cription								
0.	.000	98 Untr	Untreated existing impervious, HSG A								
			Jntreated existing impervious, HSG C								
			Intreated existing impervious, HSG D								
					treated as offset, HSG D						
			• .		azed, HSG A						
			•		azed, HSG C						
					azed, HSG D						
				s, Good, H							
				s, Good, H							
				s, Good, H							
			•	ds, Good, III							
				ds, Good, ds, Good,							
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					idow, non-grazed, HSG C						
					idow, non-grazed, HSG D						
					idow to be treated, HSG C						
				•	idow to be treated, HSG D						
				dow, ski tra	·						
				dow, ski tra							
				dow, ski lift							
				dow, ski lift							
			hted Aver		, -						
	355		1% Pervio	•							
	419		% Impervi								
0.		00	, opo	040704							
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	'						
10.8	65	0.2700	0.10	,	Sheet Flow,						
10.0	00	0.2.00	00		Woods: Dense underbrush n= 0.800 P2= 2.40"						
7.4	508	0.2100	1.15		Shallow Concentrated Flow,						
		0.2.00			Forest w/Heavy Litter Kv= 2.5 fps						
0.4	107	0.0400	4.58	54.96	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00'						
					n= 0.069 Riprap, 6-inch						
0.5	407	0.1600	12.66	142.37	Trap/Vee/Rect Channel Flow,						
					Bot.W=6.00' D=1.50' Z= 1.0 '/' Top.W=9.00'						
					n= 0.050 Mountain streams w/large boulders						
1.0	57	0.1400	0.94		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
20.1	1,144	Total			·						

Summary for Subcatchment 41S: WS 7D

Runoff = 1.24 cfs @ 12.04 hrs, Volume= 0.072 af, Depth= 0.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 1-Year Rainfall=2.00"

Area	(ac) (CN D	esc	ription						
0.	000	98 U	Jntreated existing impervious, HSG A							
0.	000	98 U	Jntreated existing impervious, HSG C							
0.	000	98 U	Intreated existing impervious, HSG D							
0.	000	98 E	xist	ing imperv	ious to be	treated as offset, HSG D				
0.	000	30 E	xist	ing meado	w, non-gra	azed, HSG A				
0.	000	71 E	xist	ing meado	w, non-gra	azed, HSG C				
0.	000	78 E	xist	ing meado	w, non-gra	azed, HSG D				
0.	000	30 E	xist	ing Woods	s, Good, H	SG A				
0.	000	70 E	xist	ing Woods	s, Good, H	SG C				
0.	030	77 E	xist	ing Woods	s, Good, H	SG D				
0.	000	70 P	rop	osed Woo	ds, Good, I	HSG C				
0.	000	77 P	rop	osed Woo	ds, Good, I	HSG D				
0.	000	98 P	rop	osed impe	rvious to b	e treated, HSG C				
0.	405	98 P	rop	osed impe	rvious to b	e treated, HSG D				
0.	000	98 U	ntre	eated prop	osed impe	rvious, HSG C				
	000	98 Untreated proposed impervious, HSG D								
	000					dow, non-grazed, HSG C				
	000		rop	osed deve	loped mea	dow, non-grazed, HSG D				
	000					dow to be treated, HSG C				
	649				•	dow to be treated, HSG D				
	000				dow, ski tra					
	000				dow, ski tra					
	000				dow, ski lift					
0.	000	78 P	rop	osed mea	dow, ski lift	t, HSG D				
1.	084	85 W	/eig	hted Aver	age					
0.	679	6	2.64	1% Pervio	us Area					
0.	405	3	7.36	6% Imperv	ious Area					
Tc	Length			Velocity	Capacity	Description				
(min)	(feet)	(ft/	ft)	(ft/sec)	(cfs)					
10.8	57	0.210	00	0.09		Sheet Flow,				
						Woods: Dense underbrush n= 0.800 P2= 2.40"				
0.5	99	0.210	00	3.21		Shallow Concentrated Flow,				
						Short Grass Pasture Kv= 7.0 fps				
11.3	156	Total								

Summary for Subcatchment 42S: WS 7E

Runoff = 1.66 cfs @ 12.10 hrs, Volume= 0.119 af, Depth= 0.56"

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	Area	(ac) C	N Des	cription									
	0.	000	98 Untr	eated exis	ting imperv	ious, HSG A							
	0.	000	98 Untr	Untreated existing impervious, HSG C									
	0.	000	98 Untr	Untreated existing impervious, HSG D									
	0.	000				treated as offset, HSG D							
	0.	000				azed, HSG A							
						azed, HSG C							
						azed, HSG D							
	0.	000	30 Exis	ting Wood	s, Good, H	SG Å							
	0.	000	70 Exis	ting Wood	s, Good, H	SG C							
	1.	342			s, Good, H								
	0.	000	70 Prop	osed Woo	ds, Good, I	HSG C							
	0.	000	77 Prop	osed Woo	ds, Good, I	HSG D							
	0.	000	98 Prop	osed impe	rvious to b	e treated, HSG C							
	0.	000	98 Prop	osed impe	rvious to b	e treated, HSG D							
	0.	000	98 Untr	eated prop	osed impe	rvious, HSG C							
	0.	310	98 Untr	eated prop	osed impe	rvious, HSG D							
			71 Prop	osed deve	loped mea	dow, non-grazed, HSG C							
						dow, non-grazed, HSG D							
						dow to be treated, HSG C							
						dow to be treated, HSG D							
					dow, ski tra								
					dow, ski tra								
					dow, ski lift								
_					dow, ski lift	t, HSG D							
				ghted Aver									
		221	_	'5% Pervio									
	0.	310	12.2	25% Imper	vious Area								
	_				_								
	Тс	Length	Slope	Velocity	Capacity	Description							
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)								
	10.7	63	0.2600	0.10		Sheet Flow,							
						Woods: Dense underbrush n= 0.800 P2= 2.40"							
	0.9	70	0.2600	1.27		Shallow Concentrated Flow,							
						Forest w/Heavy Litter Kv= 2.5 fps							
	8.0	85	0.4700	1.71		Shallow Concentrated Flow,							
						Forest w/Heavy Litter Kv= 2.5 fps							
	1.7	179	0.4700	1.71		Shallow Concentrated Flow,							
						Forest w/Heavy Litter Kv= 2.5 fps							
	1.7	119	0.2200	1.17		Shallow Concentrated Flow,							
_						Forest w/Heavy Litter Kv= 2.5 fps							
	15.8	516	Total										

Summary for Subcatchment 43S: WS 7F

Runoff = 3.72 cfs @ 12.06 hrs, Volume= 0.236 af, Depth= 0.60"

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Area	(ac) C	N Des	cription								
0.	000	98 Untr	Jntreated existing impervious, HSG A								
			Jntreated existing impervious, HSG C								
0.	000		Intreated existing impervious, HSG D								
0.	000				treated as offset, HSG D						
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A						
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0.	000	30 Exis	ting Wood	s, Good, H	SG A						
0.	000	70 Exis	ting Wood	s, Good, H	SG C						
2.	397	77 Exis	ting Wood	s, Good, H	SG D						
0.	000	70 Prop	osed Woo	ds, Good,	HSG C						
				ds, Good,							
					e treated, HSG C						
					oe treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lif							
				dow, ski lif	t, HSG D						
			ghted Avei								
	977		0% Pervio								
0.	713	15.2	0% Imper	vious Area							
-		01			B						
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
10.7	73	0.3500	0.11		Sheet Flow,						
4 -	4.4-	0.0500	4 40		Woods: Dense underbrush n= 0.800 P2= 2.40"						
1.7	147	0.3500	1.48		Shallow Concentrated Flow,						
0.4	000	0.0400	40.55	400.00	Forest w/Heavy Litter Kv= 2.5 fps						
0.4	286	0.2400	12.55	100.38	Trap/Vee/Rect Channel Flow,						
0.0	470	0.0000	4445	407.00	Bot.W=8.00' D=1.00' n= 0.050						
0.2	170	0.2900	14.15	127.33	Trap/Vee/Rect Channel Flow,						
					Bot.W=8.00' D=1.00' Z= 1.0 '/' Top.W=10.00'						
40.0	070	T-4-1			n= 0.050						
13.0	676	Total									

Summary for Subcatchment 44S: WS 7G

Runoff = 1.91 cfs @ 12.22 hrs, Volume= 0.183 af, Depth= 0.60"

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Area	(ac) (CN De	scription								
0.	000	98 Ur	treated exis	ting imperv	rious, HSG A						
0.	000		Intreated existing impervious, HSG C								
0.	000	98 Ur	Intreated existing impervious, HSG D								
0.	000	98 Ex	isting imper	vious to be	treated as offset, HSG D						
0.	000	30 Ex	isting mead	ow, non-gra	azed, HSG A						
0.	000	71 Ex	isting mead	ow, non-gra	azed, HSG C						
0.	000	78 Ex	isting mead	ow, non-gra	azed, HSG D						
0.	000	30 Ex	isting Wood	s, Good, H	SG A						
0.	000	70 Ex	isting Wood	s, Good, H	SG C						
1.	232	77 Ex	isting Wood	s, Good, H	SG D						
0.	000	70 Pr	oposed Woo	ods, Good,	HSG C						
0.	201	77 Pr	oposed Woo	ods, Good,	HSG D						
0.	000	98 Pr	oposed impe	ervious to b	pe treated, HSG C						
0.	000	98 Pr	oposed impe	ervious to b	pe treated, HSG D						
0.	000		treated prop	oosed impe	ervious, HSG C						
0.	550				ervious, HSG D						
	000				adow, non-grazed, HSG C						
	269				adow, non-grazed, HSG D						
	000				adow to be treated, HSG C						
	000				adow to be treated, HSG D						
	000		oposed mea								
	379		oposed mea								
	000		oposed mea	·							
	000		oposed mea		t, HSG D						
	631		eighted Ave	•							
	081		.85% Pervio								
0.	550	15	.15% Imper	vious Area							
Tc	Length	Slop	e Velocity	Capacity	Description						
(min)	(feet)	•		(cfs)	Description						
7.4	100	•		(616)	Sheet Flow,						
7.4	100	0.150	0.20		Grass: Dense n= 0.240 P2= 2.40"						
1.3	75	0.150	0.97		Shallow Concentrated Flow,						
1.5	70	0.150	0.57		Forest w/Heavy Litter Kv= 2.5 fps						
0.3	28	0.500	1.77		Shallow Concentrated Flow,						
0.0	20	0.000	1.77		Forest w/Heavy Litter Kv= 2.5 fps						
4.1	194	0.100	0.79		Shallow Concentrated Flow,						
•••		5.100	0.70		Forest w/Heavy Litter Kv= 2.5 fps						
4.6	181	0.070	0.66		Shallow Concentrated Flow,						
1.5	.51	5.570	0.00		Forest w/Heavy Litter Kv= 2.5 fps						
8.2	276	0.050	0.56		Shallow Concentrated Flow,						
0.2	0	2.000	3.50		Forest w/Heavy Litter Kv= 2.5 fps						
0.2	53	0.040	4.33	12.98	· · · · · · · · · · · · · · · · · · ·						
-	3.				Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.050 Mountain streams w/large boulders						
26.1	907	Total									

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Summary for Subcatchment 45S: WS 7H

Runoff = 1.37 cfs @ 12.01 hrs, Volume= 0.078 af, Depth= 0.38"

Area	(ac) C	N Des	cription								
0.	.000	98 Untr	Untreated existing impervious, HSG A								
0.	.000		Untreated existing impervious, HSG C								
0.	.000	98 Untr	Untreated existing impervious, HSG D								
0.	.000		Existing impervious to be treated as offset, HSG D								
0.	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A						
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0.	.000	30 Exis	ting Wood	s, Good, H	SG A						
0.	.619	70 Exis	ting Wood	s, Good, H	SG C						
			ting Wood	s, Good, H	SG D						
				ds, Good,							
				ds, Good,							
			•		e treated, HSG C						
			•		e treated, HSG D						
				•	rvious, HSG C						
					rvious, HSG D						
				•	adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
				•	adow to be treated, HSG D						
				dow, ski tra dow, ski tra							
				dow, ski lift							
				dow, ski lift							
			ghted Aver		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	.132		9% Pervio								
	.336			ious Area							
			. ,								
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	•						
0.9	100	0.0600	1.85	, ,	Sheet Flow,						
					n= 0.011 P2= 2.40"						
0.5	18	0.0600	0.61		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
0.3	31	0.4800	1.73		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
3.3	196	0.1600	1.00		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
2.6	158	0.1600	1.00		Shallow Concentrated Flow,						
. .			0.40	40.45	Forest w/Heavy Litter Kv= 2.5 fps						
0.1	56	0.0900	6.49	19.48	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.050						

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7.7 559 Total

Summary for Subcatchment 46S: WS 8

Runoff = 0.29 cfs @ 12.04 hrs, Volume= 0.017 af, Depth= 0.60"

Area	(ac) C	N Des	cription								
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A						
0.	000		Jntreated existing impervious, HSG C								
0.	066	98 Untr	Jntreated existing impervious, HSG D								
0.	000	98 Exis	ting imper	vious to be	treated as offset, HSG D						
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A						
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0.	000	30 Exis	ting Wood	s, Good, H	SG A						
0.	000	70 Exis	ting Wood	s, Good, H	SG C						
			•	s, Good, H							
				ds, Good,							
				ds, Good,							
					e treated, HSG C						
					oe treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
				•	adow to be treated, HSG C						
					adow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lif							
				dow, ski lif	t, HSG D						
			ghted Aver								
	278		1% Pervio								
0.	066	19.1	9% Imper	/ious Area							
_		01			B						
Tc	Length		Velocity	Capacity	Description						
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)							
10.9	40	0.1000	0.06		Sheet Flow,						
					Woods: Dense underbrush n= 0.800 P2= 2.40"						
0.2	11	0.1000	0.79		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
0.4	276	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
		-			n= 0.022						
11.5	327	Total									

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Summary for Subcatchment 47S: WS 9

Runoff = 0.14 cfs @ 12.04 hrs, Volume= 0.008 af, Depth= 0.65"

Area ((ac) (CN Des	cription							
0.0	000	98 Unti	Jntreated existing impervious, HSG A							
0.0	000	98 Untı	Untreated existing impervious, HSG C							
0.0	036	98 Untı	Jntreated existing impervious, HSG D							
0.0	000	98 Exis	ting imper	vious to be	treated as offset, HSG D					
0.0			ting mead	ow, non-gra	azed, HSG A					
0.0			ting mead	ow, non-gra	azed, HSG C					
0.0	000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
				s, Good, H						
0.0	000			s, Good, H						
				s, Good, H						
				ds, Good,						
				ds, Good,						
					e treated, HSG C					
					oe treated, HSG D					
					rvious, HSG C					
			Untreated proposed impervious, HSG D							
			Proposed developed meadow, non-grazed, HSG C							
					adow, non-grazed, HSG D					
					adow to be treated, HSG C					
					adow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lift						
				dow, ski lif	t, HSG D					
			ghted Aver							
	112		88% Pervio							
0.0	036	24.3	32% Imper	/ious Area						
Тс	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.9	38	0.0900	0.06		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
0.2	173	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022					
11.1	211	Total								

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Summary for Subcatchment 48S: WS 10

Runoff = 0.93 cfs @ 12.00 hrs, Volume= 0.050 af, Depth= 0.48"

Area	(ac)	CN	Desc	cription								
0	.000	98	Untr	eated exis	ting imperv	ious, HSG A						
0	.000	98	Untr	Jntreated existing impervious, HSG C								
0	.000	98	Untr	Intreated existing impervious, HSG D								
0	.000	98	Exist	ting imper	vious to be	treated as offset, HSG D						
0	.000	30	Exist	ting mead	ow, non-gra	azed, HSG A						
0	.000	71	Exist	ting mead	ow, non-gra	azed, HSG C						
0	.000	78	Exist	ting mead	ow, non-gra	azed, HSG D						
0	.000	30	Exist	ting Wood	s, Good, H	SG A						
	.000	70	Exist	ting Wood	s, Good, H	SG C						
0	.332	77	Exist	ting Wood	s, Good, H	SG D						
0	.000	70	Prop	osed Woo	ds, Good,	HSG C						
	.175	77		osed Woo	ds, Good,	HSG D						
	.000	98				e treated, HSG C						
	.000	98				e treated, HSG D						
	.000	98				rvious, HSG C						
	.000	98				rvious, HSG D						
	.000	71				dow, non-grazed, HSG C						
	.208	78				dow, non-grazed, HSG D						
	.000	71			•	dow to be treated, HSG C						
	.000	78				dow to be treated, HSG D						
	.000	71			dow, ski tra							
	.513	78			dow, ski tra							
	.000	71			dow, ski lift							
	.000	78			dow, ski lift	t, HSG D						
	.228	78		ghted Aver								
1	.228		100.	00% Pervi	ous Area							
Tc	U		Slope	Velocity	Capacity	Description						
<u>(min)</u>	(fee		(ft/ft)	(ft/sec)	(cfs)							
4.2	3	38	0.0900	0.15		Sheet Flow,						
						Grass: Dense n= 0.240 P2= 2.40"						
0.7	3	34	0.0900	2.10		Shallow Concentrated Flow,						
						Short Grass Pasture Kv= 7.0 fps						
1.1	7	79	0.2300	1.20		Shallow Concentrated Flow,						
						Forest w/Heavy Litter Kv= 2.5 fps						
1.6	10	06	0.1900	1.09		Shallow Concentrated Flow,						
						Forest w/Heavy Litter Kv= 2.5 fps						
7.6	30)7	Total									

Summary for Subcatchment 49S: WS 10A

Runoff = 1.91 cfs @ 12.04 hrs, Volume= 0.118 af, Depth= 0.48"

Area	(ac)	CN I	Desc	cription								
0.	.000	98 l	Untre	eated exis	ting imperv	ious, HSG A						
0.	.000	98 I	Untreated existing impervious, HSG C									
0.	.000	98 I	Untreated existing impervious, HSG D									
0.	.000	98 I	Exist	Existing impervious to be treated as offset, HSG D								
0.	.000	30 I	Exist	ing mead	ow, non-gra	azed, HSG A						
0.	.000	71 I	Exist	ing mead	ow, non-gra	azed, HSG C						
0.	.000	78 I	Exist	ing mead	ow, non-gra	azed, HSG D						
0.	.000	30 I	Exist	ing Wood	s, Good, H	SG A						
0.	.000	70 I	Exist	ing Wood	s, Good, H	SG C						
0.	.000	77 I	Exist	ing Wood	s, Good, H	SG D						
0.	.003	70 I	Prop	osed Woo	ds, Good, I	HSG C						
0.	.037	77 I	Prop	osed Woo	ds, Good, l	HSG D						
	.000					e treated, HSG C						
	.000					e treated, HSG D						
	.000					rvious, HSG C						
	.184					rvious, HSG D						
	.194			Proposed developed meadow, non-grazed, HSG C								
	.430		Proposed developed meadow, non-grazed, HSG D									
	.000				•	dow to be treated, HSG C						
	.000					dow to be treated, HSG D						
	.172				dow, ski tra							
	.891				dow, ski tra							
	.000				dow, ski lift							
	.000				dow, ski lift	; HSG D						
	.911			hted Aver								
	.727			8% Pervio								
0.	.184	(6.32	% Impervi	ous Area							
Tc	Length		ope	Velocity	Capacity	Description						
<u>(min)</u>	(feet	, ,	t/ft)	(ft/sec)	(cfs)							
6.3	100	0.22	200	0.26		Sheet Flow,						
						Grass: Dense n= 0.240 P2= 2.40"						
0.9	122	2 0.11	100	2.32		Shallow Concentrated Flow,						
						Short Grass Pasture Kv= 7.0 fps						
1.0	154	4 0.14	400	2.62		Shallow Concentrated Flow,						
						Short Grass Pasture Kv= 7.0 fps						
2.8	204	1 0.24	400	1.22		Shallow Concentrated Flow,						
						Forest w/Heavy Litter Kv= 2.5 fps						
11.0	580) Tota	al									

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Summary for Subcatchment 50S: WS 10B

Runoff = 2.29 cfs @ 12.12 hrs, Volume= 0.191 af, Depth= 0.38"

Area	(ac)	CN	Desc	cription							
0.	.000	98	Untre	eated exis	ting imperv	rious, HSG A					
0.	.000	98		Untreated existing impervious, HSG C							
0.	.000	98	Untre	eated exis	ting imperv	rious, HSG D					
0.	.000	98	Exist	ting imperv	vious to be	treated as offset, HSG D					
0.	.000	30	Exist	ting meado	ow, non-gra	azed, HSG A					
0.	.000	71	Exist	ting meado	ow, non-gra	azed, HSG C					
0.	.000	78	Exist	ting meado	ow, non-gra	azed, HSG D					
0.	.000	30	Exist	ing Wood	s, Good, H	SG A					
0.	.876	70	Exist	ing Wood	s, Good, H	SG C					
0.	149	77	Exist	ing Wood	s, Good, H	SG D					
1.	.162	70	Prop	osed Woo	ds, Good,	HSG C					
0.	.000	77	Prop	osed Woo	ds, Good,	HSG D					
	.000	98				e treated, HSG C					
0.	.000	98	Prop	osed impe	ervious to b	e treated, HSG D					
	.768	98				rvious, HSG C					
	.087	98				rvious, HSG D					
	.449	71				ndow, non-grazed, HSG C					
	0.473 78 Proposed developed meadow, non-grazed, HSG D										
	.000	71				ndow to be treated, HSG C					
	.000	78				ndow to be treated, HSG D					
	.043	71			dow, ski tra						
	.000	78			dow, ski tra						
	.000	71			dow, ski lift						
0.	.000	78	Prop	osed mea	dow, ski lift	t, HSG D					
	.007	75		hted Aver							
5.	.152		85.7	7% Pervio	us Area						
0.	.855		14.2	3% Imper\	/ious Area						
Tc	Lengtl		Slope	Velocity	Capacity	Description					
(min)	(feet	:)	(ft/ft)	(ft/sec)	(cfs)						
10.8	56	6 0.2	2000	0.09		Sheet Flow,					
						Woods: Dense underbrush n= 0.800 P2= 2.40"					
4.5	35	5 0.2	2800	1.32		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
1.2	533	3 0.	1200	7.50	22.49	Trap/Vee/Rect Channel Flow,					
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
						n= 0.050 Mountain streams w/large boulders					
16.5	944	4 To	otal								

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Summary for Subcatchment 51S: WS 10C

Runoff = 1.24 cfs @ 12.08 hrs, Volume= 0.084 af, Depth= 0.65"

Area	(ac)	CN	Desc	cription								
0.	000	98	Untre	eated exis	ting imperv	rious, HSG A						
0.	000	98		Untreated existing impervious, HSG C								
0.	000	98		Untreated existing impervious, HSG D								
0.	000	98	Exist	ting imperv	ious to be	treated as offset, HSG D						
0.	000	30	Exist	ting meado	ow, non-gra	azed, HSG A						
0.	000	71	Exist	ing meado	ow, non-gra	azed, HSG C						
	000	78				azed, HSG D						
	000	30			s, Good, H							
	003	70			s, Good, H							
	288	77			s, Good, H							
	000	70			ds, Good,							
	000	77			ds, Good,							
	196	98				pe treated, HSG C						
	282	98				pe treated, HSG D						
	000	98				rvious, HSG C						
	000	98		Untreated proposed impervious, HSG D								
	000	71		Proposed developed meadow, non-grazed, HSG C								
	000	78		Proposed developed meadow, non-grazed, HSG D								
	364	71				adow to be treated, HSG C						
	413	78				adow to be treated, HSG D						
	000	71			dow, ski tra							
	000	78			dow, ski tra							
	000	71			dow, ski lift							
	000	78			dow, ski lift	I, HSG D						
	546	82		hted Aver	•							
	068			8% Pervio								
0.	478		30.9	2% imperv	ious Area							
Tc	Lengt	h CI	lope	Velocity	Capacity	Description						
(min)	(feet		ft/ft)	(ft/sec)	(cfs)	Description						
10.8	6		2800	0.10	(013)	Sheet Flow,						
10.0	O.	0 0.2	.000	0.10		Woods: Dense underbrush n= 0.800 P2= 2.40"						
1.8	14	6 02	800	1.32		Shallow Concentrated Flow,						
1.0	14	0 0.2	.000	1.52		Forest w/Heavy Litter Kv= 2.5 fps						
2.4	16	2 0 2	2000	1.12		Shallow Concentrated Flow,						
۷.٦	10.	_ 0.2	.000	1.12		Forest w/Heavy Litter Kv= 2.5 fps						
15.0	37	4 Tot	tal									

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Summary for Subcatchment 52S: WS 11

Runoff = 1.52 cfs @ 12.06 hrs, Volume= 0.098 af, Depth= 0.48"

Area	(ac) C	N Des	cription								
0.	.000	98 Untr	Untreated existing impervious, HSG A								
0.	.000		Untreated existing impervious, HSG C								
0.	051		Untreated existing impervious, HSG D								
0.	.000		Existing impervious to be treated as offset, HSG D								
0.	000				azed, HSG A						
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0.	.000	30 Exis	ting Wood	s, Good, H	SG A						
0.	000	70 Exis	ting Wood	s, Good, H	SG C						
0.	928	77 Exis	ting Wood	s, Good, H	SG D						
0.	000	70 Prop	osed Woo	ds, Good,	HSG C						
0.	259	77 Prop	osed Woo	ds, Good,	HSG D						
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG C						
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG D						
					ervious, HSG C						
					ervious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
			Proposed developed meadow to be treated, HSG C								
			·								
		71 Proposed meadow, ski trail, HSG C									
				dow, ski tra							
				dow, ski lif							
		•		dow, ski lif	t, HSG D						
		•	ghted Aver	•							
	389		1% Pervio								
0.	051	2.09	% Impervi	ous Area							
_		٥.									
Tc	Length	Slope	Velocity	Capacity	Description						
(min)_	(feet)	(ft/ft)	(ft/sec)	(cfs)							
8.7	100	0.1000	0.19		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
1.0	130	0.1000	2.21		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
0.3	29	0.4100	1.60		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
1.6	105	0.1900	1.09		Shallow Concentrated Flow,						
	-	0.4005		4 4 5 -	Forest w/Heavy Litter Kv= 2.5 fps						
0.7	216	0.1000	4.96	14.88	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
12.3	580	Total									

2.9

440 Total

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Summary for Subcatchment 53S: WS 11A

Runoff = 5.77 cfs @ 11.93 hrs, Volume= 0.253 af, Depth= 1.16"

Area	(ac) C	N Des	cription								
0	.000	98 Untr	eated exis	ting imperv	ious, HSG A						
0.	.000	98 Untr	Untreated existing impervious, HSG C								
0.	.000	98 Untr	Jntreated existing impervious, HSG D								
0.			Existing impervious to be treated as offset, HSG D								
0.			ting meado	ow, non-gra	azed, HSG A						
					azed, HSG C						
					azed, HSG D						
				s, Good, H							
				s, Good, H							
				s, Good, H							
				ds, Good, l							
				ds, Good, l							
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					dow, non-grazed, HSG C						
		78 Proposed developed meadow, non-grazed, HSG D									
					dow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lift							
_				dow, ski lift	., NSG D						
			ghted Aver								
	.906		7% Pervio								
1.	.700	65.2	3% imper	/ious Area							
т.	ما المرسم ا	Clana	\/alaaitu	Composity	Decembring						
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Object Floor						
0.7	100	0.1000	2.27		Sheet Flow,						
0.0	04	0.4000	4.00		Smooth surfaces n= 0.011 P2= 2.40"						
0.2	21	0.1000	1.66		Sheet Flow,						
0.4	70	0.2700	0.40		Smooth surfaces n= 0.011 P2= 2.40"						
0.1	70	0.3700	9.12		Shallow Concentrated Flow,						
4.0	040	0.0000	0.00	6.65	Grassed Waterway Kv= 15.0 fps						
1.9	249	0.0200	2.22	6.65	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
	4.40	T . 4 . 1			n= 0.069 Riprap, 6-inch						

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Summary for Subcatchment 54S: WS 11B

Runoff = 2.77 cfs @ 11.98 hrs, Volume= 0.135 af, Depth= 0.65"

Area	(ac)	CN	Desc	cription								
0.	.000	98	Untre	eated exis	ting imperv	ious, HSG A						
0.	.000	98	Untre	Untreated existing impervious, HSG C								
0.	.000	98	Untre	Untreated existing impervious, HSG D								
0.	.000	98	Exist	Existing impervious to be treated as offset, HSG D								
0.	.000	30	Exist	ting meado	ow, non-gra	azed, HSG A						
0.	.000	71	Exist	ting meado	ow, non-gra	azed, HSG C						
0.	.000	78	Exist	ting meado	ow, non-gra	azed, HSG D						
0.	.000	30	Exist	ing Wood	s, Good, H	SG A						
0.	.000	70	Exist	ing Wood	s, Good, H	SG C						
0.	.000	77	Exist	ing Wood	s, Good, H	SG D						
0.	.000	70	Prop	osed Woo	ds, Good,	HSG C						
0.	.000	77	Prop	osed Woo	ds, Good,	HSG D						
	.772	98				e treated, HSG C						
0.	.167	98	Prop	osed impe	ervious to b	e treated, HSG D						
0.	.000	98				rvious, HSG C						
	.000	98				rvious, HSG D						
	.000	71		Proposed developed meadow, non-grazed, HSG C								
	.000	78		Proposed developed meadow, non-grazed, HSG D								
	.233	71		Proposed developed meadow to be treated, HSG C								
	.316	78				dow to be treated, HSG D						
	.000	71			dow, ski tra							
	.000	78			dow, ski tra							
	.000	71			dow, ski lift							
0.	.000	78	Prop	osed mea	dow, ski lift	t, HSG D						
2.	.488	82	Weig	hted Aver	age							
1.	.549		62.2	6% Pervio	us Area							
0.	.939		37.7	4% Imperv	/ious Area							
Tc	Lengt		Slope	Velocity	Capacity	Description						
(min)	(feet	t)	(ft/ft)	(ft/sec)	(cfs)							
4.8	10	0 0.	.4400	0.35		Sheet Flow,						
						Grass: Dense n= 0.240 P2= 2.40"						
0.1	3	6 0.	.4400	4.64		Shallow Concentrated Flow,						
						Short Grass Pasture Kv= 7.0 fps						
1.3	24	6 0.	.0200	3.24	38.86	Trap/Vee/Rect Channel Flow,						
						Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00'						
						n= 0.069 Riprap, 6-inch						
6.2	38	2 T	otal									

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Summary for Subcatchment 55S: WS 12

Runoff = 1.89 cfs @ 12.06 hrs, Volume= 0.123 af, Depth= 0.48"

Area	(ac) C	N Des	cription								
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A						
0.			Untreated existing impervious, HSG C								
0.	.035		Untreated existing impervious, HSG D								
0.			Existing impervious to be treated as offset, HSG D								
0.	.000				azed, HSG A						
0.	.000	71 Exis	ting meado	ow, non-gra	azed, HSG C						
0.	.000	78 Exis	ting meado	ow, non-gra	azed, HSG D						
0.	.000	30 Exis	ting Wood	s, Good, H	SG A						
0.	.000	70 Exis	ting Wood	s, Good, H	SG C						
1.	.747	77 Exis	ting Wood	s, Good, H	SG D						
0.	.000	70 Prop	osed Woo	ds, Good,	HSG C						
0.			osed Woo	ds, Good,	HSG D						
					e treated, HSG C						
					oe treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
				•	adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
				•	adow to be treated, HSG C						
			Proposed developed meadow to be treated, HSG D								
			Proposed meadow, ski trail, HSG C								
				dow, ski tra							
				dow, ski lif							
		•		dow, ski lif	t, HSG D						
		•	ghted Aver	•							
	.017		5% Pervio								
0.	.035	1.15	% Impervi	ous Area							
-	141.	01	V/-1	0	December 6						
Tc	Length	Slope	Velocity	Capacity	Description						
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)							
9.5	100	0.0800	0.18		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
1.5	174	0.0800	1.98		Shallow Concentrated Flow,						
0.4	4-	0.0500			Short Grass Pasture Kv= 7.0 fps						
0.1	17	0.3500	4.14		Shallow Concentrated Flow,						
0.0	00.4	0.4700	0.05	40 77	Short Grass Pasture Kv= 7.0 fps						
0.3	204	0.1700	9.95	49.77	Trap/Vee/Rect Channel Flow,						
					Bot.W=4.00' D=1.00' Z= 1.0 '/' Top.W=6.00'						
4.0	045	0.0700	4 4 5	40.45	n= 0.050						
1.0	245	0.0700	4.15	12.45	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
12.4	7.10	Total			n= 0.069						

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Summary for Subcatchment 56S: WS 12A

Runoff = 1.29 cfs @ 11.94 hrs, Volume= 0.056 af, Depth= 0.48"

Area	(ac)	CN	Desc	cription							
0.	.000	98	Untro	eated exis	ting imperv	rious, HSG A					
0.	.000	98		Untreated existing impervious, HSG C							
0.	.000	98	Untr	Untreated existing impervious, HSG D							
0.	.000	98	Exist	ting imper	vious to be	treated as offset, HSG D					
0.	.000	30	Exist	ting meado	ow, non-gra	azed, HSG A					
0.	.000	71	Exist	ting mead	ow, non-gra	azed, HSG C					
0.	.000	78	Exist	ting mead	ow, non-gra	azed, HSG D					
0.	.000	30	Exist	ting Wood	s, Good, H	SG A					
0.	.000	70			s, Good, H						
0.	.777	77	Exist	ting Wood	s, Good, H	SG D					
0.	.000	70	Prop	osed Woo	ds, Good,	HSG C					
0.	.000	77	Prop	osed Woo	ds, Good,	HSG D					
	.000	98	Prop	osed impe	ervious to b	e treated, HSG C					
0.	.000	98	Prop	osed impe	ervious to b	e treated, HSG D					
	.012	98				rvious, HSG C					
	.025	98				rvious, HSG D					
	.002	71				ndow, non-grazed, HSG C					
	0.576 78 Proposed developed meadow, non-grazed, HSG D										
	.000	71				dow to be treated, HSG C					
	.000	78				ndow to be treated, HSG D					
	.000	71			dow, ski tra						
	.000	78			dow, ski tra						
	.000	71			dow, ski lift						
0.	.000	78	Prop	osed mea	dow, ski lif	t, HSG D					
	.392	78	Weig	ghted Aver	age						
	.355			4% Pervio							
0.	.037		2.66	% Impervi	ous Area						
Tc	Lengtl		Slope	Velocity	Capacity	Description					
(min)	(feet	:)	(ft/ft)	(ft/sec)	(cfs)						
0.4	33	3 0.0	0600	1.48		Sheet Flow,					
						Smooth surfaces n= 0.011 P2= 2.40"					
1.4	87	7 0.	1600	1.00		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
0.3	254	4 0.	1800	12.62	104.09	Trap/Vee/Rect Channel Flow,					
						Bot.W=4.00' D=1.50' Z= 1.0 '/' Top.W=7.00'					
						n= 0.050 Mountain streams w/large boulders					
2.2	374	4 To	otal								

Summary for Subcatchment 57S: WS 12B

Runoff = 0.56 cfs @ 12.10 hrs, Volume= 0.048 af, Depth= 0.29"

Area	(ac) (CN Des	cription								
0.	.000	98 Unt	reated exis	ting imperv	rious, HSG A						
0.	.000				rious, HSG C						
0.	.000	98 Unt	Jntreated existing impervious, HSG D								
0.	.000	98 Exis	existing impervious to be treated as offset, HSG D								
0.	.000	30 Exis	sting mead	ow, non-gra	azed, HSG A						
0.	.000	71 Exis	sting mead	ow, non-gra	azed, HSG C						
0.	.000	78 Exis	sting mead	ow, non-gra	azed, HSG D						
0.	.000	30 Exis	sting Wood	s, Good, H	SG A						
0.	.082	70 Exis	sting Wood	s, Good, H	SG C						
0.	.000	77 Exis	sting Wood	s, Good, H	SG D						
0.	.000			ods, Good,							
				ods, Good,							
					oe treated, HSG C						
0.					pe treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					adow, non-grazed, HSG C						
			Proposed developed meadow, non-grazed, HSG D								
	0.000 71 Proposed developed meadow to be treated, HSG C										
	0.000 78 Proposed developed meadow to be treated, HSG D										
				idow, ski tra							
				idow, ski tra							
				idow, ski lif							
				idow, ski lif	t, HSG D						
			ghted Ave								
	.923	_	17% Pervio								
0.	.050	2.53	3% Impervi	ous Area							
_		01	\		B						
Tc	Length		Velocity	Capacity	Description						
(min)	(feet)	, ,	(ft/sec)	(cfs)							
7.2	100	0.1600	0.23		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
1.6	304	0.2000	3.13		Shallow Concentrated Flow,						
	00-	0.0000	4.65		Short Grass Pasture Kv= 7.0 fps						
4.3	307	0.2300	1.20		Shallow Concentrated Flow,						
^ -	00	0.0000	0.00	0.05	Forest w/Heavy Litter Kv= 2.5 fps						
0.7	90	0.0200	2.22	6.65	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
10.6	201	T			n= 0.069 Riprap, 6-inch						
13.8	801	Total									

Summary for Subcatchment 58S: WS 12C

Runoff = 1.68 cfs @ 12.10 hrs, Volume= 0.124 af, Depth= 0.48"

Area	(ac)	CN De	escription								
0.	.000	98 Ur	Untreated existing impervious, HSG A								
0.	.000	98 Ur	Jntreated existing impervious, HSG C								
0.	.000	98 Ur	Jntreated existing impervious, HSG D								
0.	.000	98 Ex	Existing impervious to be treated as offset, HSG D								
0.	.000	30 Ex	isting mead	ow, non-gra	azed, HSG A						
0.	.000	71 Ex	isting mead	ow, non-gra	azed, HSG C						
0.	.000	78 Ex	isting mead	ow, non-gra	azed, HSG D						
0.	.000		isting Wood	ls, Good, H	SG A						
0.	.595	70 Ex	isting Wood	ls, Good, H	SG C						
0.	.000		isting Wood								
	.366		oposed Woo	ods, Good,	HSG C						
	.000		oposed Woo								
	.000				pe treated, HSG C						
	.000				pe treated, HSG D						
	.817				ervious, HSG C						
	.000				ervious, HSG D						
	1.292 71 Proposed developed meadow, non-grazed, HSG C										
	0.000 78 Proposed developed meadow, non-grazed, HSG D										
	0.000 71 Proposed developed meadow to be treated, HSG C										
	.000				adow to be treated, HSG D						
	.000		oposed mea								
	.000		oposed mea								
	.000		oposed mea								
	.000		oposed mea	•	t, HSG D						
	.070		eighted Ave								
	.253		.39% Pervio								
0.	.817	26	.61% Imper	vious Area							
т.	1 41-	Ola	- \/-l:t	0:	Description						
Tc	Length				Description						
(min)	(feet)			(cfs)							
10.8	50	0.160	0.08		Sheet Flow,						
					Woods: Dense underbrush n= 0.800 P2= 2.40"						
3.1	185	0.160	0 1.00		Shallow Concentrated Flow,						
0.4	053		0 40.04	44.00	Forest w/Heavy Litter Kv= 2.5 fps						
0.4	257	0.200	0 10.34	41.36	Trap/Vee/Rect Channel Flow,						
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'						
4 4	400	0.050	0 405		n= 0.050 Mountain streams w/large boulders						
1.4	103	0.250	0 1.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps						
453		T-4-1			i orest witheavy Litter INV- 2.3 Ips						
15.7	595	Total									

Summary for Subcatchment 59S: WS 12D

Runoff = 1.44 cfs @ 12.06 hrs, Volume= 0.092 af, Depth= 0.60"

Area	(ac)	CN	Desc	cription							
0.	000	98	Untre	eated exis	ting imperv	rious, HSG A					
0.	000	98	Untre	Jntreated existing impervious, HSG C							
0.	000	98	Untre	Jntreated existing impervious, HSG D							
0.	000	98	Exist	ing imper	ious to be	treated as offset, HSG D					
0.	000	30	Exist	ing meado	ow, non-gra	azed, HSG A					
	000	71				azed, HSG C					
	000	78				azed, HSG D					
	000	30		0	s, Good, H						
	000	70			s, Good, H						
	208	77			s, Good, H						
	000	70			ds, Good,						
	000	77			ds, Good,						
	233	98				e treated, HSG C					
	253	98				e treated, HSG D					
	000	98				rvious, HSG C					
	000	98				rvious, HSG D					
	000	71		Proposed developed meadow, non-grazed, HSG C							
	000	78		Proposed developed meadow, non-grazed, HSG D							
	613	71				idow to be treated, HSG C					
	516	78				dow to be treated, HSG D					
	000	71			dow, ski tra						
	000	78			dow, ski tra						
	000	71 78			dow, ski lift						
	000				dow, ski lift	I, NOG D					
	823	81		hted Aver							
	337			4% Pervio							
U.	486		26.6	o% imperv	ious Area						
Тс	Lengt	h S	Slope	Velocity	Capacity	Description					
(min)	(feet		(ft/ft)	(ft/sec)	(cfs)	Description					
10.9	4		1500	0.07	(0.0)	Sheet Flow,					
10.0	7	J 0.	.000	0.01		Woods: Dense underbrush n= 0.800 P2= 2.40"					
1.4	8	3 0	1500	0.97		Shallow Concentrated Flow,					
	0	J J.	. 500	0.07		Forest w/Heavy Litter Kv= 2.5 fps					
8.0	18	4 0	2700	3.64		Shallow Concentrated Flow,					
0.0				3.01		Short Grass Pasture Kv= 7.0 fps					
13.1	31	6 To	otal			·					

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Summary for Subcatchment 60S: WS 12E

Runoff = 0.93 cfs @ 12.07 hrs, Volume= 0.060 af, Depth= 0.70"

Area	(ac) C	CN Des	cription								
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A						
0.	.000		Jntreated existing impervious, HSG C								
0.			Jntreated existing impervious, HSG D								
			Existing impervious to be treated as offset, HSG D								
					azed, HSG A						
					azed, HSG C						
					azed, HSG D						
			•	s, Good, H							
				s, Good, H							
				s, Good, H							
				ds, Good,							
				ds, Good,							
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					dow, non-grazed, HSG C						
			Proposed developed meadow, non-grazed, HSG D								
		71 Proposed developed meadow to be treated, HSG C									
					dow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lift							
				dow, ski lift	t, HSG D						
		,	ghted Aver	•							
	.731		0% Pervio								
0.	.300	29.1	0% Imper	vious Area							
_											
Tc	Length		Velocity	Capacity	Description						
(min)_	(feet)		(ft/sec)	(cfs)							
10.8	61	0.2400	0.09		Sheet Flow,						
					Woods: Dense underbrush n= 0.800 P2= 2.40"						
1.1	81	0.2400	1.22		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
1.2	101	0.3200	1.41		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
8.0	165	0.2400	3.43		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
13.9	408	Total									

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Summary for Subcatchment 61S: WS 12F

Runoff = 1.99 cfs @ 12.05 hrs, Volume= 0.125 af, Depth= 0.52"

Area	(ac) C	N Des	cription								
0.	.000	98 Untr	Intreated existing impervious, HSG A								
0.	.000		ntreated existing impervious, HSG C								
0.	.000	98 Untr	ntreated existing impervious, HSG D								
0.	.000	98 Exis	ting imper	vious to be	treated as offset, HSG D						
0.	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A						
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0.	.000	30 Exis	ting Wood	s, Good, H	SG A						
0.	.000	70 Exis	ting Wood	s, Good, H	SG C						
1.	.236	77 Exis	ting Wood	s, Good, H	SG D						
0.	.064			ds, Good,							
				ds, Good,							
0.			osed impe	ervious to b	oe treated, HSG C						
0.					oe treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lif							
				dow, ski lif	t, HSG D						
			ghted Avei								
	.548		8% Pervio								
0.	.322	11.2	2% Imper	vious Area							
_		01			B						
Tc	Length		Velocity	Capacity	Description						
<u>(min)</u>	(feet)	. ,	(ft/sec)	(cfs)							
7.4	100	0.1500	0.23		Sheet Flow,						
			–		Grass: Dense n= 0.240 P2= 2.40"						
2.7	185	0.2100	1.15		Shallow Concentrated Flow,						
0.4	0.5-		40.04	44.00	Forest w/Heavy Litter Kv= 2.5 fps						
0.4	257	0.2000	10.34	41.36	Trap/Vee/Rect Channel Flow,						
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'						
4 4	400	0.0500	4.05		n= 0.050 Mountain streams w/large boulders						
1.4	103	0.2500	1.25		Shallow Concentrated Flow,						
44.0	0.45	T.4.1			Forest w/Heavy Litter Kv= 2.5 fps						
11.9	645	Total									

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Summary for Subcatchment 62S: WS 12G

Runoff = 2.27 cfs @ 12.18 hrs, Volume= 0.216 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 1-Year Rainfall=2.00"

Ar	ea (a	ac) C	N Desc	cription									
	0.0	00 9	98 Untr	eated exis	ting imperv	ious, HSG A							
	0.0	00 9	98 Untr	Intreated existing impervious, HSG C									
	0.0	00 9	98 Untr	Intreated existing impervious, HSG D									
	0.0			existing impervious to be treated as offset, HSG D									
	0.0			ting meado	ow, non-gra	azed, HSG A							
	0.0			ting meado	ow, non-gra	azed, HSG C							
	0.0			ting meado	ow, non-gra	azed, HSG D							
	0.0			ting Wood:	s, Good, H	SG A							
	0.0			ting Wood	s, Good, H	SG C							
	1.43			ting Wood:	s, Good, H	SG D							
	0.6				ds, Good, l								
	0.34	40 7	77 Prop	osed Woo	ds, Good, l	HSG D							
	0.0	00 9	98 Prop	osed impe	ervious to b	e treated, HSG C							
	0.0					e treated, HSG D							
	0.0					rvious, HSG C							
	0.5					rvious, HSG D							
	0.0					dow, non-grazed, HSG C							
	1.14					dow, non-grazed, HSG D							
	0.0				•	dow to be treated, HSG C							
	0.0					dow to be treated, HSG D							
	0.9				dow, ski tra								
	0.6				dow, ski tra								
	0.0				dow, ski lift								
	0.0				dow, ski lift	I, HSG D							
	5.78	-		ghted Aver									
	5.2			7% Pervio									
	0.50	05	8.73	% Impervi	ous Area								
			0.1			D 1.0							
		Length	Slope	Velocity	Capacity	Description							
(mi		(feet)	(ft/ft)	(ft/sec)	(cfs)								
10	.7	142	0.1200	0.22		Sheet Flow,							
						Grass: Dense n= 0.240 P2= 2.40"							
1	.9	277	0.1200	2.42		Shallow Concentrated Flow,							
=						Short Grass Pasture Kv= 7.0 fps							
8	.9	569	0.1800	1.06		Shallow Concentrated Flow,							
_	•		0.0000		40.00	Forest w/Heavy Litter Kv= 2.5 fps							
C	.8	222	0.0800	4.74	18.96	Trap/Vee/Rect Channel Flow,							
						Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'							
			T.4.1			n= 0.069 Riprap, 6-inch							

22.3 1,210 Total

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Summary for Subcatchment 63S: WS 13

Runoff = 0.31 cfs @ 12.04 hrs, Volume= 0.018 af, Depth= 0.65"

Area	(ac) (CN Des	cription								
0.	000	98 Unt	ntreated existing impervious, HSG A								
0.	000	98 Unt	Intreated existing impervious, HSG C								
0.	074	98 Unt	ntreated existing impervious, HSG D								
0.			sting imper	vious to be	treated as offset, HSG D						
0.	000	30 Exis	sting mead	ow, non-gra	azed, HSG A						
					azed, HSG C						
					azed, HSG D						
			sting Wood								
			sting Wood								
			sting Wood								
			posed Woo								
			posed Woo								
					pe treated, HSG C						
					pe treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
			posed mea								
			posed mea								
			posed mea								
			posed mea		t, HSG D						
			ghted Aver								
	264	_	11% Pervio								
0.	074	21.8	39% Imper	/ious Area							
Тс	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)		(ft/sec)	(cfs)	Becompact						
9.6	36	0.1100	0.06		Sheet Flow,						
					Woods: Dense underbrush n= 0.800 P2= 2.40"						
1.9	254	0.0200	2.22	6.65	Trap/Vee/Rect Channel Flow, ditch						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.069						
11.5	290	Total									

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Summary for Subcatchment 64S: WS 13A

Runoff = 1.59 cfs @ 12.09 hrs, Volume= 0.115 af, Depth= 0.48"

Area	(ac)	CN	l Desc	cription							
0.	.000	98	3 Untr	Jntreated existing impervious, HSG A							
0	.000	98		Intreated existing impervious, HSG C							
0	.000	98	3 Untr	eated exis	ting imperv	ious, HSG D					
0	.000	98	B Exist	ting imper	vious to be	treated as offset, HSG D					
0.	.000	30) Exist	ting mead	ow, non-gra	azed, HSG A					
0.	.000	71	l Exist	ting mead	ow, non-gra	azed, HSG C					
0.	.000	78	B Exist	ting mead	ow, non-gra	azed, HSG D					
0.	.000	30) Exist	ting Wood	s, Good, H	SG A					
0.	.000	70) Exist	ting Wood	s, Good, H	SG C					
0.	.353	77	⁷ Exist	ting Wood	s, Good, H	SG D					
0.	.000	70) Prop	osed Woo	ds, Good, l	HSG C					
0	.301	77		osed Woo	ds, Good, l	HSG D					
	.000	98				e treated, HSG C					
	.000	98				e treated, HSG D					
	.000	98				rvious, HSG C					
	.000	98				rvious, HSG D					
	.000	71				dow, non-grazed, HSG C					
	0.000 78 Proposed developed meadow, non-grazed, HSG D										
	.000	71				dow to be treated, HSG C					
	.695	78			•	dow to be treated, HSG D					
	.000	71			dow, ski tra						
	.500	78			dow, ski tra						
	.000	71			dow, ski lift						
_	.000	78			dow, ski lift	t, HSG D					
	.849	78		ghted Aver	•						
2	.849		100.	00% Pervi	ous Area						
_											
Tc	Leng		Slope	Velocity	Capacity	Description					
(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)						
9.0	10	00	0.0900	0.18		Sheet Flow,					
						Grass: Dense n= 0.240 P2= 2.40"					
1.4	21	11	0.1300	2.52		Shallow Concentrated Flow,					
						Short Grass Pasture Kv= 7.0 fps					
4.7	30)1	0.1800	1.06		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
15.1	61	12	Total								

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Summary for Subcatchment 65S: WS 13B

Runoff = 2.08 cfs @ 11.91 hrs, Volume= 0.088 af, Depth= 0.70"

Area	(ac) C	N Des	cription								
0	.000	98 Untr	Intreated existing impervious, HSG A								
0	.000	98 Untr	ntreated existing impervious, HSG C								
0	.000	98 Untr	ntreated existing impervious, HSG D								
					treated as offset, HSG D						
					azed, HSG A						
					azed, HSG C						
					azed, HSG D						
				s, Good, H							
				s, Good, H							
				s, Good, H							
				ds, Good,							
				ds, Good,							
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C adow to be treated, HSG D						
				dow, ski tra							
				idow, ski tra idow, ski tra							
				dow, ski lift							
				dow, ski lif							
			ghted Aver		i, 1100 D						
	.001	,	4% Pervio								
	.524			vious Area							
U	.027	04.0	o 70 iiiipci i	nous Arca							
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Boomphon						
0.8	100	, ,	1.97	(0.0)	Sheet Flow,						
0.0	100	0.0700	1.31		Smooth surfaces n= 0.011 P2= 2.40"						
0.1	25	0.0700	5.37		Shallow Concentrated Flow,						
0.1	20	0.0700	0.07		Paved Kv= 20.3 fps						
0.1	88	0.1600	28.80	90.49	Pipe Channel,						
0.1	00	0.1000	20.00	00.40	24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'						
					n= 0.013 Corrugated PE, smooth interior						
0.3	118	0.2000	7.01	21.04	Trap/Vee/Rect Channel Flow,						
0.0		5.2000			Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
1.3	331	Total									
1.5	551	i Otai									

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Summary for Subcatchment 66S: WS 13C

Runoff = 2.29 cfs @ 12.01 hrs, Volume= 0.124 af, Depth= 0.60"

Area	(ac) C	N Des	cription								
0.	.000	98 Untr	Intreated existing impervious, HSG A								
0.	.000		ntreated existing impervious, HSG C								
0.	.000	98 Untr	ntreated existing impervious, HSG D								
0.	.000	98 Exis	ting imper	vious to be	treated as offset, HSG D						
0.	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A						
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
			ting Wood	s, Good, H	SG A						
				s, Good, H							
				s, Good, H							
				ods, Good,							
				ds, Good,							
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					dow, non-grazed, HSG C						
					dow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
				idow, ski tra							
				idow, ski tra							
				idow, ski lif							
				idow, ski lif	I, HSG D						
			ghted Ave								
	.569		5% Pervio								
U.	.900	36.4	5% imper	vious Area							
Тс	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Description						
7.8	100	0.1300	0.21	(013)	Chaot Flow						
1.0	100	0.1300	0.21		Sheet Flow, Grass: Dense n= 0.240 P2= 2.40"						
0.3	42	0.1300	2.52		Shallow Concentrated Flow,						
0.3	42	0.1300	2.32		Short Grass Pasture Kv= 7.0 fps						
0.4	170	0.1800	6.65	19.96	Trap/Vee/Rect Channel Flow,						
0.4	170	0.1000	0.03	19.90	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
0.4	97	0.3100	3.90		Shallow Concentrated Flow,						
0.4	31	0.0100	0.00		Short Grass Pasture Kv= 7.0 fps						
8.9	409	Total			Chart Grade i detaile itt 7.0 ipe						
0.0	-100	iotai									

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Summary for Subcatchment 67S: WS 14

Runoff = 0.67 cfs @ 12.10 hrs, Volume= 0.050 af, Depth= 0.48"

Area	(ac) C	N Des	cription									
0.	.000	98 Untr	Intreated existing impervious, HSG A									
0.	.000		Intreated existing impervious, HSG C									
0.	.041	98 Untr	Intreated existing impervious, HSG D									
0.	.000		existing impervious to be treated as offset, HSG D									
0.	.000	30 Exis	Existing meadow, non-grazed, HSG A									
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C							
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D							
0.	.000	30 Exis	ting Wood	s, Good, H	SG A							
0.	.000	70 Exis	ting Wood	s, Good, H	SG C							
0.	.657	77 Exis	ting Wood	s, Good, H	SG D							
0.	.000	70 Prop	osed Woo	ds, Good,	HSG C							
0.	.170	77 Prop	osed Woo	ds, Good,	HSG D							
0.	.000	98 Prop	osed impe	ervious to b	e treated, HSG C							
			osed impe	ervious to b	e treated, HSG D							
				•	rvious, HSG C							
					rvious, HSG D							
					ndow, non-grazed, HSG C							
					dow, non-grazed, HSG D							
					ndow to be treated, HSG C							
					adow to be treated, HSG D							
				dow, ski tra								
				dow, ski tra								
				dow, ski lift								
				dow, ski lif	I, H5G D							
			ghted Aver									
	.197		9% Pervio									
U.	.041	3.31	% Impervi	ous Area								
Tc	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	•							
7.6	81	0.0900	0.18	, ,	Sheet Flow,							
					Grass: Dense n= 0.240 P2= 2.40"							
0.6	28	0.0900	0.75		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
0.4	44	0.5000	1.77		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
3.1	192	0.1700	1.03		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
4.0	209	0.1200	0.87		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
0.3	70	0.0400	4.33	12.98	Trap/Vee/Rect Channel Flow,							
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
					n= 0.050							

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16.0 624 Total

Summary for Subcatchment 68S: WS 15

Runoff = 0.62 cfs @ 12.08 hrs, Volume= 0.045 af, Depth= 0.41"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.017	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.015	70	Existing Woods, Good, HSG C
0.776	77	Existing Woods, Good, HSG D
0.110	70	Proposed Woods, Good, HSG C
0.042	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.006	71	Proposed developed meadow, non-grazed, HSG C
0.096	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.244	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.306	76	Weighted Average
1.289		98.70% Pervious Area
0.017		1.30% Impervious Area

Type II 24-hr 1-Year Rainfall=2.00" Printed 9/24/2021

55310.01-West Mountain-PR

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	10.0	100	0.0700	0.17		Sheet Flow,
						Grass: Dense n= 0.240 P2= 2.40"
	0.6	69	0.0700	1.85		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	0.1	44	0.5000	4.95		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	0.2	170	0.1500	12.39	148.70	Trap/Vee/Rect Channel Flow,
						Bot.W=6.50' D=1.50' Z= 1.0 '/' Top.W=9.50'
						n= 0.050
	1.3	99	0.2400	1.22		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	1.3	99	0.2400	1.22		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.2	43	0.0900	4.70	14.11	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_						n= 0.069
	13.7	624	Total			

Summary for Subcatchment 69S: WS 15A

Runoff = 0.97 cfs @ 11.95 hrs, Volume= 0.048 af, Depth= 0.32"

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Area	(ac) (N Des	cription							
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A					
0.	000		Intreated existing impervious, HSG C							
0.	000	98 Untr	eated exis	ting imperv	rious, HSG D					
0.	000	98 Exis	ting imper	vious to be	treated as offset, HSG D					
0.	000	30 Exis	ting meado	ow, non-gra	azed, HSG A					
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C					
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
0.	000	30 Exis	ting Wood	s, Good, H	SG A					
1.	051	70 Exis	ting Wood	s, Good, H	SG C					
0.	000	77 Exis	ting Wood	s, Good, H	SG D					
0.	000	70 Prop	osed Woo	ds, Good,	HSG C					
0.	000	77 Prop	osed Woo	ds, Good,	HSG D					
0.	047	98 Prop	osed impe	ervious to b	pe treated, HSG C					
					pe treated, HSG D					
					ervious, HSG C					
					ervious, HSG D					
					adow, non-grazed, HSG C					
					adow, non-grazed, HSG D					
					adow to be treated, HSG C					
					adow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lif						
			osed mea	dow, ski lif	t, HSG D					
			ghted Aver							
	646	92.2	1% Pervio	us Area						
0.	139	7.79	% Impervi	ous Area						
Tc	Length		Velocity	Capacity	Description					
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)						
0.6	72	0.0800	1.94		Sheet Flow,					
					Smooth surfaces n= 0.011 P2= 2.40"					
2.3	155	0.2100	1.15		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.2	149	0.1200	11.08	133.00	Trap/Vee/Rect Channel Flow,					
					Bot.W=6.50' D=1.50' Z= 1.0 '/' Top.W=9.50'					
					n= 0.050 Mountain streams w/large boulders					
3.1	376	Total								

Summary for Subcatchment 70S: WS 15B

Runoff = 1.04 cfs @ 12.10 hrs, Volume= 0.087 af, Depth= 0.32"

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Area	(ac) (N Des	cription								
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A						
0.	000		Intreated existing impervious, HSG C								
0.	000	98 Untr	Intreated existing impervious, HSG D								
0.	000	98 Exis	ting imper	vious to be	treated as offset, HSG D						
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A						
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
			ting mead	ow, non-gra	azed, HSG D						
				s, Good, H							
0.	688	70 Exis	ting Wood	s, Good, H	SG C						
0.	000	77 Exis	ting Wood	s, Good, H	SG D						
0.	075	70 Prop	osed Woo	ds, Good,	HSG C						
				ds, Good,							
					pe treated, HSG C						
					pe treated, HSG D						
					ervious, HSG C						
					ervious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lif							
				dow, ski lif	t, HSG D						
			ghted Aver								
	929		2% Pervio								
0.	321	9.88	% Impervi	ous Area							
_											
Tc	Length		Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
7.0	100	0.1700	0.24		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
7.0	502	0.2300	1.20		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
0.3	87	0.0700	4.15	12.45	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
14.3	689	Total									

Summary for Subcatchment 71S: WS 15C

Runoff = 0.30 cfs @ 12.32 hrs, Volume= 0.036 af, Depth= 0.48"

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Area	(ac) (CN Des	cription									
0	.000	98 Untr	Jntreated existing impervious, HSG A									
0	.000		Intreated existing impervious, HSG C									
0	.000		Intreated existing impervious, HSG D									
0	.000		Existing impervious to be treated as offset, HSG D									
0	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A							
0	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C							
0	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D							
0	.000	30 Exis	ting Wood	s, Good, H	SG A							
0	.000	70 Exis	ting Wood	s, Good, H	SG C							
0	.000	77 Exis	ting Wood	s, Good, H	SG D							
0	.010	70 Prop	osed Woo	ds, Good,	HSG C							
			osed Woo	ds, Good,	HSG D							
					pe treated, HSG C							
					pe treated, HSG D							
					ervious, HSG C							
					ervious, HSG D							
					adow, non-grazed, HSG C							
					adow, non-grazed, HSG D							
					adow to be treated, HSG C							
					adow to be treated, HSG D							
				dow, ski tra								
				dow, ski tra								
				dow, ski lif								
				dow, ski lif	t, HSG D							
			ghted Aver									
	.664	_	0% Pervio									
0	.219	24.8	0% Imper	vious Area								
_		0.1			B							
Tc	Length		Velocity	Capacity	Description							
<u>(min)</u>	(feet)		(ft/sec)	(cfs)								
31.0	66	0.0200	0.04		Sheet Flow,							
					n= 0.800 P2= 2.40"							
0.1	41	0.4400	4.64		Shallow Concentrated Flow,							
	400	0.4700	0.00		Short Grass Pasture Kv= 7.0 fps							
0.6	108	0.1700	2.89		Shallow Concentrated Flow,							
0.7	444	0.0400	0.04		Short Grass Pasture Kv= 7.0 fps							
0.7	141	0.2100	3.21		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
32.4	356	Total										

Summary for Subcatchment 72S: WS 15D

Runoff = 0.21 cfs @ 12.00 hrs, Volume= 0.012 af, Depth= 0.32"

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Area	(ac) (CN De	scription							
0.	000	98 Un	reated exis	ting imperv	rious, HSG A					
0.	000	98 Un	Intreated existing impervious, HSG C							
0.	000	98 Un	Jntreated existing impervious, HSG D							
0.	000	98 Exi	sting imper	ious to be	treated as offset, HSG D					
0.	000	30 Exi	sting mead	ow, non-gra	azed, HSG A					
			sting mead	ow, non-gra	azed, HSG C					
0.			sting mead	ow, non-gra	azed, HSG D					
0.			sting Wood							
0.	000		sting Wood							
0.	000	77 Exi	sting Wood	s, Good, H	SG D					
0.	038	70 Pro	posed Woo	ds, Good,	HSG C					
0.			posed Woo	ds, Good,	HSG D					
0.			posed impe	ervious to b	e treated, HSG C					
					e treated, HSG D					
					rvious, HSG C					
					rvious, HSG D					
					idow, non-grazed, HSG C					
					idow, non-grazed, HSG D					
					dow to be treated, HSG C					
					dow to be treated, HSG D					
			posed mea							
			posed mea							
			posed mea							
0.	000	78 Pro	posed mea	dow, ski lift	t, HSG D					
			ighted Aver							
	412	90.	75% Pervio	us Area						
0.	042	9.2	5% Impervi	ous Area						
Тс	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	•		(cfs)	•					
6.0	43	0.5100		•	Sheet Flow,					
					n= 0.800 P2= 2.40"					
0.2	68	0.5100	5.00		Shallow Concentrated Flow,					
					Short Grass Pasture Kv= 7.0 fps					
6.2	111	Total								

Summary for Subcatchment 73S: WS 15E

Runoff = 0.95 cfs @ 11.98 hrs, Volume= 0.046 af, Depth= 0.70"

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Area	(ac) C	N Des	cription									
0.	.000	98 Untr	Untreated existing impervious, HSG A									
					rious, HSG C							
0.	.000		Jntreated existing impervious, HSG D									
0.	.000		Existing impervious to be treated as offset, HSG D									
0.	000		Existing meadow, non-grazed, HSG A									
0.	000	71 Exis	ting meado	ow, non-gra	azed, HSG C							
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D							
0.	.000	30 Exis	ting Wood	s, Good, H	SG A							
0.	000	70 Exis	ting Wood	s, Good, H	SG C							
0.	000	77 Exis	ting Wood	s, Good, H	SG D							
				ds, Good,								
				ds, Good,								
					e treated, HSG C							
					e treated, HSG D							
					rvious, HSG C							
					rvious, HSG D							
				•	adow, non-grazed, HSG C							
					adow, non-grazed, HSG D							
				•	adow to be treated, HSG C							
					adow to be treated, HSG D							
				dow, ski tra	· ·							
				dow, ski tra dow, ski lift								
				dow, ski lift dow, ski lift								
					I, 1130 D							
	.794 6 .566	•	ghted Aver 8% Pervio									
	228			vious Area								
0.	220	20.7	2 /0 IIIIperv	vious Alea								
Тс	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Bosonphon							
4.0	21	0.3300	0.09	(0.0)	Sheet Flow,							
7.0	21	0.0000	0.03		n= 0.800 P2= 2.40"							
1.0	286	0.0900	4.70	14.11	Trap/Vee/Rect Channel Flow, roadway ditch							
1.0	200	0.0000	4.70		Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
					n= 0.069 Riprap, 6-inch							
0.8	162	0.0500	3.51	10.52								
0.0		0.0000	0.0.		Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
					n= 0.069 Riprap, 6-inch							
0.3	68	0.0600	3.84	11.52	Trap/Vee/Rect Channel Flow, roadway ditch							
					Bot.W=2.00' D=1.00' Z= 1.0'/' Top.W=4.00'							
					n= 0.069 Riprap, 6-inch							
6.1	537	Total			• •							

Summary for Subcatchment 74S: WS 15F

Runoff = 2.79 cfs @ 12.02 hrs, Volume= 0.154 af, Depth= 0.60"

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Area	(ac)	CN Des	cription										
0.	.000	98 Unt	reated exis	rious, HSG A									
0.	000		Jntreated existing impervious, HSG C										
0.	000	98 Unt	Jntreated existing impervious, HSG D										
0.	000		Existing impervious to be treated as offset, HSG D										
0.	.000	30 Exis	Existing meadow, non-grazed, HSG A										
0.	.000	71 Exis	sting mead	ow, non-gra	azed, HSG C								
0.	.000	78 Exis	sting mead	ow, non-gra	azed, HSG D								
0.	.000	30 Exis	sting Wood	s, Good, H	SG A								
0.	.000	70 Exis	sting Wood	s, Good, H	SG C								
0.	227	77 Exis	sting Wood	s, Good, H	SG D								
	000			ds, Good,									
	418	77 Pro	posed Woo	ds, Good,	HSG D								
	000				e treated, HSG C								
	.000				e treated, HSG D								
	.001				rvious, HSG C								
	508				rvious, HSG D								
	014				idow, non-grazed, HSG C								
	020				idow, non-grazed, HSG D								
	000				dow to be treated, HSG C								
	000				dow to be treated, HSG D								
	011			dow, ski tra									
	852			dow, ski tra									
	000			dow, ski lift									
	000			dow, ski lift	t, HSG D								
	.051		ghted Aver	•									
	542		32% Pervio										
0.	509	16.6	68% Imper	vious Area									
_		٥.											
Tc	Length		Velocity	Capacity	Description								
<u>(min)</u>	(feet)		(ft/sec)	(cfs)									
7.6	100	0.1400	0.22		Sheet Flow,								
					Grass: Dense n= 0.240 P2= 2.40"								
0.5	83	0.1400	2.62		Shallow Concentrated Flow,								
					Short Grass Pasture Kv= 7.0 fps								
1.1	401	0.1400	5.87	17.60	Trap/Vee/Rect Channel Flow,								
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'								
					n= 0.069 Riprap, 6-inch								
9.2	584	Total											

Summary for Subcatchment 75S: WS 15G

Runoff = 2.08 cfs @ 12.06 hrs, Volume= 0.136 af, Depth= 0.48"

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Area	(ac)	CN	Desc	ription									
0.	000	98	Untre	eated exis	ting imperv	ious, HSG A							
0.	000	98	Untre	Jntreated existing impervious, HSG C									
0.	000	98	Untre	Jntreated existing impervious, HSG D									
0.	000	98	Exist	Existing impervious to be treated as offset, HSG D									
0.	000	30	Exist	ing mead	ow, non-gra	azed, HSG A							
	000	71				azed, HSG C							
0.	000	78	Exist	ing mead	ow, non-gra	azed, HSG D							
	000	30			s, Good, H								
	422	70			s, Good, H								
	000	77			s, Good, H								
0.	485	70			ds, Good, I								
	098	77			ds, Good, I								
	000	98				e treated, HSG C							
	000	98				e treated, HSG D							
	784	98				rvious, HSG C							
	042	98				rvious, HSG D							
	239	71				dow, non-grazed, HSG C							
	296	78				dow, non-grazed, HSG D							
	000	71				dow to be treated, HSG C							
	000	78				dow to be treated, HSG D							
	000	71			dow, ski tra								
	000	78			dow, ski tra								
	000	71			dow, ski lift								
	000	78			dow, ski lift	I, HSG D							
	366	78		hted Aver									
	540			6% Pervio									
0.	826		24.5	4% Imper	ious Area								
т.	1	L 0	N	\	0:	Description							
Tc	Lengt		lope	Velocity	Capacity	Description							
(min)	(feet		(ft/ft)	(ft/sec)	(cfs)	01 (5)							
10.7	5	4 0.	1900	0.08		Sheet Flow,							
0.0	2	4 0	1000	4.00		Woods: Dense underbrush n= 0.800 P2= 2.40"							
0.3	2	ı U.	1900	1.09		Shallow Concentrated Flow,							
1.5	54	4 O	1400	E 07	17.60	Forest w/Heavy Litter Kv= 2.5 fps							
1.5	54	4 U.	1400	5.87	17.60	Trap/Vee/Rect Channel Flow,							
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch							
10.5	64	O T-	tal			11- 0.000 Tripiap, 0-111011							
12.5	61	9 10	otal										

Summary for Subcatchment 76S: WS 15H

Runoff = 3.27 cfs @ 12.50 hrs, Volume= 0.581 af, Depth= 0.32"

CN Description

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Area (ac)

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Alea	(ac) C	IN DES	cription										
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A								
0.	.000				vious, HSG C								
0.	.000	98 Untr	Jntreated existing impervious, HSG D										
		98 Existing impervious to be treated as offset, HSG D											
0.	.000	30 Exis											
			ting mead	ow, non-gra	azed, HSG C								
0.	.000				azed, HSG D								
		30 Exis	ting Wood	s, Good, H	SG A								
4.	.977	70 Exis	ting Wood	s, Good, H	SG C								
				s, Good, H									
2.	.513	70 Prop	osed Woo	ds, Good,	HSG C								
0.	.330	77 Prop	osed Woo	ds, Good,	HSG D								
					pe treated, HSG C								
					pe treated, HSG D								
					ervious, HSG C								
					ervious, HSG D								
					adow, non-grazed, HSG C								
					adow, non-grazed, HSG D								
					adow to be treated, HSG C								
					adow to be treated, HSG D								
				dow, ski tra									
				dow, ski tra									
				dow, ski lif									
				dow, ski lif	t, HSG D								
	-		ghted Aver										
	.948		0% Pervio										
0.	.828	3.80	% Impervi	ous Area									
т.	ما العرب ما	Clana	\/alaaitu	Canasitu	Description								
Tc (min)	Length	Slope	Velocity	Capacity	Description								
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Object Floor								
7.8	100	0.1300	0.21		Sheet Flow,								
4.0	0.50	0.0000	0.70		Grass: Dense n= 0.240 P2= 2.40"								
1.6	358	0.2800	3.70		Shallow Concentrated Flow,								
47.0	4 050	0.0700	4.00		Short Grass Pasture Kv= 7.0 fps								
17.3	1,352	0.2700	1.30		Shallow Concentrated Flow,								
1 1	705	0.0000	0.40		Forest w/Heavy Litter Kv= 2.5 fps								
4.1	765	0.2000	3.13		Shallow Concentrated Flow,								
44.0	700	0.0000	4 40		Short Grass Pasture Kv= 7.0 fps								
11.8	793	0.2000	1.12		Shallow Concentrated Flow,								
	0.000	-			Forest w/Heavy Litter Kv= 2.5 fps								
42.6	3,368	Total											

Summary for Subcatchment 77S: WS 16

Runoff = 0.45 cfs @ 12.12 hrs, Volume= 0.037 af, Depth= 0.38"

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Area (ac) CN Description										
0.000 98 Untreated existing impervious, HSG A	_									
0.000 98 Untreated existing impervious, HSG C										
0.037 98 Untreated existing impervious, HSG D										
0.000 98 Existing impervious to be treated as offset, HSG D										
0.000 30 Existing meadow, non-grazed, HSG A										
0.000 71 Existing meadow, non-grazed, HSG C										
0.000 78 Existing meadow, non-grazed, HSG D										
0.000 30 Existing Woods, Good, HSG A 0.083 70 Existing Woods, Good, HSG C										
0.0657 77 Existing Woods, Good, HSG D										
0.057 77 Existing Woods, Good, FISG D 0.054 70 Proposed Woods, Good, HSG C										
0.000 77 Proposed Woods, Good, HSG D										
0.000 98 Proposed impervious to be treated, HSG C										
0.000 98 Proposed impervious to be treated, HSG D										
0.000 98 Untreated proposed impervious, HSG C										
0.000 98 Untreated proposed impervious, HSG D										
0.147 71 Proposed developed meadow, non-grazed, HSG C										
0.041 78 Proposed developed meadow, non-grazed, HSG D										
0.000 71 Proposed developed meadow to be treated, HSG C										
0.000 78 Proposed developed meadow to be treated, HSG D										
0.154 71 Proposed meadow, ski trail, HSG C										
0.000 78 Proposed meadow, ski trail, HSG D										
0.000 71 Proposed meadow, ski lift, HSG C 0.000 78 Proposed meadow, ski lift, HSG D										
1.173 75 Weighted Average										
1.136 96.85% Pervious Area										
0.037 3.15% Impervious Area										
Tc Length Slope Velocity Capacity Description										
(min) (feet) (ft/ft) (ft/sec) (cfs)										
9.0 100 0.0900 0.18 Sheet Flow,										
Grass: Dense n= 0.240 P2= 2.40"										
0.2 30 0.0900 2.10 Shallow Concentrated Flow,										
Short Grass Pasture Kv= 7.0 fps										
0.3 25 0.4000 1.58 Shallow Concentrated Flow,										
Forest w/Heavy Litter Kv= 2.5 fps 1.6 119 0.2500 1.25 Shallow Concentrated Flow,										
Forest w/Heavy Litter Kv= 2.5 fps										
2.6 139 0.1300 0.90 Shallow Concentrated Flow,										
Forest w/Heavy Litter Kv= 2.5 fps										
2.6 161 0.1700 1.03 Shallow Concentrated Flow,										
Forest w/Heavy Litter Kv= 2.5 fps										
0.1 70 0.0300 8.52 25.56 Trap/Vee/Rect Channel Flow,										
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.	00'									
n= 0.022										
16.4 644 Total										

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Summary for Subcatchment 78S: WS 17

Runoff = 1.12 cfs @ 11.95 hrs, Volume= 0.050 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 1-Year Rainfall=2.00"

	Area	(20)	CN Des	cription									
_					ting import	ique HSC A							
						ious, HSG A							
				Jntreated existing impervious, HSG C Jntreated existing impervious, HSG D									
				Existing impervious to be treated as offset, HSG D									
				Existing meadow, non-grazed, HSG A									
			71 Existing meadow, non-grazed, HSG C										
						azed, HSG D							
					s, Good, H								
					s, Good, H								
					s, Good, H								
					ds, Good, III								
					ds, Good,								
						e treated, HSG C							
						e treated, HSG D							
						rvious, HSG C							
						rvious, HSG D							
						dow, non-grazed, HSG C							
	0.					dow, non-grazed, HSG D							
	0.	000				dow to be treated, HSG C							
	0.	000	78 Prop	osed deve	eloped mea	dow to be treated, HSG D							
	0.	119	71 Prop	osed mea	dow, ski tra	ail, HSG C							
				osed mea	dow, ski tra	ail, HSG D							
				osed mea	dow, ski lift	;, HSG C							
_	0.	000	78 Prop	osed mea	dow, ski lift	;, HSG D							
				ghted Aver									
		242		6% Pervio									
	0.	094	7.04	% Impervi	ous Area								
	_												
	Tc	Length		Velocity	Capacity	Description							
_	(min)	(feet)		(ft/sec)	(cfs)								
	0.2	23	0.1700	2.09		Sheet Flow,							
						n= 0.011 P2= 2.40"							
	0.4	53	0.0800	1.98		Shallow Concentrated Flow,							
		400	0.4000	4.00		Short Grass Pasture Kv= 7.0 fps							
	2.1	126	0.1600	1.00		Shallow Concentrated Flow,							
	0.0	200	0.4400	45.00	75.00	Forest w/Heavy Litter Kv= 2.5 fps							
	0.2	202	0.1400	15.06	75.28	Trap/Vee/Rect Channel Flow,							
						Bot.W=4.00' D=1.00' Z= 1.0 '/' Top.W=6.00' n= 0.030							
_	2.0	404	Total			11- 0.030							

2.9 404 Total

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Summary for Subcatchment 79S: WS 17A

Runoff = 2.14 cfs @ 12.04 hrs, Volume= 0.130 af, Depth= 0.48"

Area	(ac)	CN De	escription									
0.	.000	98 Ur	Untreated existing impervious, HSG A									
0.	.000	98 Ur	Untreated existing impervious, HSG C									
0.	.000	98 Ur	Jntreated existing impervious, HSG D									
0.	.000	98 Ex	Existing impervious to be treated as offset, HSG D									
0.	.000	30 Ex	isting mead	ow, non-gra	azed, HSG A							
0.	.000	71 Ex	isting mead	ow, non-gra	azed, HSG C							
0.	.000	78 Ex	isting mead	ow, non-gra	azed, HSG D							
0.	.000	30 Ex	isting Wood	s, Good, H	SG A							
	.000	70 Ex	isting Wood	s, Good, H	SG C							
0.	.035	77 Ex	isting Wood	s, Good, H	SG D							
0.	.000		oposed Woo	ods, Good,	HSG C							
0.	.000		oposed Woo	ods, Good,	HSG D							
	.780				e treated, HSG C							
	.000				e treated, HSG D							
	.039				rvious, HSG C							
	.000				rvious, HSG D							
	.000				ndow, non-grazed, HSG C							
	.000				ndow, non-grazed, HSG D							
	.761				ndow to be treated, HSG C							
	.248				ndow to be treated, HSG D							
	.349		oposed mea		·							
	.000		oposed mea									
	.000		oposed mea									
0.	.000	78 Pr	oposed mea	idow, ski lift	t, HSG D							
	.212		eighted Ave									
	.393	74	.50% Pervio	ous Area								
0.	.819	25	.50% Imper	vious Area								
Tc	Length			Capacity	Description							
(min)	(feet) (ft/f	t) (ft/sec)	(cfs)								
6.3	73	3 0.120	0 0.19		Sheet Flow,							
					Grass: Dense n= 0.240 P2= 2.40"							
1.8	94	1 0.120	0 0.87		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
2.4	268	3 0.070	0 1.85		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
10.5	43	5 Total										

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Summary for Subcatchment 80S: WS 17B

Runoff = 2.60 cfs @ 11.96 hrs, Volume= 0.118 af, Depth= 0.60"

Area	(ac)	CN	Desc	cription									
0.	000	98	Untre	eated exis	ting imperv	rious, HSG A							
0.	000	98		Intreated existing impervious, HSG C									
0.	000	98	Untre	Jntreated existing impervious, HSG D									
0.	000	98	Exist	Existing impervious to be treated as offset, HSG D									
0.	000	30	Exist	Existing meadow, non-grazed, HSG A									
0.	000	71	Exist	ing meado	ow, non-gra	azed, HSG C							
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D							
	000	30	Exist	ing Wood	s, Good, H	SG A							
0.	001	70	Exist	ing Wood	s, Good, H	SG C							
0.	000	77	Exist	ing Wood	s, Good, H	SG D							
	000	70	Prop	osed Woo	ds, Good,	HSG C							
0.	000	77	Prop	osed Woo	ds, Good,	HSG D							
	843	98				e treated, HSG C							
	055	98				oe treated, HSG D							
	000	98				rvious, HSG C							
	000	98				rvious, HSG D							
	000	71				adow, non-grazed, HSG C							
	000	78				adow, non-grazed, HSG D							
	441	71			•	adow to be treated, HSG C							
	006	78				adow to be treated, HSG D							
	000	71			dow, ski tra								
	000	78			dow, ski tra								
	000	71			dow, ski lift								
	000	78			dow, ski lif	t, HSG D							
	346	81		hted Aver									
	448			2% Pervio									
0.	898		38.2	8% Imper\	∕ious Area								
То	Longt	h 0	lono	Valacity	Consoitu	Description							
Tc (min)	Lengtl (feet		Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description							
(min)					(CIS)	Oh a of Flavo							
0.7	100	0 0.	1200	2.44		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.40"							
0.1	40	2 O	1200	7.03									
U. I	46	0 0.	1200	7.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps							
3.5	1,12	7 0	1200	5.43	16.30	·							
3.3	1,12	<i>i</i> 0.	1200	5.43	10.30	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
						n= 0.069 Riprap, 6-inch							
4.3	1,27	3 Ta	tal			11- 0.000 Τάριαρ, ο-ποπ							
7.0	1,21		, tui										

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Summary for Subcatchment 81S: WS 17C

Runoff = 0.57 cfs @ 12.11 hrs, Volume= 0.045 af, Depth= 0.41"

Area	(ac)	CN	Desc	ription								
0.	000	98	Untre	Jntreated existing impervious, HSG A								
0.	000	98	Untre	Intreated existing impervious, HSG C								
0.	000	98	Untre	Jntreated existing impervious, HSG D								
0.	000	98	Exist	Existing impervious to be treated as offset, HSG D								
0.	000	30	Exist	ing meado	w, non-gra	azed, HSG A						
0.	000	71	Exist	ing meado	ow, non-gra	azed, HSG C						
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D						
	000	30			s, Good, H							
	298	70			s, Good, H							
0.	000	77	Exist	ing Woods	s, Good, H	SG D						
	000	70			ds, Good,							
	000	77			ds, Good,							
	000	98				e treated, HSG C						
	000	98				e treated, HSG D						
	264	98				rvious, HSG C						
	000	98				rvious, HSG D						
	746	71				dow, non-grazed, HSG C						
	000	78				dow, non-grazed, HSG D						
	000	71				adow to be treated, HSG C						
	000	78				adow to be treated, HSG D						
	000	71			dow, ski tra							
	000	78			dow, ski tra							
	000	71			dow, ski lift							
	000	78			dow, ski lift	t, HSG D						
	308	76		hted Aver								
	044			2% Pervio								
0.	264		20.18	8% Imperv	vious Area							
Tc	Lengt	·h	Slope	Velocity	Capacity	Description						
(min)	(fee		(ft/ft)	(ft/sec)	(cfs)	Description						
10.8).2000	0.09	(0.0)	Sheet Flow,						
10.0	Ū		.2000	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"						
4.7	31	6 0	.2000	1.12		Shallow Concentrated Flow,						
	٥.	-	000	2		Forest w/Heavy Litter Kv= 2.5 fps						
0.5	7	6 0	.1300	2.52		Shallow Concentrated Flow,						
0.3	•	. •				Short Grass Pasture Kv= 7.0 fps						
16.0	44	8 T	otal									

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Summary for Subcatchment 82S: WS 17D

Runoff = 0.74 cfs @ 12.09 hrs, Volume= 0.054 af, Depth= 0.48"

Area	(ac)	CN	Desc	cription									
0.	.000	98	Untre	Jntreated existing impervious, HSG A									
0.	.000	98	Untre	Jntreated existing impervious, HSG C									
0.	.000	98	Untre	Intreated existing impervious, HSG D									
0.	.000	98	Exist	Existing impervious to be treated as offset, HSG D									
0.	.000	30	Exist	ting meado	ow, non-gra	azed, HSG A							
0.	.000	71	Exist	ting meado	ow, non-gra	azed, HSG C							
0.	.000	78		ting meado	ow, non-gra	azed, HSG D							
	.000	30			s, Good, H								
	.000	70			s, Good, H								
	.000	77			s, Good, H								
	.000	70			ds, Good,								
	.000	77			ds, Good,								
	.000	98				e treated, HSG C							
	.000	98				e treated, HSG D							
	.346	98				rvious, HSG C							
	.003	98				rvious, HSG D							
	.974	71				adow, non-grazed, HSG C							
	.005	78				adow, non-grazed, HSG D							
	.000	71				adow to be treated, HSG C							
	.000	78 74				adow to be treated, HSG D							
	.000	71			dow, ski tra	·							
	.000	78 74			dow, ski tra								
	.000	71			dow, ski lift								
	.000	78			dow, ski lift	I, H5G D							
	.328	78		hted Aver									
	.979		_	2% Pervio									
0.	.349		26.2	8% Imper	llous Area								
Тс	Lengt	h	Slope	Velocity	Capacity	Description							
(min)	(fee		(ft/ft)	(ft/sec)	(cfs)	2							
10.9	4		0.1500	0.07		Sheet Flow,							
						Woods: Dense underbrush n= 0.800 P2= 2.40"							
1.6	9	5 (0.1500	0.97		Shallow Concentrated Flow,							
						Forest w/Heavy Litter Kv= 2.5 fps							
2.4	15	5 (0.1800	1.06		Shallow Concentrated Flow,							
						Forest w/Heavy Litter Kv= 2.5 fps							
14.9	29	9 7	Γotal										

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Summary for Subcatchment 83S: WS 17E

Runoff = 4.75 cfs @ 11.98 hrs, Volume= 0.229 af, Depth= 0.80"

Area	(ac) (CN De	scription									
0.	000	98 Unt	Untreated existing impervious, HSG A									
0.	000	98 Unt	Intreated existing impervious, HSG C									
0.	000	98 Unt	Jntreated existing impervious, HSG D									
0.	000		Existing impervious to be treated as offset, HSG D									
0.	000	30 Exi	sting mead	ow, non-gra	azed, HSG A							
	000				azed, HSG C							
					azed, HSG D							
0.	000	30 Exi	sting Wood	s, Good, H	SG A							
0.	000	70 Exi	sting Wood	s, Good, H	SG C							
			sting Wood									
		70 Pro	posed Woo	ds, Good,	HSG C							
0.	036	77 Pro	posed Woo	ds, Good,	HSG D							
0.	414	98 Pro	posed impe	ervious to b	oe treated, HSG C							
					oe treated, HSG D							
	0.000 98 Untreated proposed impervious, HSG C											
					rvious, HSG D							
	000		•		adow, non-grazed, HSG C							
	000		•		adow, non-grazed, HSG D							
	340				adow to be treated, HSG C							
	819				adow to be treated, HSG D							
	000		posed mea	,	·							
	004		posed mea									
	000		posed mea									
	000		posed mea		t, HSG D							
			ighted Aver									
	199		65% Pervio									
1.:	256	36.	35% Imper	vious Area								
Тс	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)			(cfs)	2 - 2 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -							
1.2	100	0.0300	1.40	, ,	Sheet Flow,							
					Smooth surfaces n= 0.011 P2= 2.40"							
5.1	1,621	0.1000	5.30	21.20	Trap/Vee/Rect Channel Flow,							
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'							
					n= 0.069 Riprap, 6-inch							
6.3	1,721	Total										

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Summary for Subcatchment 84S: WS 17F

Runoff = 3.06 cfs @ 12.18 hrs, Volume= 0.266 af, Depth= 0.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 1-Year Rainfall=2.00"

Area	(ac)	CN	Desc	cription							
0.	000	98	Untro	eated exist	ting imperv	ious, HSG A					
0.	000	98	Untro	Intreated existing impervious, HSG C							
0.	000	98	Untro	eated exist	ting imperv	ious, HSG D					
0.	000	98	Exist	ting imperv	ious to be	treated as offset, HSG D					
0.	000	30	Exist	ting meado	w, non-gra	azed, HSG A					
0.	000	71	Exist	ting meado	w, non-gra	azed, HSG C					
0.	000	78	Exist	ting meado	w, non-gra	azed, HSG D					
0.	000	30	Exist	ting Woods	s, Good, H	SG A					
0.	019	70	Exist	ting Woods	s, Good, H	SG C					
1.	100	77	Exist	ting Woods	s, Good, H	SG D					
0.	000	70	Prop	osed Woo	ds, Good, I	HSG C					
0.	000	77	Prop	osed Woo	ds, Good, I	HSG D					
0.	000					e treated, HSG C					
0.	000					e treated, HSG D					
	000					rvious, HSG C					
	217			Untreated proposed impervious, HSG D							
	007			Proposed developed meadow, non-grazed, HSG C							
	244		B Proposed developed meadow, non-grazed, HSG D								
	000					dow to be treated, HSG C					
	000					dow to be treated, HSG D					
	000				dow, ski tra						
	000				dow, ski tra						
	000				dow, ski lift						
0.	000	78	Prop	osed mea	dow, ski lift	;, HSG D					
4.	587	83	Weig	ghted Aver	age						
3.	370		73.4	7% Pervio	us Area						
1.	217		26.5	3% Imperv	ious Area						
т.	المصمطا	- 01		Valaaitu	Canacitu	Description					
Tc (min)	Length (feet		ope ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description					
10.9	44		200	0.07	(013)	Sheet Flow,					
10.9	44	+ U. I.	Z UU	0.07		Woods: Dense underbrush n= 0.800 P2= 2.40"					
12.6	683	2 0 1	300	0.90		Shallow Concentrated Flow,					
12.0	000	0.1	300	0.90		Forest w/Heavy Litter Kv= 2.5 fps					
23.5	70	7 Tot	· a l			1 Orest Willieavy Litter INV- 2.3 Ips					
23.5	727	101	.al								

Summary for Subcatchment 85S: WS 18

Runoff = 0.18 cfs @ 11.96 hrs, Volume= 0.008 af, Depth= 0.52"

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Area	(ac)	CN	Desc	cription							
0.	000	98	Untre	eated exis	ting imperv	rious, HSG A					
0.	000	98	Untre	Untreated existing impervious, HSG C							
0.	021	98	Untre	eated exis	ting imperv	rious, HSG D					
0.	000	98	Exist	ing imper	ious to be	treated as offset, HSG D					
0.	000	30	Exist	ing meado	ow, non-gra	azed, HSG A					
0.	000	71	Exist	ing meado	ow, non-gra	azed, HSG C					
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D					
	000	30			s, Good, H						
	000	70			s, Good, H						
0.	165	77	Exist	ing Woods	s, Good, H	SG D					
	000	70			ds, Good,						
	000	77			ds, Good,						
	000	98				e treated, HSG C					
	000	98				e treated, HSG D					
	000	98			•	rvious, HSG C					
	000	98		Untreated proposed impervious, HSG D							
	000	71		Proposed developed meadow, non-grazed, HSG C							
	000	78	Proposed developed meadow, non-grazed, HSG D								
	000	71				dow to be treated, HSG C					
	000	78			•	dow to be treated, HSG D					
	000	71			dow, ski tra						
	000	78			dow, ski tra						
	000	71			dow, ski lift						
	000	78			dow, ski lift	t, HSG D					
	186	79		hted Aver	•						
	165			1% Pervio							
0.	021		11.29	9% Imperv	vious Area						
Tc	Lengtl	h S	lope	Velocity	Capacity	Description					
(min)	(feet		ft/ft)	(ft/sec)	(cfs)	1					
4.1	6	5 0.2	2700	0.26		Sheet Flow,					
						Grass: Dense n= 0.240 P2= 2.40"					
0.1	92	2 0.1	100	16.31	48.94	Trap/Vee/Rect Channel Flow,					
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
						n= 0.022					
4.2	15	7 To	tal								

Summary for Subcatchment 86S: WS 19

Runoff = 0.34 cfs @ 12.05 hrs, Volume= 0.022 af, Depth= 0.41"

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Area	(ac)	CN	Desc	cription							
0.	000	98	Untre	eated exis	ting imperv	ious, HSG A					
0.	000	98	Untre	Intreated existing impervious, HSG C							
0.	800	98	Untre	eated exis	ting imperv	ious, HSG D					
0.	000	98	Exist	ing imper	ious to be	treated as offset, HSG D					
0.	000	30	Exist	ing meado	ow, non-gra	azed, HSG A					
0.	000	71	Exist	ing meado	ow, non-gra	azed, HSG C					
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D					
0.	000	30	Exist	ing Woods	s, Good, H	SG A					
0.	060	70	Exist	ing Woods	s, Good, H	SG C					
0.	313	77	Exist	ing Woods	s, Good, H	SG D					
0.	000	70	Prop	osed Woo	ds, Good,	HSG C					
0.	000	77	Prop	osed Woo	ds, Good,	HSG D					
0.	000	98	Prop	osed impe	ervious to b	e treated, HSG C					
0.	000	98	Prop	osed impe	ervious to b	e treated, HSG D					
0.	016	98	Untre	eated prop	osed impe	rvious, HSG C					
0.	000	98	Untre	eated prop	osed impe	rvious, HSG D					
0.	116	71	Prop	osed deve	loped mea	dow, non-grazed, HSG C					
	135	78									
	000	71	Proposed developed meadow to be treated, HSG C								
	000	78	Proposed developed meadow to be treated, HSG D								
	000	71			dow, ski tra						
	000	78			dow, ski tra						
	000	71			dow, ski lift						
0.	000	78	Prop	osed mea	dow, ski lift	t, HSG D					
0.	648	76	Weig	hted Aver	age						
0.	624		96.3	0% Pervio	us Area						
0.	024		3.70	% Impervi	ous Area						
Tc	Length		lope	Velocity	Capacity	Description					
(min)	(feet) ((ft/ft)	(ft/sec)	(cfs)						
7.2	100	0.1	1600	0.23		Sheet Flow,					
						Grass: Dense n= 0.240 P2= 2.40"					
4.2	253	3 0.1	1600	1.00		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
0.1	102	2 0.0	0600	12.05	36.14	Trap/Vee/Rect Channel Flow,					
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
						n= 0.022					
11.5	455	5 То	tal								

Summary for Subcatchment 87S: WS 20

Runoff = 1.09 cfs @ 11.99 hrs, Volume= 0.055 af, Depth= 0.48"

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Area	(ac) C	N Des	cription									
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A							
0.	.000		Intreated existing impervious, HSG C									
0.	.037		Intreated existing impervious, HSG D									
0.	.000		xisting impervious to be treated as offset, HSG D									
0.	.000				azed, HSG A							
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C							
0.	.000				azed, HSG D							
0.	.000	30 Exis	ting Wood	s, Good, H	SG A							
0.	.007	70 Exis	ting Wood	s, Good, H	SG C							
0.	.881	77 Exis	ting Wood	s, Good, H	SG D							
0.	.000	70 Prop	osed Woo	ds, Good,	HSG C							
0.	.000	77 Prop	osed Woo	ds, Good,	HSG D							
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG C							
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG D							
0.	.013	98 Untr	eated prop	osed impe	ervious, HSG C							
0.	.027	98 Untr	eated prop	osed impe	ervious, HSG D							
					adow, non-grazed, HSG C							
			osed deve	eloped mea	adow, non-grazed, HSG D							
	0.000 71 Proposed developed meadow to be treated, HSG C											
	0.000 78 Proposed developed meadow to be treated, HSG D											
	0.000 71 Proposed meadow, ski trail, HSG C											
	0.000 78 Proposed meadow, ski trail, HSG D											
			Proposed meadow, ski lift, HSG C									
		78 Prop	osed mea	dow, ski lif	t, HSG D							
		,	ghted Aver	•								
	.281		3% Pervio									
0.	.077	5.67	% Impervi	ous Area								
_		٥.										
Tc	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)								
0.4	34	0.0600	1.49		Sheet Flow,							
					Smooth surfaces n= 0.011 P2= 2.40"							
0.1	18	0.3900	4.37		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
2.8	166	0.1600	1.00		Shallow Concentrated Flow,							
_					Forest w/Heavy Litter Kv= 2.5 fps							
2.6	144	0.1400	0.94		Shallow Concentrated Flow,							
<u>.</u> .		0.0005		0	Forest w/Heavy Litter Kv= 2.5 fps							
0.1	64	0.0300	8.52	25.56	Trap/Vee/Rect Channel Flow,							
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
					n= 0.022							
6.0	426	Total										

Summary for Subcatchment 88S: WS 20A

Runoff = 0.70 cfs @ 11.95 hrs, Volume= 0.034 af, Depth= 0.35"

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Area	(ac) (CN D	escription								
0	.000	98 U	ntreated exi	sting imperv	vious, HSG A						
0	.000		ntreated existing impervious, HSG C								
0	.000	98 U	Untreated existing impervious, HSG D								
0	.000	98 E	xisting impe	rvious to be	treated as offset, HSG D						
0	.000	30 E	xisting mead	dow, non-gra	azed, HSG A						
0	.000				azed, HSG C						
0	.000	78 E	xisting mead	dow, non-gra	azed, HSG D						
0	.000	30 E	xisting Woo	ds, Good, H	SG A						
0	.287	70 E	xisting Woo	ds, Good, H	SG C						
0	.000	77 E	xisting Woo	ds, Good, H	SG D						
0	.000	70 P	roposed Wo	ods, Good,	HSG C						
0	.000	77 P	roposed Wo	ods, Good,	HSG D						
0	.000	98 P	roposed imp	pervious to b	pe treated, HSG C						
		98 P	roposed imp	pervious to b	pe treated, HSG D						
					ervious, HSG C						
		98 U	ntreated pro	posed impe	ervious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
	0.000 78 Proposed developed meadow to be treated, HSG D										
			Proposed meadow, ski trail, HSG D								
			Proposed meadow, ski lift, HSG C								
			Proposed meadow, ski lift, HSG D								
			eighted Ave								
	.013		7.33% Pervi								
0	.147	12	2.67% Impe	rvious Area							
	1 41.	01			December 6						
Tc					Description						
<u>(min)</u>	(feet)										
0.7	100	0.100	00 2.27		Sheet Flow,						
0.4	4-7	0.404	0.40		Smooth surfaces n= 0.011 P2= 2.40"						
0.1	47	0.100	00 6.42		Shallow Concentrated Flow,						
0.4	0.5	0.400	1.50		Paved Kv= 20.3 fps						
0.1	35	0.430	00 4.59		Shallow Concentrated Flow,						
4.0	440	0.470	100		Short Grass Pasture Kv= 7.0 fps						
1.9	116	0.170	00 1.03	i	Shallow Concentrated Flow,						
0.5	20	0.400	1 00		Forest w/Heavy Litter Kv= 2.5 fps						
0.5	32	0.190	00 1.09	ı	Shallow Concentrated Flow,						
	000	T . 4 . '			Forest w/Heavy Litter Kv= 2.5 fps						
3.3	330	Total									

Summary for Subcatchment 89S: WS 20B

Runoff = 0.35 cfs @ 11.99 hrs, Volume= 0.019 af, Depth= 0.32"

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Area	(ac) C	N Des	cription					
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A			
0.	000	98 Untr	eated exis	ting imperv	rious, HSG C			
0.	000	98 Untr	eated exis	ting imperv	rious, HSG D			
0.	000	98 Exis	ting imper	vious to be	treated as offset, HSG D			
					azed, HSG A			
					azed, HSG C			
					azed, HSG D			
			•	s, Good, H				
				s, Good, H				
				s, Good, H				
				ds, Good,				
				ds, Good,				
					e treated, HSG C			
					e treated, HSG D			
					rvious, HSG C			
					rvious, HSG D			
			Proposed developed meadow, non-grazed, HSG C					
			Proposed developed meadow, non-grazed, HSG D					
					adow to be treated, HSG C			
					adow to be treated, HSG D			
				dow, ski tra				
				dow, ski tra				
				dow, ski lift				
				dow, ski lift	t, HSG D			
			ghted Aver					
	676		0% Pervio					
0.	054	7.40	% Impervi	ous Area				
Tc	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	·			
5.3	76	0.2000	0.24		Sheet Flow,			
					Grass: Dense n= 0.240 P2= 2.40"			
0.2	140	0.1300	13.74	228.43	Trap/Vee/Rect Channel Flow,			
					Bot.W=3.00' D=3.50' Z= 1.0 & 0.0 '/' Top.W=6.50'			
					n= 0.050 Mountain streams w/large boulders			
5.5	216	Total						

Summary for Subcatchment 90S: WS 20C

Runoff = 2.48 cfs @ 12.15 hrs, Volume= 0.211 af, Depth= 0.48"

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Area	(ac) (CN Des	scription							
0.	000	98 Unt	reated exis	ting imperv	rious, HSG A					
0.	000		Jntreated existing impervious, HSG C							
0.	000	98 Unt	reated exis	ting imperv	rious, HSG D					
0.	000				treated as offset, HSG D					
0.	000	30 Exis	sting mead	ow, non-gra	azed, HSG A					
0.	000	71 Exis	sting mead	ow, non-gra	azed, HSG C					
0.	000		sting mead	ow, non-gra	azed, HSG D					
0.	000	30 Exis	sting Wood	s, Good, H	SG A					
1.	487	70 Exis	sting Wood	s, Good, H	SG C					
0.	000		sting Wood	s, Good, H	SG D					
	117			ods, Good,						
	000	77 Pro	posed Woo	ods, Good,	HSG D					
	000				e treated, HSG C					
	000				e treated, HSG D					
	368				rvious, HSG C					
	000				rvious, HSG D					
	264				ndow, non-grazed, HSG C					
	0.000 78 Proposed developed meadow, non-grazed, HSG D									
	0.000 71 Proposed developed meadow to be treated, HSG C									
	000									
	001			idow, ski tra						
	000			idow, ski tra						
	000			idow, ski lif						
0.	000		posed mea	idow, ski lif	t, HSG D					
	237		ighted Avei							
	869	73.	88% Pervio	us Area						
1.	368	26.	12% Imper	vious Area						
Tc	Length			Capacity	Description					
(min)	(feet)		(ft/sec)	(cfs)						
10.8	56	0.2000	0.09		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
8.7	582	0.2000	1.12		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.3	116	0.1400	5.87	17.60	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.069 Riprap, 6-inch					
19.8	754	Total								

Summary for Subcatchment 91S: WS 20D

Runoff = 4.58 cfs @ 12.34 hrs, Volume= 0.595 af, Depth= 0.41"

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Area	(ac) C	N Desc	cription							
0.	000 9	98 Untr	eated exis	ting imperv	rious, HSG A					
0.	002	98 Untr	eated exis	ting imperv	rious, HSG C					
0.	000	98 Untr	Intreated existing impervious, HSG D							
			existing impervious to be treated as offset, HSG D							
					azed, HSG A					
					azed, HSG C					
					azed, HSG D					
				s, Good, H						
			0	s, Good, H						
				s, Good, H						
				ds, Good,						
				ds, Good,						
					e treated, HSG C					
					e treated, HSG D					
					rvious, HSG C rvious, HSG D					
					idow, non-grazed, HSG C					
	1.316 78 Proposed developed meadow, non-grazed, HSG D0.571 71 Proposed developed meadow to be treated, HSG C									
	0.571 71 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG D									
	0.496 71 Proposed meadow, ski trail, HSG C									
	0.000 78 Proposed meadow, ski trail, HSG D									
			Proposed meadow, ski lift, HSG C							
			Proposed meadow, ski lift, HSG D							
17.	266	76 Weig	ghted Aver	age						
	478		4% Pervio							
1.	788	10.3	6% Imperv	/ious Area						
	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
9.5	100	0.0800	0.18		Sheet Flow,					
					Grass: Dense n= 0.240 P2= 2.40"					
2.8	470	0.1600	2.80		Shallow Concentrated Flow,					
					Short Grass Pasture Kv= 7.0 fps					
5.8	408	0.2200	1.17		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
1.9	282	0.1300	2.52		Shallow Concentrated Flow,					
44.0	500	0.4000	0.00		Short Grass Pasture Kv= 7.0 fps					
11.0	593	0.1300	0.90		Shallow Concentrated Flow,					
2.0	EAA	0.0000	2.04	14.50	Forest w/Heavy Litter Kv= 2.5 fps					
2.2	511	0.0600	3.84	11.52	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
	0.004	Tatal			n= 0.069 Riprap, 6-inch					
33.2	2,364	Total								

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Summary for Subcatchment 92S: WS 21

Runoff = 0.28 cfs @ 12.06 hrs, Volume= 0.018 af, Depth= 0.48"

Area	(ac) C	N Des	cription						
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A				
0.	000	98 Untr	eated exis	ting imperv	vious, HSG C				
0.	020	98 Untr	eated exis	ting imperv	vious, HSG D				
0.	000	98 Exis	ting imperv	vious to be	treated as offset, HSG D				
0.	000	30 Exis	ting meado	ow, non-gra	azed, HSG A				
					azed, HSG C				
					azed, HSG D				
				s, Good, H					
			_	s, Good, H					
				s, Good, H					
				ds, Good,					
				ds, Good,					
					pe treated, HSG C				
					pe treated, HSG D				
					ervious, HSG C				
					ervious, HSG D				
			Proposed developed meadow to be treated, HSG C						
			Proposed developed meadow to be treated, HSG D Proposed meadow, ski trail, HSG C						
				dow, ski tra					
				dow, ski lif					
				dow, ski lif	t, HSG D				
			ghted Aver						
	433		8% Pervio						
0.	020	4.42	% Impervi	ous Area					
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Description				
11.0	46		0.07	(013)	Sheet Flow,				
11.0	40	0.1300	0.07		Woods: Dense underbrush n= 0.800 P2= 2.40"				
1.5	82	0.1300	0.90		Shallow Concentrated Flow,				
1.5	02	0.1300	0.90		Forest w/Heavy Litter Kv= 2.5 fps				
0.3	138	0.0300	8.52	25.56	Trap/Vee/Rect Channel Flow,				
0.0	130	0.0000	0.02	20.00	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.022				
12.8	266	Total							

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Summary for Subcatchment 93S: WS 21A

Runoff = 5.20 cfs @ 11.96 hrs, Volume= 0.244 af, Depth= 0.70"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.030	70	Existing Woods, Good, HSG C
0.334	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.062	98	Proposed impervious to be treated, HSG C
1.172	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.149	71	Proposed developed meadow to be treated, HSG C
2.457	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.204	83	Weighted Average
2.970		70.65% Pervious Area
1.234		29.35% Impervious Area

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Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
0.8	47	0.0200	1.02		Sheet Flow,
					Smooth surfaces n= 0.011 P2= 2.40"
1.4	366	0.0800	4.44	13.31	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.069 Riprap, 6-inch
0.1	62	0.0100	7.20	22.62	Pipe Channel,
					24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'
					n= 0.013 Corrugated PE, smooth interior
1.5	105	0.2300	1.20		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.9	170	0.0400	3.14	9.41	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.069 Riprap, 6-inch
0.1	50	0.0500	16.10	50.59	Pipe Channel,
					24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'
					n= 0.013 Corrugated PE, smooth interior
0.3	110	0.1300	5.65	16.96	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.069 Riprap, 6-inch
5.1	910	Total			

Summary for Subcatchment 94S: WS 21B

Runoff = 1.78 cfs @ 12.10 hrs, Volume= 0.130 af, Depth= 0.48"

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0.000 98 Untreated existing impervious, HSG A 0.000 98 Untreated existing impervious, HSG D 0.000 98 Existing impervious to be treated as offset, HSG D 0.000 30 Existing meadow, non-grazed, HSG A 0.000 71 Existing meadow, non-grazed, HSG C 0.000 78 Existing weadow, non-grazed, HSG D 0.000 30 Existing weadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG D 0.000 30 Existing Woods, Good, HSG D 0.012 77 Existing Woods, Good, HSG C 0.012 77 Proposed Woods, Good, HSG C 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D 0.792 98 Untreated proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.118 78 Proposed developed meadow, non-grazed, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG D 0.000 72 Proposed developed meadow to be treated, HSG D 0.000 73 Proposed developed meadow to be treated, HSG D 0.000 74 Proposed developed meadow to be treated, HSG D 0.000 75 Proposed meadow, ski trail, HSG C 0.000 76 Proposed meadow, ski trail, HSG C 0.000 77 Proposed meadow, ski liff, HSG C 0.000 78 Proposed meadow, ski liff, HSG D 0.000 79 Proposed meadow, ski liff, HSG D 0.000 79 Proposed meadow, ski liff, HSG D	Area	(ac)	CN	Desc	cription					
0.000 98 Untreated existing impervious, HSG C 0.000 98 Existing impervious, HSG D 0.000 30 Existing meadow, non-grazed, HSG A 0.000 71 Existing meadow, non-grazed, HSG D 0.000 78 Existing meadow, non-grazed, HSG D 0.000 30 Existing woods, Good, HSG A 0.010 30 Existing Woods, Good, HSG A 0.413 70 Existing Woods, Good, HSG C 0.012 77 Existing Woods, Good, HSG C 0.012 77 Proposed Woods, Good, HSG C 0.000 77 Proposed Woods, Good, HSG C 0.000 98 Proposed impervious to be treated, HSG D 0.792 98 Untreated proposed impervious, HSG D 0.000 98 Proposed developed meadow, non-grazed, HSG C 0.118 78 Proposed developed meadow, non-grazed, HSG C 0.000 71 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski ift, HSG D	0.	.000	98	Untre	eated exis	ting imperv	rious, HSG A			
0.000 98 Existing impervious to be treated as offset, HSG D 0.000 71 Existing meadow, non-grazed, HSG C 0.000 78 Existing meadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG A 0.413 70 Existing Woods, Good, HSG C 0.012 77 Existing Woods, Good, HSG C 0.012 77 Existing Woods, Good, HSG C 0.000 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D 0.792 98 Untreated proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG C 0.000 98 Proposed developed meadow, non-grazed, HSG C 0.118 78 Proposed developed meadow, non-grazed, HSG C 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.591 71 Proposed developed meadow to be treated, HSG D 0.591 71 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski lift, HSG D 0.000 71 Proposed meadow, ski lift, HSG D 0.000 72 Proposed meadow, ski lift, HSG D 0.000 73 Proposed meadow, ski lift, HSG D 0.000 74 Proposed meadow, ski lift, HSG D 0.000 75 Proposed meadow, ski lift, HSG D 0.000 76 Proposed meadow, ski lift, HSG D 0.000 77 Proposed meadow, ski lift, HSG D 0.000 78 Proposed meadow, ski lift, HSG D	0.	.000	98							
0.000 30 Existing meadow, non-grazed, HSG A 0.000 71 Existing meadow, non-grazed, HSG C 0.000 78 Existing meadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG A 0.413 70 Existing Woods, Good, HSG C 0.012 77 Existing Woods, Good, HSG C 0.000 77 Proposed Woods, Good, HSG C 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D 0.792 98 Untreated proposed impervious, HSG D 1.049 71 Proposed developed meadow, non-grazed, HSG C 0.118 78 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG D 0.591 71 Proposed developed meadow to be treated, HSG D 0.591 71 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski tril, HSG C 0.000 78 Proposed meadow, ski tril, HSG D 0.000 78 Proposed meadow, ski lift, HSG D 3.217 78 Weighted Average 2.425 75.38% Pervious Area Tc Length Slope Velocity Capacity Description (min) (feet) Slope Velocity Capacity Description	0.	.000	98	Untre	eated exis	ting imperv	rious, HSG D			
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0.792 24.62% Impervious Area Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)			78							
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)										
(min) (feet) (ft/ft) (ft/sec) (cfs)	0.	.792		24.62	2% Imper\	/ious Area				
(min) (feet) (ft/ft) (ft/sec) (cfs)	т.	1	.41.	01	\	0	Description			
		_			•		Description			
0.0 400 0.4400 0.00 O bset Flow						(CIS)	Oh set Flour			
8.3 100 0.1100 0.20 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40"	8.3	10	JU U	.1100	0.20		·			
	1.0	16	21 0	1100	2 22					
1.2 161 0.1100 2.32 Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps	1.2	10	J 1 U	. 1 100	2.32					
5.8 370 0.1800 1.06 Shallow Concentrated Flow,	5.9	27	70 O	1800	1.06					
Forest w/Heavy Litter Kv= 2.5 fps	5.0	31		. 1000	1.00		· · · · · · · · · · · · · · · · · · ·			
15.3 631 Total	15.3	63	31 T	otal			1 Orost W/1 loavy Litter 11v- 2.0 lps			

Summary for Subcatchment 95S: WS 21C

Runoff = 3.34 cfs @ 12.75 hrs, Volume= 0.715 af, Depth= 0.35"

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 Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
1.021	98	Untreated existing impervious, HSG C
0.399	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
3.513	71	Existing meadow, non-grazed, HSG C
3.194	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
11.552	70	Existing Woods, Good, HSG C
4.190	77	Existing Woods, Good, HSG D
0.457	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.027	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.156	71	Proposed developed meadow, non-grazed, HSG C
0.003	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.001	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
 0.000	78	Proposed meadow, ski lift, HSG D
24.513	74	Weighted Average
23.066		94.10% Pervious Area
1.447		5.90% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	7.4	100	0.1500	0.23	, ,	Sheet Flow,
						Grass: Dense n= 0.240 P2= 2.40"
	0.1	17	0.1500	2.71		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.2	146	0.1900	1.09		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.2	259	0.3000	1.37		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.4	218	0.1100	0.83		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.3	279	0.1900	1.09		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.3	186	0.1400	0.94		Shallow Concentrated Flow,
		0.0		4.05		Forest w/Heavy Litter Kv= 2.5 fps
	1.1	90	0.2900	1.35		Shallow Concentrated Flow,
	2.0	470	0.4000	0.70		Forest w/Heavy Litter Kv= 2.5 fps
	3.6	173	0.1000	0.79		Shallow Concentrated Flow,
	3.6	201	0.1400	0.94		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
	3.0	201	0.1400	0.94		Forest w/Heavy Litter Kv= 2.5 fps
	4.9	256	0.1200	0.87		Shallow Concentrated Flow,
	7.5	200	0.1200	0.07		Forest w/Heavy Litter Kv= 2.5 fps
	4.9	195	0.0700	0.66		Shallow Concentrated Flow,
	1.0	100	0.0700	0.00		Forest w/Heavy Litter Kv= 2.5 fps
	1.7	80	0.1000	0.79		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	7.0	334	0.1000	0.79		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.5	187	0.1300	0.90		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	1.9	139	0.2400	1.22		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	2.1	133	0.1800	1.06		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.3	317	0.1600	19.24	692.62	Trap/Vee/Rect Channel Flow,
						Bot.W=9.00' D=3.00' Z= 1.0 '/' Top.W=15.00'
_						n= 0.050 Mountain streams w/large boulders
	59.5	3,310	Total			

Summary for Subcatchment 96S: WS 22

Runoff = 0.23 cfs @ 12.05 hrs, Volume= 0.014 af, Depth= 0.52"

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Area	(ac)	CN [Desc	cription			
0.	000	98 l	Jntre	eated exis	ting imperv	rious, HSG A	
0.	000	98 l	Jntre	eated exis	ting imperv	rious, HSG C	
0.025 98 Untreated existing impervious, HSG D							
0.	000	98 E	Exist	ting imperv	vious to be	treated as offset, HSG D	
0.	000	30 E	Exist	ting meado	ow, non-gra	azed, HSG A	
0.	000	71 E	Exist	ting meado	ow, non-gra	azed, HSG C	
0.	000	78 E	Exist	ting meado	ow, non-gra	azed, HSG D	
0.	000	30 E	Exist	ting Wood	s, Good, H	SG A	
0.	.000	70 E	Exist	ting Wood	s, Good, H	SG C	
0.	284	77 E	Exist	ting Wood	s, Good, H	SG D	
0.	.000	70 F	⊃rop	osed Woo	ds, Good,	HSG C	
0.	.000	77 F	⊃rop	osed Woo	ds, Good,	HSG D	
0.	.000	98 F	⊃rop	osed impe	ervious to b	e treated, HSG C	
0.	.000	98 F	⊃rop	osed impe	ervious to b	e treated, HSG D	
0.	.000	98 l	Jntre	eated prop	osed impe	rvious, HSG C	
0.	000	98 l	Jntre	eated prop	osed impe	rvious, HSG D	
	.000					ndow, non-grazed, HSG C	
	019					ndow, non-grazed, HSG D	
	.000					ndow to be treated, HSG C	
	.000					ndow to be treated, HSG D	
	.000				dow, ski tra		
	000				dow, ski tra		
	000				dow, ski lift		
0.	.000	78 F	⊃rop	osed mea	dow, ski lift	t, HSG D	
0.	328	79 V	Neig	ghted Aver	age		
0.	303	ç	92.3	8% Pervio	us Area		
0.	025	7	7.62	% Impervi	ous Area		
Tc	Length		ре	Velocity	Capacity	Description	
(min)	(feet) (ft	/ft)	(ft/sec)	(cfs)		
10.8	50	0.16	00	0.08		Sheet Flow,	
						Woods: Dense underbrush n= 0.800 P2= 2.40"	
8.0	50	0.16	00	1.00		Shallow Concentrated Flow,	
						Forest w/Heavy Litter Kv= 2.5 fps	
0.2	125	5 0.05	500	11.00	32.99	Trap/Vee/Rect Channel Flow,	
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'	
						n= 0.022	
11.8	225	5 Tota	al				

Summary for Subcatchment 97S: WS 23

Runoff = 0.33 cfs @ 12.01 hrs, Volume= 0.017 af, Depth= 0.56"

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Area	(ac) (ON De	escription				
0.	000	98 Ur	treated exis	ting imperv	rious, HSG A		
0.	0.000 98 Untreated existing impervious, HSG C						
0.	0.039 98 Untreated existing impervious, HSG D						
			isting imper	vious to be	treated as offset, HSG D		
			isting mead	ow, non-gra	azed, HSG A		
					azed, HSG C		
					azed, HSG D		
			isting Wood				
			isting Wood				
			isting Wood				
			oposed Woo				
			oposed Woo				
					e treated, HSG C		
					e treated, HSG D		
					rvious, HSG C		
					rvious, HSG D		
					adow, non-grazed, HSG C		
					adow, non-grazed, HSG D		
					adow to be treated, HSG C		
					adow to be treated, HSG D		
			oposed mea				
			oposed mea	•	·		
			oposed mea				
			oposed mea	•	I, NOG D		
			eighted Ave				
	331		.46% Pervio				
0.	039	10	.54% Imper	vious Area			
Тс	Length	Slop	e Velocity	Capacity	Description		
(min)	(feet)	•		(cfs)	'		
7.6	100	0.140	0 0.22	<u> </u>	Sheet Flow,		
					Grass: Dense n= 0.240 P2= 2.40"		
0.6	102	0.140	0 2.62		Shallow Concentrated Flow,		
					Short Grass Pasture Kv= 7.0 fps		
8.2	202	Total					

Summary for Subcatchment 98S: WS 23A

Runoff = 0.95 cfs @ 11.94 hrs, Volume= 0.041 af, Depth= 0.70"

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Area	(ac) C	CN Des	cription				
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A		
0.000 98 Untreated existing impervious, HSG C							
0.000 98 Untreated existing impervious, HSG D							
0.	.000	98 Exis	ting imper	vious to be	treated as offset, HSG D		
0.	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A		
0.	.000				azed, HSG C		
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D		
0.	.000	30 Exis	ting Wood	s, Good, H	SG A		
0.	.000	70 Exis	ting Wood	s, Good, H	SG C		
0.	.000	77 Exis	ting Wood	s, Good, H	SG D		
0.	.000			ds, Good,			
0.	.000	77 Prop	osed Woo	ds, Good,	HSG D		
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG C		
0.	.159	98 Prop	osed impe	ervious to b	pe treated, HSG D		
					ervious, HSG C		
					ervious, HSG D		
					adow, non-grazed, HSG C		
					adow, non-grazed, HSG D		
					adow to be treated, HSG C		
					adow to be treated, HSG D		
				dow, ski tra			
				dow, ski tra			
				dow, ski lif			
				dow, ski lif	t, HSG D		
			ghted Aver	_			
	.543		5% Pervio				
0.	.159	22.6	55% Imper	vious Area			
Tc	Length		Velocity	Capacity	Description		
<u>(min)</u>	(feet)		(ft/sec)	(cfs)			
1.3	19	0.4200	0.25		Sheet Flow,		
					Grass: Dense n= 0.240 P2= 2.40"		
8.0	217	0.0800	4.44	13.31	Trap/Vee/Rect Channel Flow,		
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'		
					n= 0.069 Riprap, 6-inch		
0.7	89	0.0200	2.22	6.65	Trap/Vee/Rect Channel Flow,		
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'		
					n= 0.069 Riprap, 6-inch		
2.8	325	Total					

Summary for Subcatchment 99S: WS 23B

Runoff = 1.74 cfs @ 12.06 hrs, Volume= 0.110 af, Depth= 0.80"

CN Description

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Area (ac)

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0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A				
0.	.000	98 Untr	Intreated existing impervious, HSG C						
0.000 98 Untreated existing impervious, HSG D									
0.000 98 Existing impervious to be treated as offset, HSG D									
0.	0.000 30 Existing meadow, non-grazed, HSG A								
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C				
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D				
0.	.000	30 Exis	ting Wood	s, Good, H	SG A				
		70 Exis	ting Wood	s, Good, H	SG C				
0.	.142			s, Good, H					
			osed Woo	ds, Good,	HSG C				
				ds, Good,					
					e treated, HSG C				
					e treated, HSG D				
					rvious, HSG C				
					rvious, HSG D				
					idow, non-grazed, HSG C				
					idow, non-grazed, HSG D				
					dow to be treated, HSG C				
				•	dow to be treated, HSG D				
				dow, ski tra					
				dow, ski tra					
				dow, ski lif					
				dow, ski lif	t, HSG D				
		,	ghted Aver	•					
	.045		4% Pervio						
0.	.610	36.8	6% Imper	vious Area					
Tc	Length	Slope	Velocity	Capacity	Description				
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)					
7.2	100	0.1600	0.23		Sheet Flow,				
					Grass: Dense n= 0.240 P2= 2.40"				
0.4	22	0.1600	1.00		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
3.1	173	0.1400	0.94		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
3.1	166	0.1300	0.90		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
13.8	461	Total							

Summary for Subcatchment 100S: WS 24

Runoff = 6.61 cfs @ 12.15 hrs, Volume= 0.556 af, Depth= 0.48"

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 Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.506	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.568	71	Existing meadow, non-grazed, HSG C
6.423	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.073	70	Existing Woods, Good, HSG C
5.770	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.038	98	Untreated proposed impervious, HSG D
0.017	71	Proposed developed meadow, non-grazed, HSG C
0.357	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.027	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
13.779	78	Weighted Average
13.235		96.05% Pervious Area
0.544		3.95% Impervious Area

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(1	Tc min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	7.4	100	0.1500	0.23	, ,	Sheet Flow,
						Grass: Dense n= 0.240 P2= 2.40"
	0.1	10	0.1500	2.71		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	4.4	210	0.1000	0.79		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.4	333	0.0900	14.75	44.26	
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	0.2	221	0.1100	16.31	48.94	
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	0.3	317	0.1100	16.31	48.94	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
		005	0.4400	40.40	55.04	n= 0.022
	0.3	305	0.1400	18.40	55.21	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
	0.2	244	0.1200	17.04	E1 11	n= 0.022
	0.2	24 1	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	0.1	130	0.2000	21.99	65.98	Trap/Vee/Rect Channel Flow,
	0.1	130	0.2000	21.99	05.90	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	0.2	224	0.1500	19.05	57.14	Trap/Vee/Rect Channel Flow,
	0.2	227	0.1000	10.00	07.14	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	2.1	118	0.1400	0.94		Shallow Concentrated Flow,
				0.0		Forest w/Heavy Litter Kv= 2.5 fps
	3.5	167	0.1000	0.79		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.1	89	0.1000	15.55	46.66	
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	0.1	105	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	19.4	2,578	Total			

Summary for Subcatchment 103S: WS 1-8

Runoff = 12.53 cfs @ 12.47 hrs, Volume= 2.013 af, Depth= 0.38"

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_	Area (ac)	CN	Description
	0.000	98	Untreated existing impervious, HSG A
	0.000	98	Untreated existing impervious, HSG C
	0.004	98	Untreated existing impervious, HSG D
	0.000	98	Existing impervious to be treated as offset, HSG D
	0.000	30	Existing meadow, non-grazed, HSG A
	0.000	71	Existing meadow, non-grazed, HSG C
	0.012	78	Existing meadow, non-grazed, HSG D
	0.000	30	Existing Woods, Good, HSG A
	9.906	70	Existing Woods, Good, HSG C
	17.781	77	Existing Woods, Good, HSG D
	2.274	70	Proposed Woods, Good, HSG C
	3.491	77	Proposed Woods, Good, HSG D
	0.000	98	Proposed impervious to be treated, HSG C
	0.000	98	Proposed impervious to be treated, HSG D
	0.000	98	Untreated proposed impervious, HSG C
	0.042	98	Untreated proposed impervious, HSG D
	0.006	71	Proposed developed meadow, non-grazed, HSG C
	0.000	78	Proposed developed meadow, non-grazed, HSG D
	0.000	71	Proposed developed meadow to be treated, HSG C
	0.000	78	Proposed developed meadow to be treated, HSG D
	8.051	71	Proposed meadow, ski trail, HSG C
	18.519	78	Proposed meadow, ski trail, HSG D
	2.211	71	Proposed meadow, ski lift, HSG C
_	1.103	78	Proposed meadow, ski lift, HSG D
	63.400	75	Weighted Average
	63.354		99.93% Pervious Area
	0.046		0.07% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	5.7	100	0.2900	0.29		Sheet Flow,
						Grass: Dense n= 0.240 P2= 2.40"
	1.1	249	0.2900	3.77		Shallow Concentrated Flow,
	0.0	074	0.0000	4.50		Short Grass Pasture Kv= 7.0 fps
	2.9	274	0.3900	1.56		Shallow Concentrated Flow,
	1.5	353	0.3300	4.02		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
	1.0	333	0.0000	7.02		Short Grass Pasture Kv= 7.0 fps
	0.6	277	0.2500	7.84	23.52	Trap/Vee/Rect Channel Flow, ditch
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.069 Riprap, 6-inch
	5.7	374	0.1900	1.09		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	5.8	462	0.2800	1.32		Shallow Concentrated Flow,
	0.0	570	0.0500	4.44		Forest w/Heavy Litter Kv= 2.5 fps
	2.3	579	0.3500	4.14		Shallow Concentrated Flow,
	4.4	294	0.2000	1.12		Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,
	4.4	294	0.2000	1.12		Forest w/Heavy Litter Kv= 2.5 fps
	10.3	639	0.1700	1.03		Shallow Concentrated Flow,
	10.0	000	0.1700	1.00		Forest w/Heavy Litter Kv= 2.5 fps
	0.6	363	0.1600	10.18	71.29	Trap/Vee/Rect Channel Flow,
						Bot.W=6.00' D=1.00' Z= 1.0 '/' Top.W=8.00'
						n= 0.050
	1.3	806	0.1600	10.18	71.29	Trap/Vee/Rect Channel Flow,
						Bot.W=6.00' D=1.00' Z= 1.0 '/' Top.W=8.00'
_						n= 0.050
	42.2	4,770	Total			

Summary for Reach 6R: stream

Inflow Area = 24.822 ac, 24.69% Impervious, Inflow Depth = 0.57" for 1-Year event

Inflow = 5.13 cfs @ 12.11 hrs, Volume= 1.182 af

Outflow = 5.01 cfs @ 12.14 hrs, Volume= 1.182 af, Atten= 2%, Lag= 1.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 4.96 fps, Min. Travel Time= 0.9 min Avg. Velocity = 1.38 fps, Avg. Travel Time= 3.4 min

Peak Storage= 288 cf @ 12.12 hrs

Average Depth at Peak Storage= 0.31', Surface Width= 3.62' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 132.62 cfs

3.00' x 2.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 7.00' Length= 280.0' Slope= 0.1643 '/' Inlet Invert= 1,815.00', Outlet Invert= 1,769.00'

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Summary for Reach 8R: ditch to stream

Inflow Area = 16.590 ac, 25.90% Impervious, Inflow Depth = 0.64" for 1-Year event

Inflow = 4.11 cfs @ 12.06 hrs, Volume= 0.878 af

Outflow = 4.01 cfs @ 12.11 hrs, Volume= 0.878 af, Atten= 2%, Lag= 3.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 4.82 fps, Min. Travel Time= 1.6 min Avg. Velocity = 1.39 fps, Avg. Travel Time= 5.7 min

Peak Storage= 397 cf @ 12.08 hrs Average Depth at Peak Storage= 0.26', Surface Width= 3.51' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 144.00 cfs

 $3.00' \times 2.00'$ deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 7.00' Length= 475.0' Slope= 0.1937 '/'

Inlet Invert= 1,910.00', Outlet Invert= 1,818.00'



Summary for Reach 9R: stream

Inflow Area = 48.906 ac, 9.82% Impervious, Inflow Depth = 0.39" for 1-Year event

Inflow = 7.84 cfs @ 12.44 hrs, Volume= 1.575 af

Outflow = 7.82 cfs @ 12.47 hrs, Volume= 1.575 af, Atten= 0%, Lag= 1.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 5.29 fps, Min. Travel Time= 1.0 min Avg. Velocity = 2.31 fps, Avg. Travel Time= 2.4 min

Peak Storage= 489 cf @ 12.45 hrs Average Depth at Peak Storage= 0.38', Surface Width= 4.26'

Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 139.42 cfs

3.50' x 2.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 7.50'

Length= 330.0' Slope= 0.1424 '/'

Inlet Invert= 1,787.00', Outlet Invert= 1,740.00'

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Summary for Reach 10R: stream

Inflow Area = 47.746 ac, 9.75% Impervious, Inflow Depth = 0.39" for 1-Year event

Inflow = 7.76 cfs @ 12.43 hrs, Volume= 1.541 af

Outflow = 7.75 cfs @ 12.44 hrs, Volume= 1.541 af, Atten= 0%, Lag= 0.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 5.60 fps, Min. Travel Time= 0.4 min

Avg. Velocity = 2.44 fps, Avg. Travel Time= 1.0 min

Peak Storage= 194 cf @ 12.43 hrs

Average Depth at Peak Storage= 0.36', Surface Width= 4.22' Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 152.96 cfs

3.50' x 2.00' deep channel, n= 0.050

Side Slope Z-value = 1.0 '/' Top Width = 7.50'

Length= 140.0' Slope= 0.1714 '/'

Inlet Invert= 1,814.00', Outlet Invert= 1,790.00'



Summary for Reach 11R: stream

Inflow Area = 17.266 ac, 10.36% Impervious, Inflow Depth = 0.41" for 1-Year event

Inflow = 4.58 cfs @ 12.34 hrs, Volume= 0.595 af

Outflow = 4.56 cfs @ 12.37 hrs, Volume= 0.595 af, Atten= 1%, Lag= 1.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity = 5.08 fps, Min. Travel Time = 1.0 min Avg. Velocity = 1.98 fps, Avg. Travel Time = 2.5 min

Peak Storage= 271 cf @ 12.35 hrs

Average Depth at Peak Storage= 0.28', Surface Width= 3.55'

Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 145.10 cfs

Type II 24-hr 1-Year Rainfall=2.00"
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3.00' x 2.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 7.00' Length= 300.0' Slope= 0.1967 '/' Inlet Invert= 1,910.00', Outlet Invert= 1,851.00'



Summary for Reach 14R: drinage ditch

Inflow Area = 3.366 ac, 24.54% Impervious, Inflow Depth = 0.48" for 1-Year event

Inflow = 2.08 cfs @ 12.06 hrs, Volume= 0.136 af

Outflow = 1.90 cfs @ 12.16 hrs, Volume= 0.136 af, Atten= 8%, Lag= 5.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 2.93 fps, Min. Travel Time= 3.4 min Avg. Velocity = 0.96 fps, Avg. Travel Time= 10.4 min

Peak Storage= 395 cf @ 12.10 hrs Average Depth at Peak Storage= 0.26', Surface Width= 3.04' Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 106.43 cfs

2.00' x 2.00' deep channel, n= 0.069 Side Slope Z-value= 2.0 '/' Top Width= 10.00' Length= 600.0' Slope= 0.1500 '/' Inlet Invert= 2,060.00', Outlet Invert= 1,970.00'



Summary for Reach 17R: stream

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 0.48" for 1-Year event

Inflow = 6.20 cfs @ 12.18 hrs, Volume= 0.721 af

Outflow = 6.15 cfs @ 12.20 hrs, Volume= 0.721 af, Atten= 1%, Lag= 1.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 5.76 fps, Min. Travel Time= 0.6 min Avg. Velocity = 1.02 fps, Avg. Travel Time= 3.3 min

Peak Storage= 219 cf @ 12.19 hrs

Average Depth at Peak Storage= 0.25', Surface Width= 4.51' Bank-Full Depth= 1.00' Flow Area= 5.0 sf, Capacity= 62.68 cfs

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4.00' x 1.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 6.00' Length= 204.0' Slope= 0.2696 '/' Inlet Invert= 1,711.00', Outlet Invert= 1,656.00'



Summary for Reach 19R: stream

Inflow Area = 16.549 ac, 14.99% Impervious, Inflow Depth = 0.48" for 1-Year event

Inflow = 6.11 cfs @ 12.16 hrs, Volume= 0.664 af

Outflow = 6.01 cfs @ 12.18 hrs, Volume= 0.664 af, Atten= 2%, Lag= 1.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Max. Velocity= 6.21 fps, Min. Travel Time= 0.7 min

Avg. Velocity = 1.18 fps, Avg. Travel Time= 3.6 min

Peak Storage= 249 cf @ 12.17 hrs Average Depth at Peak Storage= 0.41', Surface Width= 2.81' Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 63.50 cfs

2.00' x 1.50' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 5.00' Length= 254.0' Slope= 0.2087 '/' Inlet Invert= 1,770.00', Outlet Invert= 1,717.00'



Summary for Reach 23R: ditch

Inflow Area = 11.506 ac, 14.02% Impervious, Inflow Depth = 0.51" for 1-Year event

Inflow = 4.38 cfs @ 12.14 hrs, Volume= 0.492 af

Outflow = 4.29 cfs @ 12.20 hrs, Volume= 0.492 af, Atten= 2%, Lag= 3.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 4.77 fps, Min. Travel Time= 1.9 min Avg. Velocity = 0.85 fps, Avg. Travel Time= 10.8 min

Type II 24-hr 1-Year Rainfall=2.00"
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Peak Storage= 501 cf @ 12.16 hrs

Average Depth at Peak Storage= 0.28', Surface Width= 3.56' Bank-Full Depth= 1.00' Flow Area= 4.0 sf, Capacity= 38.44 cfs

3.00' x 1.00' deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 5.00'

Length= 550.0' Slope= 0.1727 '/'

Inlet Invert= 1,945.00', Outlet Invert= 1,850.00'



Summary for Reach 24R: ditch

Inflow Area = 8.652 ac, 9.56% Impervious, Inflow Depth = 0.47" for 1-Year event

Inflow = 3.70 cfs @ 12.11 hrs, Volume= 0.341 af

Outflow = 3.62 cfs @ 12.16 hrs, Volume= 0.341 af, Atten= 2%, Lag= 3.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 3.87 fps, Min. Travel Time= 1.7 min Avg. Velocity = 1.38 fps, Avg. Travel Time= 4.8 min

Peak Storage= 378 cf @ 12.12 hrs

Average Depth at Peak Storage= 0.27', Surface Width= 4.07' Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 163.35 cfs

3.00' x 2.00' deep channel, n= 0.069 Riprap, 6-inch

Side Slope Z-value = 2.0 '/' Top Width = 11.00'

Length= 400.0' Slope= 0.2375 '/'

Inlet Invert= 2,015.00', Outlet Invert= 1,920.00'



Summary for Reach 29R: stream

Inflow Area = 68.800 ac, 9.84% Impervious, Inflow Depth = 0.44" for 1-Year event

Inflow = 16.60 cfs @ 12.16 hrs, Volume= 2.547 af

Outflow = 16.26 cfs @ 12.22 hrs, Volume= 2.547 af, Atten= 2%, Lag= 3.3 min

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Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Max. Velocity= 6.03 fps, Min. Travel Time= 1.8 min Avg. Velocity = 0.97 fps, Avg. Travel Time= 11.1 min

Peak Storage= 1,751 cf @ 12.19 hrs Average Depth at Peak Storage= 0.73', Surface Width= 4.46' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 100.62 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders Side Slope Z-value= 1.0 '/' Top Width= 7.00' Length= 645.0' Slope= 0.0946 '/' Inlet Invert= 1,596.00', Outlet Invert= 1,535.00'



Summary for Reach 32R: dead end stream

Inflow Area = 36.642 ac, 8.77% Impervious, Inflow Depth = 0.42" for 1-Year event

Inflow = 6.47 cfs @ 12.12 hrs, Volume= 1.281 af

Outflow = 6.33 cfs @ 12.20 hrs, Volume= 1.281 af, Atten= 2%, Lag= 4.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Max. Velocity= 5.33 fps, Min. Travel Time= 2.4 min Avg. Velocity = 1.30 fps, Avg. Travel Time= 9.9 min

Peak Storage= 921 cf @ 12.15 hrs Average Depth at Peak Storage= 0.36', Surface Width= 3.71' Bank-Full Depth= 1.50' Flow Area= 6.8 sf, Capacity= 76.81 cfs

3.00' x 1.50' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 6.00' Length= 770.0' Slope= 0.1610 '/' Inlet Invert= 1,760.00', Outlet Invert= 1,636.00'



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Summary for Reach 34R: stream

Inflow Area = 30.406 ac, 6.66% Impervious, Inflow Depth = 0.38" for 1-Year event

Inflow = 4.32 cfs @ 12.62 hrs, Volume= 0.961 af

Outflow = 4.30 cfs @ 12.66 hrs, Volume= 0.961 af, Atten= 0%, Lag= 2.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 4.54 fps, Min. Travel Time= 1.4 min Avg. Velocity = 1.81 fps, Avg. Travel Time= 3.4 min

Peak Storage= 352 cf @ 12.63 hrs

Average Depth at Peak Storage= 0.29', Surface Width= 3.58' Bank-Full Depth= 1.50' Flow Area= 6.8 sf, Capacity= 73.80 cfs

 $3.00' \times 1.50'$ deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 6.00'

Length= 370.0' Slope= 0.1486 '/'

Inlet Invert= 1,815.00', Outlet Invert= 1,760.00'



Summary for Reach 35R: flow in wetland

Inflow Area = 24.244 ac, 4.80% Impervious, Inflow Depth = 0.33" for 1-Year event

Inflow = 3.47 cfs @ 12.49 hrs, Volume= 0.660 af

Outflow = 3.37 cfs @ 12.69 hrs, Volume= 0.660 af, Atten= 3%, Lag= 11.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 1.46 fps, Min. Travel Time= 6.9 min Avg. Velocity = 0.53 fps, Avg. Travel Time= 18.9 min

Peak Storage= 1,390 cf @ 12.57 hrs

Average Depth at Peak Storage= 0.19', Surface Width= 12.38' Bank-Full Depth= 1.00' Flow Area= 13.0 sf, Capacity= 53.58 cfs

12.00' x 1.00' deep channel, n= 0.100 Very weedy reaches w/pools

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 600.0' Slope= 0.0917 '/'

Inlet Invert= 2,080.00', Outlet Invert= 2,025.00'

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Summary for Reach 39R: stream

Inflow Area = 2.899 ac, 24.25% Impervious, Inflow Depth = 0.68" for 1-Year event

Inflow = 1.21 cfs @ 12.13 hrs, Volume= 0.163 af

Outflow = 1.03 cfs @ 12.33 hrs, Volume= 0.163 af, Atten= 15%, Lag= 12.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity = 2.48 fps, Min. Travel Time = 7.4 min Avg. Velocity = 0.89 fps, Avg. Travel Time = 20.7 min

Peak Storage= 465 cf @ 12.21 hrs

Average Depth at Peak Storage= 0.10', Surface Width= 4.21' Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 161.10 cfs

4.00' x 2.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 8.00'

Length= 1,100.0' Slope= 0.1527 '/'

Inlet Invert= 1,780.00', Outlet Invert= 1,612.00'



Summary for Reach 40R: stream

Inflow Area = 58.284 ac, 2.15% Impervious, Inflow Depth = 0.41" for 1-Year event

Inflow = 10.63 cfs @ 12.06 hrs, Volume= 2.010 af

Outflow = 10.03 cfs @ 12.15 hrs, Volume= 2.010 af, Atten= 6%, Lag= 5.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 4.45 fps, Min. Travel Time= 2.9 min

Avg. Velocity = 1.48 fps, Avg. Travel Time= 8.7 min

Peak Storage= 1,742 cf @ 12.10 hrs

Average Depth at Peak Storage= 0.36', Surface Width= 6.71' Bank-Full Depth= 2.00' Flow Area= 16.0 sf, Capacity= 186.92 cfs

6.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 10.00'

Length= 770.0' Slope= 0.1013 '/'

Inlet Invert= 1,563.00', Outlet Invert= 1,485.00'

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Summary for Reach 42R: stream

Inflow Area = 37.607 ac, 3.33% Impervious, Inflow Depth = 0.41" for 1-Year event

Inflow = 8.63 cfs @ 12.46 hrs, Volume= 1.297 af

Outflow = 8.15 cfs @ 12.68 hrs, Volume= 1.297 af, Atten= 6%, Lag= 13.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 5.08 fps, Min. Travel Time= 8.0 min Avg. Velocity = 1.47 fps, Avg. Travel Time= 27.7 min

Peak Storage= 3,926 cf @ 12.54 hrs

Average Depth at Peak Storage= 0.30', Surface Width= 5.61' Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 60.47 cfs

5.00' x 1.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 2,440.0' Slope= 0.1639 '/'

Inlet Invert= 1,973.00', Outlet Invert= 1,573.00'

Summary for Reach 45R: flow in wetland

Inflow Area = 26.451 ac, 1.62% Impervious, Inflow Depth = 0.38" for 1-Year event

Inflow = 6.96 cfs @ 12.27 hrs, Volume= 0.840 af

Outflow = 6.25 cfs @ 12.51 hrs, Volume= 0.840 af, Atten= 10%, Lag= 13.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 2.61 fps, Min. Travel Time= 7.7 min Avg. Velocity = 0.75 fps, Avg. Travel Time= 26.7 min

Peak Storage= 2,884 cf @ 12.37 hrs

Average Depth at Peak Storage= 0.36', Surface Width= 7.43' Bank-Full Depth= 1.00' Flow Area= 8.0 sf, Capacity= 37.72 cfs

6.00' x 1.00' deep channel, n= 0.100 Very weedy reaches w/pools

Side Slope Z-value= 2.0 '/' Top Width= 10.00'

Length= 1,200.0' Slope= 0.1442 '/'

Inlet Invert= 2,160.00', Outlet Invert= 1,987.00'

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Summary for Reach 102R: stream

Inflow Area = 321.351 ac, 5.57% Impervious, Inflow Depth > 0.41" for 1-Year event

Inflow = 48.27 cfs @ 12.59 hrs, Volume= 11.085 af

Outflow = 48.11 cfs @ 12.67 hrs, Volume= 11.085 af, Atten= 0%, Lag= 4.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 5.28 fps, Min. Travel Time= 2.8 min Avg. Velocity = 1.03 fps, Avg. Travel Time= 14.4 min

Peak Storage= 8,107 cf @ 12.62 hrs Average Depth at Peak Storage= 0.72', Surface Width= 13.43' Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 883.89 cfs

12.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 20.00' Length= 890.0' Slope= 0.0562 '/'

Inlet Invert= 1,480.00', Outlet Invert= 1,430.00'



Summary for Reach 103R: stream

Inflow Area = 118.865 ac, 0.17% Impervious, Inflow Depth = 0.38" for 1-Year event

Inflow = 22.69 cfs @ 12.50 hrs, Volume= 3.759 af

Outflow = 22.63 cfs @ 12.52 hrs, Volume= 3.759 af, Atten= 0%, Lag= 1.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity = 5.09 fps, Min. Travel Time = 0.9 min Avg. Velocity = 1.85 fps, Avg. Travel Time = 2.5 min

Peak Storage= 1,227 cf @ 12.51 hrs

Average Depth at Peak Storage= 0.52', Surface Width= 9.05' Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 440.61 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 275.0' Slope= 0.0800 '/'

Inlet Invert= 1,502.00', Outlet Invert= 1,480.00'

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Summary for Reach 104R: stream

Inflow Area = 190.718 ac, 9.01% Impervious, Inflow Depth > 0.43" for 1-Year event

Inflow = 25.89 cfs @ 12.67 hrs, Volume= 6.839 af

Outflow = 25.83 cfs @ 12.71 hrs, Volume= 6.839 af, Atten= 0%, Lag= 2.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 5.75 fps, Min. Travel Time= 1.4 min Avg. Velocity = 1.16 fps, Avg. Travel Time= 7.1 min

Peak Storage= 2,229 cf @ 12.69 hrs Average Depth at Peak Storage= 0.53', Surface Width= 9.06'

Average Depth at Peak Storage= 0.53', Surface Width= 9.06' Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 495.10 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 495.0' Slope= 0.1010 '/'

Inlet Invert= 1,530.00', Outlet Invert= 1,480.00'



Summary for Reach 108R: stream

Inflow Area = 31.149 ac, 0.22% Impervious, Inflow Depth = 0.35" for 1-Year event

Inflow = 6.43 cfs @ 12.35 hrs, Volume= 0.908 af

Outflow = 5.84 cfs @ 12.62 hrs, Volume= 0.908 af, Atten= 9%, Lag= 15.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 3.68 fps, Min. Travel Time= 8.9 min Avg. Velocity = 1.37 fps, Avg. Travel Time= 23.9 min

Peak Storage= 3,125 cf @ 12.47 hrs

Average Depth at Peak Storage= 0.19', Surface Width= 8.39' Bank-Full Depth= 2.00' Flow Area= 20.0 sf, Capacity= 291.19 cfs

8.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 12.00'

Length= 1,968.0' Slope= 0.1443 '/'

Inlet Invert= 1,810.00', Outlet Invert= 1,526.00'

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Summary for Reach 110R: stream

Inflow Area = 156.700 ac, 6.38% Impervious, Inflow Depth = 0.38" for 1-Year event

Inflow = 22.84 cfs @ 12.63 hrs, Volume= 5.015 af

Outflow = 22.77 cfs @ 12.71 hrs, Volume= 5.015 af, Atten= 0%, Lag= 5.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity = 6.72 fps, Min. Travel Time = 2.9 min Avg. Velocity = 1.36 fps, Avg. Travel Time = 14.4 min

Peak Storage= 3,983 cf @ 12.66 hrs

Average Depth at Peak Storage= 0.52', Surface Width= 7.04'

Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 465.00 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 12.00'

Length= 1,175.0' Slope= 0.1464 '/'

Inlet Invert= 1,714.00', Outlet Invert= 1,542.00'



Summary for Reach 111R: upperstream

Inflow Area = 13.616 ac, 5.02% Impervious, Inflow Depth = 0.41" for 1-Year event

Inflow = 2.14 cfs @ 12.49 hrs, Volume= 0.465 af

Outflow = 2.13 cfs @ 12.57 hrs, Volume= 0.465 af, Atten= 1%, Lag= 5.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 3.75 fps, Min. Travel Time= 3.0 min Avg. Velocity = 1.22 fps, Avg. Travel Time= 9.4 min

Peak Storage= 389 cf @ 12.52 hrs

Average Depth at Peak Storage= 0.18', Surface Width= 3.36' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 139.11 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 686.0' Slope= 0.1808 '/'

Inlet Invert= 2,074.00', Outlet Invert= 1,950.00'



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Summary for Reach 112R: stream

Inflow Area = 22.637 ac, 11.13% Impervious, Inflow Depth = 0.45" for 1-Year event

Inflow = 6.53 cfs @ 11.97 hrs, Volume= 0.846 af

Outflow = 5.39 cfs @ 12.10 hrs, Volume= 0.846 af, Atten= 17%, Lag= 7.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity = 4.52 fps, Min. Travel Time = 4.5 min Avg. Velocity = 1.21 fps, Avg. Travel Time = 16.9 min

Peak Storage= 1,526 cf @ 12.02 hrs

Average Depth at Peak Storage= 0.24', Surface Width= 5.47' Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 210.11 cfs

5.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 9.00'

Length= 1,230.0' Slope= 0.1772 '/'

Inlet Invert= 1,950.00', Outlet Invert= 1,732.00'



Summary for Reach 113R: ditch

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 0.48" for 1-Year event

Inflow = 6.15 cfs @ 12.20 hrs, Volume= 0.721 af

Outflow = 6.04 cfs @ 12.24 hrs, Volume= 0.721 af, Atten= 2%, Lag= 2.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 3.39 fps, Min. Travel Time= 1.2 min Avg. Velocity = 0.64 fps, Avg. Travel Time= 6.4 min

Peak Storage= 444 cf @ 12.22 hrs

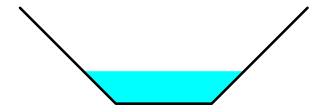
Average Depth at Peak Storage= 0.68', Surface Width= 3.35' Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 46.73 cfs

2.00' x 2.00' deep channel, n= 0.069

Side Slope Z-value= 1.0 '/' Top Width= 6.00'

Length= 245.0' Slope= 0.0694 '/'

Inlet Invert= 1,656.00', Outlet Invert= 1,639.00'



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Summary for Reach 114R: dead end channel

Inflow Area = 26.607 ac, 23.56% Impervious, Inflow Depth = 0.55" for 1-Year event

Inflow = 5.19 cfs @ 12.14 hrs, Volume= 1.229 af

Outflow = 5.12 cfs @ 12.17 hrs, Volume= 1.229 af, Atten= 1%, Lag= 1.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 6.54 fps, Min. Travel Time= 1.0 min Avg. Velocity = 1.94 fps, Avg. Travel Time= 3.4 min

Peak Storage= 318 cf @ 12.15 hrs

Average Depth at Peak Storage= 0.24', Surface Width= 3.49' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 200.37 cfs

3.00' x 2.00' deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 400.0' Slope= 0.3750 '/'

Inlet Invert= 1,750.00', Outlet Invert= 1,600.00'



Summary for Reach 115R: stream

Inflow Area = 41.779 ac, 7.74% Impervious, Inflow Depth = 0.38" for 1-Year event

Inflow = 6.76 cfs @ 12.47 hrs, Volume= 1.310 af

Outflow = 6.75 cfs @ 12.48 hrs, Volume= 1.310 af, Atten= 0%, Lag= 0.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 5.35 fps, Min. Travel Time= 0.4 min

Avg. Velocity = 2.36 fps, Avg. Travel Time= 0.9 min

Peak Storage= 164 cf @ 12.47 hrs

Average Depth at Peak Storage= 0.37', Surface Width= 3.75'

Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 128.34 cfs

 $3.00' \times 2.00'$ deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 130.0' Slope= 0.1538 '/'

Inlet Invert= 1,844.00', Outlet Invert= 1,824.00'



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Summary for Pond 2P: Culvert 7C Driveway

Inflow Area = 48.906 ac, 9.82% Impervious, Inflow Depth = 0.39" for 1-Year event

Inflow = 7.84 cfs @ 12.44 hrs, Volume= 1.575 af

Primary = 7.84 cfs @ 12.44 hrs, Volume= 1.575 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 3P: Culvert 7B -Road A

Inflow Area = 47.746 ac, 9.75% Impervious, Inflow Depth = 0.39" for 1-Year event

Inflow = 7.76 cfs @ 12.43 hrs, Volume= 1.541 af

Primary = 7.76 cfs @ 12.43 hrs, Volume= 1.541 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 4P: trail culvert

Inflow Area = 5.237 ac, 26.12% Impervious, Inflow Depth = 0.48" for 1-Year event

Inflow = 2.48 cfs @ 12.15 hrs, Volume= 0.211 af

Primary = 2.48 cfs @ 12.15 hrs, Volume= 0.211 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 5P: Culvert 7A

Inflow Area = 41.779 ac, 7.74% Impervious, Inflow Depth = 0.38" for 1-Year event

Inflow = 6.76 cfs @ 12.47 hrs, Volume= 1.310 af

Primary = 6.76 cfs @ 12.47 hrs, Volume= 1.310 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 7P: Culvert 6A

Inflow Area = 24.822 ac, 24.69% Impervious, Inflow Depth = 0.57" for 1-Year event

Inflow = 5.13 cfs @ 12.11 hrs, Volume= 1.182 af

Primary = 5.13 cfs @ 12.11 hrs, Volume= 1.182 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 8P: new 36

Inflow Area = 13.779 ac, 3.95% Impervious, Inflow Depth = 0.48" for 1-Year event

Inflow = 6.61 cfs @ 12.15 hrs, Volume= 0.556 af

Outflow = 6.61 cfs @ 12.15 hrs, Volume= 0.556 af, Atten= 0%, Lag= 0.0 min

Primary = 6.61 cfs @ 12.15 hrs, Volume= 0.556 af

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Peak Elev= 0.97' @ 12.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	36.0" Round Culvert
			L= 70.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 0.00' / -2.80' S= 0.0400 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=6.58 cfs @ 12.15 hrs HW=0.97' (Free Discharge) 1=Culvert (Inlet Controls 6.58 cfs @ 3.35 fps)

Summary for Pond 9P: new 36

Inflow Area = 27.913 ac, 22.52% Impervious, Inflow Depth = 0.55" for 1-Year event

Inflow 5.59 cfs @ 12.16 hrs, Volume= 1.274 af

Outflow 5.59 cfs @ 12.16 hrs, Volume= 1.274 af, Atten= 0%, Lag= 0.0 min =

5.59 cfs @ 12.16 hrs, Volume= Primary = 1.274 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 0.89' @ 12.16 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	36.0" Round Culvert
			L= 70.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 0.00' / -1.05' S= 0.0150 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=5.55 cfs @ 12.16 hrs HW=0.88' (Free Discharge) 1=Culvert (Inlet Controls 5.55 cfs @ 3.20 fps)

Summary for Pond 10P: new 36

20.993 ac, 12.16% Impervious, Inflow Depth = 0.48" for 1-Year event Inflow Area =

Inflow 6.86 cfs @ 12.22 hrs, Volume= 0.844 af

Outflow = 6.86 cfs @ 12.22 hrs, Volume= 0.844 af, Atten= 0%, Lag= 0.0 min

6.86 cfs @ 12.22 hrs, Volume= 0.844 af Primary

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 0.99' @ 12.22 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	36.0" Round Culvert
			L= 70.0' CMP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 0.00' / -2.10' S= 0.0300 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=6.79 cfs @ 12.22 hrs HW=0.98' (Free Discharge) 1=Culvert (Inlet Controls 6.79 cfs @ 3.37 fps)

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Summary for Pond 12P: new 48

Inflow Area = 75.057 ac, 9.07% Impervious, Inflow Depth = 0.44" for 1-Year event

Inflow = 18.35 cfs @ 12.20 hrs, Volume= 2.781 af

Outflow = 18.35 cfs @ 12.20 hrs, Volume= 2.781 af, Atten= 0%, Lag= 0.0 min

Primary = 18.35 cfs @ 12.20 hrs, Volume= 2.781 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1.52' @ 12.20 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	48.0" Round Culvert
			L= 50.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -2.80' S= 0.0560 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=18.31 cfs @ 12.20 hrs HW=1.52' (Free Discharge)
—1=Culvert (Inlet Controls 18.31 cfs @ 4.19 fps)

Summary for Pond 13P: Culvert 6B

Inflow Area = 26.607 ac, 23.56% Impervious, Inflow Depth = 0.55" for 1-Year event

Inflow = 5.19 cfs @ 12.14 hrs, Volume= 1.229 af

Primary = 5.19 cfs @ 12.14 hrs, Volume= 1.229 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 16P: trunk line from condos

Inflow Area = 5.094 ac, 51.81% Impervious, Inflow Depth = 0.91" for 1-Year event

Inflow = 8.21 cfs @ 11.94 hrs, Volume= 0.387 af

Outflow = 8.21 cfs @ 11.94 hrs, Volume= 0.387 af, Atten= 0%, Lag= 0.0 min

Primary = 8.21 cfs @ 11.94 hrs, Volume= 0.387 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,713.33' @ 11.94 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,712.00'	30.0" Round Culvert
			L= 700.0' CPP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 1,712.00' / 1,694.00' S= 0.0257 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=8.04 cfs @ 11.94 hrs HW=1,713.31' (Free Discharge) 1=Culvert (Inlet Controls 8.04 cfs @ 3.08 fps)

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Summary for Pond 18P: Culvert 5 - Trail

Inflow Area = 17.941 ac. 14.03% Impervious. Inflow Depth = 0.48" for 1-Year event

Inflow 6.20 cfs @ 12.18 hrs, Volume= 0.721 af

6.20 cfs @ 12.18 hrs, Volume= 0.721 af, Atten= 0%, Lag= 0.0 min Primary

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 20P: road culvert

Inflow Area = 16.549 ac, 14.99% Impervious, Inflow Depth = 0.48" for 1-Year event

6.11 cfs @ 12.16 hrs, Volume= Inflow = 0.664 af

6.11 cfs @ 12.16 hrs, Volume= 0.664 af, Atten= 0%, Lag= 0.0 min Outflow =

6.11 cfs @ 12.16 hrs, Volume= Primary 0.664 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,774.56' @ 12.16 hrs

Device Routing Invert Outlet Devices 72.0" Round Culvert w/ 24.0" inside fill #1 Primary 1.774.00 L= 50.0' CMP, projecting, no headwall, Ke= 0.900

Inlet / Outlet Invert= 1,772.00' / 1,771.00' S= 0.0200 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 20.02 sf

Primary OutFlow Max=6.04 cfs @ 12.16 hrs HW=1,774.55' (Free Discharge)

-1=Culvert (Inlet Controls 6.04 cfs @ 1.88 fps)

Summary for Pond 21P: Pipe Down Slope

Inflow Area = 14.576 ac, 16.67% Impervious, Inflow Depth = 0.51" for 1-Year event

5.65 cfs @ 12.17 hrs, Volume= Inflow 0.616 af

Outflow 5.66 cfs @ 12.17 hrs, Volume= 0.616 af, Atten= 0%, Lag= 0.0 min

5.66 cfs @ 12.17 hrs, Volume= 0.616 af Primary

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Peak Elev= 1,812.92' @ 12.17 hrs Surf.Area= 0.001 ac Storage= 0.001 af

Plug-Flow detention time= 0.4 min calculated for 0.616 af (100% of inflow)

Center-of-Mass det. time= 0.4 min (1,003.6 - 1,003.2)

Volume Invert Avail.Storage Storage Description 0.016 af 8.00'D x 14.00'H Vertical Cone/Cylinder #1 1.812.00' Invert Outlet Devices

48.0" Round Culvert #1 Primary 1.812.00'

L= 100.0' CMP, projecting, no headwall, Ke= 0.900

Inlet / Outlet Invert= 1,812.00' / 1,780.00' S= 0.3200 '/' Cc= 0.900

n= 0.025 Corrugated metal, Flow Area= 12.57 sf

Primary OutFlow Max=5.54 cfs @ 12.17 hrs HW=1,812.91' (Free Discharge)

1=Culvert (Inlet Controls 5.54 cfs @ 2.57 fps)

Device

Routing

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Summary for Pond 22P: Pipe Down Slope

Inflow Area = 14.576 ac, 16.67% Impervious, Inflow Depth = 0.51" for 1-Year event

Inflow = 5.65 cfs @ 12.17 hrs, Volume= 0.616 af

Outflow = 5.65 cfs @ 12.17 hrs, Volume= 0.616 af, Atten= 0%, Lag= 0.0 min

Primary = 5.65 cfs @ 12.17 hrs, Volume= 0.616 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,822.82' @ 12.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,822.00'	48.0" Round Culvert L= 100.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,822.00' / 1,818.00' S= 0.0400 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 12.57 sf

Primary OutFlow Max=5.57 cfs @ 12.17 hrs HW=1,822.81' (Free Discharge) 1=Culvert (Inlet Controls 5.57 cfs @ 3.06 fps)

Summary for Pond 25P: road culvert

Inflow Area = 5.782 ac, 8.73% Impervious, Inflow Depth = 0.45" for 1-Year event

Inflow = 2.27 cfs @ 12.18 hrs, Volume= 0.216 af

Primary = 2.27 cfs @ 12.18 hrs, Volume= 0.216 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 26P: road culvert

Inflow Area = 2.870 ac, 11.22% Impervious, Inflow Depth = 0.52" for 1-Year event

Inflow = 1.99 cfs @ 12.05 hrs, Volume= 0.125 af

Primary = 1.99 cfs @ 12.05 hrs, Volume= 0.125 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 28P: road culvert

Inflow Area = 11.506 ac, 14.02% Impervious, Inflow Depth = 0.51" for 1-Year event

Inflow = 4.38 cfs @ 12.14 hrs, Volume= 0.492 af

Primary = 4.38 cfs @ 12.14 hrs, Volume= 0.492 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 30P: Culvert 4 -Trail

Inflow Area = 15.570 ac, 7.12% Impervious, Inflow Depth = 0.46" for 1-Year event

Inflow = 5.42 cfs @ 12.16 hrs, Volume= 0.600 af

Primary = 5.42 cfs @ 12.16 hrs, Volume= 0.600 af, Atten= 0%, Lag= 0.0 min

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Summary for Pond 31P: Trail Culvert

Inflow Area = 49.423 ac, 9.08% Impervious, Inflow Depth = 0.41" for 1-Year event

Inflow = 10.95 cfs @ 12.17 hrs, Volume= 1.705 af

Outflow = 10.95 cfs @ 12.17 hrs, Volume= 1.705 af, Atten= 0%, Lag= 0.0 min

Primary = 10.95 cfs @ 12.17 hrs, Volume= 1.705 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,627.15' @ 12.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary		72.0" Round Culvert L= 300.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,626.00' / 1,610.00' S= 0.0533 '/' Cc= 0.900
			n= 0.025 Corrugated metal, Flow Area= 28.27 sf

Primary OutFlow Max=10.81 cfs @ 12.17 hrs HW=1,627.14' (Free Discharge)
1=Culvert (Inlet Controls 10.81 cfs @ 2.88 fps)

Summary for Pond 33P: Culvert 12 -Road

Inflow Area = 36.642 ac, 8.77% Impervious, Inflow Depth = 0.42" for 1-Year event

Inflow = 6.47 cfs @ 12.12 hrs, Volume= 1.281 af

Primary = 6.47 cfs @ 12.12 hrs, Volume= 1.281 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 36P: trail culvert

Inflow Area = 24.244 ac. 4.80% Impervious. Inflow Depth = 0.33" for 1-Year event

Inflow = 3.47 cfs @ 12.49 hrs, Volume= 0.660 af

Primary = 3.47 cfs @ 12.49 hrs, Volume= 0.660 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 37P: Road E Culvert

Inflow Area = 27.875 ac, 6.15% Impervious, Inflow Depth = 0.36" for 1-Year event

Inflow = 4.03 cfs @ 12.64 hrs, Volume= 0.842 af

Primary = 4.03 cfs @ 12.64 hrs, Volume= 0.842 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 38P: Road A Culvert

Inflow Area = 21.776 ac, 3.80% Impervious, Inflow Depth = 0.32" for 1-Year event

Inflow = 3.27 cfs @ 12.50 hrs, Volume= 0.581 af

Primary = 3.27 cfs @ 12.50 hrs, Volume= 0.581 af, Atten= 0%, Lag= 0.0 min

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Summary for Pond 41P: Culvert 3 - Trail 3

Inflow Area = 58.284 ac, 2.15% Impervious, Inflow Depth = 0.41" for 1-Year event

Inflow = 10.63 cfs @ 12.06 hrs, Volume= 2.010 af

Primary = 10.63 cfs @ 12.06 hrs, Volume= 2.010 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 43P: Culvert 11 -Trail 3

Inflow Area = 35.358 ac, 2.93% Impervious, Inflow Depth = 0.41" for 1-Year event

Inflow = 8.06 cfs @ 12.47 hrs, Volume= 1.199 af

Primary = 8.06 cfs @ 12.47 hrs, Volume= 1.199 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 44P: Culvert 13 -Road A

Inflow Area = 26.451 ac, 1.62% Impervious, Inflow Depth = 0.38" for 1-Year event

Inflow = 6.96 cfs @ 12.27 hrs, Volume= 0.840 af

Primary = 6.96 cfs @ 12.27 hrs, Volume= 0.840 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 105P: Culvert 1 - Trail

Inflow Area = 180.600 ac, 7.35% Impervious, Inflow Depth = 0.41" for 1-Year event

Inflow = 25.63 cfs @ 12.67 hrs, Volume= 6.168 af

Primary = 25.63 cfs @ 12.67 hrs, Volume= 6.168 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 106P: Culvert 2- Trail 2

Inflow Area = 118.865 ac, 0.17% Impervious, Inflow Depth = 0.38" for 1-Year event

Inflow = 22.69 cfs @ 12.50 hrs, Volume= 3.759 af

Primary = 22.69 cfs @ 12.50 hrs, Volume= 3.759 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 107P: Culvert 10 -Trail 2

Inflow Area = 31.149 ac, 0.22% Impervious, Inflow Depth = 0.35" for 1-Year event

Inflow = 6.43 cfs @ 12.35 hrs, Volume= 0.908 af

Primary = 6.43 cfs @ 12.35 hrs, Volume= 0.908 af, Atten= 0%, Lag= 0.0 min

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Summary for Pond 108P: new 36

Inflow Area = 50.264 ac, 9.71% Impervious, Inflow Depth = 0.39" for 1-Year event

Inflow = 7.95 cfs @ 12.46 hrs, Volume= 1.629 af

Outflow = 7.95 cfs @ 12.46 hrs, Volume= 1.629 af, Atten= 0%, Lag= 0.0 min

Primary = 7.95 cfs @ 12.46 hrs, Volume= 1.629 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,741.07' @ 12.46 hrs

<u>Device</u>	Routing	Invert	Outlet Devices
#1	Primary	1,740.00'	36.0" Round Culvert
			L= 70.0' CMP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 1,740.00' / 1,738.00' S= 0.0286 '/' Cc= 0.900
			n= 0.025 Corrugated metal, Flow Area= 7.07 sf

Primary OutFlow Max=7.94 cfs @ 12.46 hrs HW=1,741.07' (Free Discharge) 1=Culvert (Inlet Controls 7.94 cfs @ 3.52 fps)

Summary for Pond 109P: Culvert 9-Trail Crossing

Inflow Area = 87.844 ac, 2.93% Impervious, Inflow Depth = 0.35" for 1-Year event

Inflow = 11.20 cfs @ 12.63 hrs, Volume= 2.575 af

Primary = 11.20 cfs @ 12.63 hrs, Volume= 2.575 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond P1: Condos Complex Wet Pond

Inflow Are	ea =	11.937 ac, 34.04% Impervious, Inflow De	pth = 0.72" for 1-Year event
Inflow	=	12.49 cfs @ 11.95 hrs, Volume=	0.715 af
Outflow	=	0.31 cfs @ 17.33 hrs, Volume=	0.709 af, Atten= 98%, Lag= 323.1 min
Primary	=	0.31 cfs @ 17.33 hrs, Volume=	0.709 af

Primary = 0.31 cfs @ 17.33 hrs, Volume= 0.709 at Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,684.00' Surf.Area= 29,057 sf Storage= 54,189 cf

Peak Elev= 1,685.07' @ 17.33 hrs Surf.Area= 35,936 sf Storage= 74,071 cf (19,883 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= 889.0 min (1,736.8 - 847.8)

Volume	Invert	Avail.Storage	Storage Description
#1	1,678.00'	54,189 cf	Permanent Pool (Irregular)Listed below (Recalc)
#2	1,684.00'	66,450 cf	CPv (Irregular)Listed below (Recalc)
•		100.000.5	

120,639 cf Total Available Storage

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Elevation		Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area
(fee		(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,678.0		4,365	481.7	0	0	4,365
1,679.0		5,839	500.5	5,084	5,084	5,914
1,680.0		7,369	519.4	6,589	11,673	7,531
1,681.0		8,954	538.2	8,149	19,822	9,199
1,682.0		10,598	557.1	9,764	29,586	10,935
1,683.0		12,297	575.9	11,437	41,023	12,722
1,684.0	00	14,053	594.8	13,165	54,189	14,578
Elevation	on	Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area
(fee	et)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,684.0	00	15,004	752.2	0	0	15,004
1,685.0		21,703	791.7	18,251	18,251	19,918
1,686.0		24,167	734.9	22,924	41,175	26,860
1,687.0		26,400	753.8	25,275	66,450	29,220
Device	Routing	Inv	art Outlet	Devices		
#1	Primary	1,681.0		Round Culvert	المسلم مما مما	(a= 0.000
					ing, no headwall, k	
						S= 0.0100 '/' Cc= 0.900
110	D	4 00 4 4			interior, Flow Area	
#2	Device 1	1,684.0				ed to weir flow at low heads
#3	Device 1	1,686.0		Horiz. Orifice/Gra		
		4 000		d to weir flow at lo		
#4	Seconda	ry 1,686.0			h Broad-Crested F	
				` '		20 1.40 1.60 1.80 2.00
				3.00 3.50 4.00 4		
						2.68 2.66 2.64 2.64
			2.64	2.65 2.65 2.66 2	.66 2.68 2.70 2.74	4

Primary OutFlow Max=0.31 cfs @ 17.33 hrs HW=1,685.07' (Free Discharge)

-1=Culvert (Passes 0.31 cfs of 20.94 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.31 cfs @ 4.64 fps) 3=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,684.00' (Free Discharge) 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P10: Lot R31 Soil Filter

Inflow Area =	8.042 ac, 30.75% Impervious, Inflow	Depth = 0.74" for 1-Year event
Inflow =	6.15 cfs @ 12.00 hrs, Volume=	0.495 af
Outflow =	0.32 cfs @ 15.13 hrs, Volume=	0.495 af, Atten= 95%, Lag= 188.1 min
Primary =	0.32 cfs @ 15.13 hrs, Volume=	0.495 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,975.33' Surf.Area= 4,651 sf Storage= 614 cf

Peak Elev= 1,979.31' @ 15.13 hrs Surf.Area= 5,963 sf Storage= 12,494 cf (11,880 cf above start)

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Plug-Flow detention time= 486.2 min calculated for 0.481 af (97% of inflow) Center-of-Mass det. time= 452.0 min (1,311.3 - 859.3)

Volume	Invert	Avail.S	Storage	Storage	Description		
#1	1,975.00'	53	3,120 cf	Custom	Stage Data (Irregu	ılar)Listed below (I	Recalc)
	_						
Elevation		ırf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area
(feet)		(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,975.00)	4,651	326.9	0.0	0	0	4,651
1,976.50)	4,651	326.9	40.0	2,791	2,791	5,141
1,978.00)	4,651	326.9	40.0	2,791	5,581	5,632
1,980.00)	6,726	364.6	100.0	11,313	16,895	7,818
1,982.00)	9,027	402.3	100.0	15,697	32,591	10,244
1,984.00		11,554	440.0	100.0	20,529	53,120	12,907
•		•			,	•	•
Device	Routing	Inve	ert Outle	et Devices	3		
#1	Primary	1,974.0	0' 24.0	" Round	Culvert		
			L= 1	00.0' CP	P, projecting, no he	adwall, Ke= 0.900	0
			Inlet	/ Outlet Ir	nvert= 1,974.00' / 1,	972.00' S= 0.020	00 '/' Cc= 0.900
			n= 0	.011 PVC	C, smooth interior, F	Flow Area= 3.14 sf	f
#2	Device 1	1,975.3	3' 2.5"	Vert. Orif	fice/Grate C= 0.60	00 Limited to weir	r flow at low heads
#3	Device 2	1,975.0	0' 3.00	0 in/hr Ex	filtration over Sur	face area	
#4	Device 1	1,982.0	0' 24.0	" Horiz. C	Orifice/Grate C= 0.	.600	
		,	Limit	ed to weir	r flow at low heads		
#5	Secondary	1,982.7	0' 6.0'	long x8.	0' breadth Broad-0	Crested Rectangu	ular Weir
	,	,			.20 0.40 0.60 0.80		
					50 4.00 4.50 5.00		
) 2.43 2.54 2.70 2		.66 2.64 2.64
					55 2.66 2.66 2.68		
						· ·	

Primary OutFlow Max=0.32 cfs @ 15.13 hrs HW=1,979.31' (Free Discharge)

-1=Culvert (Passes 0.32 cfs of 24.78 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.32 cfs @ 9.47 fps)
-3=Exfiltration (Passes 0.32 cfs of 0.41 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,975.33' (Free Discharge)

5=Broad-Creeted Posternoville Max (Control of the Control of the Con -5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11: Parking Lot G Wet Pond

Inflow Area =	8.304 ac, 46.98% Impervious, Inflow	Depth = 0.90" for 1-Year event
Inflow =	13.46 cfs @ 11.95 hrs, Volume=	0.624 af
Outflow =	0.12 cfs @ 24.02 hrs, Volume=	0.604 af, Atten= 99%, Lag= 724.2 min
Primary =	0.12 cfs @ 24.02 hrs, Volume=	0.604 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,534.10' Surf.Area= 24,527 sf Storage= 51,257 cf

Peak Elev= 1,535.45' @ 24.02 hrs Surf.Area= 30,166 sf Storage= 73,444 cf (22,187 cf above start)

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Plug-Flow detention time= (not calculated: initial storage exceeds outflow) Center-of-Mass det. time= 2,130.5 min (2,966.0 - 835.5)

Invert	Avail	.Storage	Storage Description						
1,527.00'	4	19,963 cf	Permanent Pool (Irregular)Listed below (Recalc)						
1,534.00'	7	77,661 cf							
	12	27,624 cf	Total Available St	orage					
n Sı	urf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area				
:)	(sq-ft)	(feet)	eet) (cubic-feet) (cubic-feet)		(sq-ft)				
0	3,398 312.2		0	0	3,398				
0	4,364	331.3	3,871	3,871	4,428	4,428			
0	5,386	350.1	4,866	8,737					
0	6,465 369.0		5,917	14,654	6,642	6,642			
0	7,600	387.8	7,025	21,679	7,836				
2.00 8,792		406.7	8,189	29,868	9,095				
33.00 10,040		425.5	9,409	39,277	10,408				
0	11,345	444.4	10,686	49,963	11,787				
n Sı	urf.Area	Perim.	Inc.Store	Cum.Store	Wet Area				
					•				
					•				
•		624.8	•		27,961				
Routing	Inv	vert Outle	et Devices						
Filliary	1,550.			ting no headwall	Ka- 0 000				
						200			
						000			
Device 1	1 534					neads			
Bovico i	1,000.								
Secondary	1.536.				Rectangular Weir				
Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64									
	1,527.00' 1,534.00' n St 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,527.00' 24 1,534.00' 7 12 n Surf.Area (sq-ft) 0 3,398 0 4,364 0 5,386 0 6,465 0 7,600 0 8,792 0 10,040 0 11,345 n Surf.Area (sq-ft) 0 12,700 0 17,927 0 19,949 0 21,739 0 23,585 Routing Inv Primary 1,530 Device 1 1,534 Device 1 1,536	1,527.00' 49,963 cf 1,534.00' 77,661 cf 127,624 cf n Surf.Area Perim. (sq-ft) (feet) 0 3,398 312.2 0 4,364 331.3 0 5,386 350.1 0 6,465 369.0 0 7,600 387.8 0 8,792 406.7 0 10,040 425.5 0 11,345 444.4 n Surf.Area Perim. (sq-ft) (feet) 0 12,700 621.7 0 17,927 661.0 0 12,700 621.7 0 17,927 661.0 0 19,949 587.1 0 21,739 606.0 0 23,585 624.8 Routing Invert Outled Primary 1,530.00' 36.0 L= 1 Inlet n= 0 Device 1 1,534.10' 2.0" Device 1 1,536.60' 36.0 Secondary 1,536.90' 8.0' Head 2.50 Coef	1,527.00' 49,963 cf 77,661 cf 77,661 cf CPv (Irregular) Li 127,624 cf Total Available St 127,625 cf 127,625 cf 127,626 c	1,527.00' 1,534.00' 49,963 cf 77,661 cf 77,661 cf 77,661 cf CPv (Irregular) Listed below (Recal 127,624 cf Total Available Storage In Surf.Area Perim. Inc.Store Cum.Store (cubic-feet) (cubic-feet) (cubic-feet) 0 3,398 312.2 0 0 0 1 4,364 331.3 3,871 3,871 3,871 0 0 5,386 350.1 4,866 8,737 0 0 6,465 369.0 5,917 14,654 0 0 7,600 387.8 7,025 21,679 0 0 8,792 406.7 8,189 29,868 0 0 10,040 425.5 9,409 39,277 0 11,345 444.4 10,686 49,963 0 In Surf.Area Perim. Inc.Store Cum.Store (sq-ft) (feet) (cubic-feet) (cubic-feet) (cubic-feet) (cubic-feet) (20 17,927 661.0 15,239 15,239 15,239 19,949 587.1 18,929 34,168 0 21,739 606.0 20,838 55,005 0 23,585 624.8 22,656 77,661 Routing Invert Outlet Devices Primary 1,530.00' 36.0" Round Culvert L= 100.0' CPP, projecting, no headwall, Inlet / Outlet Invert= 1,530.00' / 1,528.00' n= 0.011 PVC, smooth interior, Flow Are Device 1 1,534.10' 2.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads Secondary 1,536.90' 8.0' breadth Broad-Crested Head (feet) 0.20 0.40 0.60 0.80 1.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.40 0.60 0.80 1.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.40 0.60 0.80 1.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.40 0.60 0.80 1.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.40 0.60 0.80 1.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.40 0.60 0.80 1.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.40 0.60 0.80 1.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.40 0.60 0.80 1.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.40 0.60 0.80 1.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.40 2.60 0.80 1.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.40 2.60 0.80 1.00 2.40 0.60 0.80 1.00 2.40 0.60 0.80 1.00 2.40 0.60 0.80 1.00 2.40 0.60 0.80 1.00 2.40 0.60	1,527.00'			

Primary OutFlow Max=0.12 cfs @ 24.02 hrs HW=1,535.45' (Free Discharge)

-1=Culvert (Passes 0.12 cfs of 53.39 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.12 cfs @ 5.42 fps)

-3=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,534.10' (Free Discharge) 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

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Summary for Pond P12: Drop-off Parking Lot Soil Filter

Inflow Area = 4.069 ac, 25.29% Impervious, Inflow Depth = 0.72" for 1-Year event

Inflow 3.79 cfs @ 11.94 hrs, Volume= 0.244 af

0.11 cfs @ 17.10 hrs, Volume= Outflow 0.244 af, Atten= 97%, Lag= 309.7 min

Primary = 0.11 cfs @ 17.10 hrs, Volume= 0.244 af 0.00 cfs @ 0.00 hrs, Volume= 0.000 af Secondary =

Routing by Stor-Ind method. Time Span= 0.00-120.00 hrs. dt= 0.05 hrs.

Starting Elev= 1,466.33' Surf.Area= 3,179 sf Storage= 420 cf

Peak Elev= 1,469.89' @ 17.10 hrs Surf.Area= 3,861 sf Storage= 6,949 cf (6,529 cf above start)

Plug-Flow detention time= 776.3 min calculated for 0.234 af (96% of inflow)

Center-of-Mass det. time= 718.4 min (1,573.8 - 855.4)

Volume	Invert	Avail.S	Storage	Storage Description						
#1	1,466.00')' 30,846 cf		Custom Stage Data (Irregular)Listed below (Recalc)						
Clayatia	n C	rf Araa	Dorino	Voido	Ina Ctara	Cum Store	Mot Area			
Elevatio		rf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area			
(feet	,	(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)			
1,466.0		3,179	247.1	0.0	0	0	3,179			
1,467.5		3,179	247.1	40.0	1,907	1,907	3,550			
1,469.0	0	3,179	247.1	40.0	1,907	3,815	3,920			
1,470.0	0	3,948	265.9	100.0	3,557	7,371	4,730			
1,472.0	0	5,657	303.6	100.0	9,554	16,925	6,530			
1,473.0	0	7,016	329.2	100.0	6,324	23,250	7,858			
1,474.0	0	8,192	360.5	100.0	7,596	30,846	9,610			
Device	Routing	Inve	rt Outle	et Device	S					
#1	Primary	1,466.0	166.00' 18.0" Round Outlet Culvert							
	•	L= 100.0' CPP, projecting, no headwall, Ke= 0.900								
		Inlet / Outlet Invert= 1,466.00' / 1,464.00' S= 0.0200 '/' Cc= 0.900				0 '/' Cc= 0.900				
			n= 0	.013 Cor	rugated PE, smooth	n interior, Flow Are	ea= 1.77 sf			
#2	Device 1	1,466.3		1.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads						
#3	Device 2	1,466.0								
#4	Device 1	1,472.5		24.0" Horiz. Orifice/Grate C= 0.600						
		,		ted to wei	ir flow at low heads					
#5	Secondary	1,473.0			.0' breadth Broad-	Crested Rectangi	ılar Weir			
,, 0		.,		Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00						
				2.50 3.00 3.50 4.00 4.50 5.00 5.50						
				Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64						
					65 2.66 2.66 2.68		.00 2.01 2.01			
			2.01	2.00 2.0	20 2.00 2.00	2.70 2.74				

Primary OutFlow Max=0.11 cfs @ 17.10 hrs HW=1,469.89' (Free Discharge)

-1=Outlet Culvert (Passes 0.11 cfs of 11.91 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.11 cfs @ 9.01 fps)
-3=Exfiltration (Passes 0.11 cfs of 0.27 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,466.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

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Summary for Pond P13: Parking Lot H Wet Pond

Inflow Area = 2.921 ac, 40.05% Impervious, Inflow Depth = 0.85" for 1-Year event
Inflow = 4.85 cfs @ 11.93 hrs, Volume= 0.207 af
Outflow = 0.09 cfs @ 16.95 hrs, Volume= 0.206 af, Atten= 98%, Lag= 300.9 min

Primary = 0.09 cfs @ 16.95 hrs, Volume= 0.206 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,567.00' Surf.Area= 11,858 sf Storage= 14,847 cf

Peak Elev= 1,567.79' @ 16.95 hrs Surf.Area= 14,824 sf Storage= 20,688 cf (5,841 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= 900.7 min (1,739.0 - 838.3)

	_						
<u>Volume</u>	Invert		Storage	Storage Description			
#1	1,561.00'		4,847 cf	Permanent Pool			
#2	1,567.00'	3	0,200 cf	CPv (Irregular)Li	sted below (Reca	lc)	
		4:	5,047 cf	Total Available St	orage		
Elevatio		ırf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area	
(fee	t)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)	
1,561.0	0	495	188.6	0	0	495	
1,566.0	0	4,031	282.9	9,898	9,898	4,224	
1,567.0	0	5,929	467.9	4,950	14,847	15,284	
Elevatio	n Su	ırf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area	
(fee	t)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)	
1,567.0	0	5,929	467.9	0	0	5,929	
1,568.0	0	9,766	479.1	7,768	7,768	6,897	
1,569.0	0	11,246	454.1	10,497	18,265	8,811	
1,570.0	0	12,637	473.0	11,935	30,200	10,280	
Device	Routing	Inv	ert Outle	et Devices			
#1	Primary	1,560.0	00' 36.0	" Round Culvert			
	•		L= 1	00.0' CPP, project	ting, no headwall,	Ke= 0.900	
			Inlet	/ Outlet Invert= 1,5	560.00' / 1,559.00'	' S= 0.0100 '/' Co	c = 0.900
			n= 0	.011 PVC, smooth	interior, Flow Are	ea= 7.07 sf	
#2	Device 1	1,567.0	00' 2.0"	Vert. Orifice/Grat	e C= 0.600 Lim	ited to weir flow at	low heads
#3	Device 1	1,568.8	30' 24.0	24.0" Horiz. Orifice/Grate C= 0.600			
	Limited to weir flow at low heads						
#4	Secondary	1,569.0		long x 8.0' bread			
				d (feet) 0.20 0.40		1.20 1.40 1.60 1	.80 2.00
			2.50	3.00 3.50 4.00 4	4.50 5.00 5.50		

Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64

2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

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Primary OutFlow Max=0.09 cfs @ 16.95 hrs HW=1,567.79' (Free Discharge)

1=Culvert (Passes 0.09 cfs of 67.41 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.09 cfs @ 4.06 fps)

-3=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,567.00' (Free Discharge) 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P14: Timbers 1-7 Wet Pond

Inflow Area = 7.622 ac, 23.79% Impervious, Inflow Depth = 0.52" for 1-Year event Inflow = 7.66 cfs @ 11.94 hrs, Volume= 0.332 af

Outflow = 0.13 cfs @ 18.96 hrs, Volume= 0.329 af, Atten= 98%, Lag= 421.5 min

Primary = 0.13 cfs @ 18.96 hrs, Volume= 0.329 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,721.00' Surf.Area= 19,738 sf Storage= 31,523 cf

Peak Elev= 1,721.78' @ 18.96 hrs Surf.Area= 23,794 sf Storage= 40,725 cf (9,202 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= 947.1 min (1,815.8 - 868.7)

Volume	Invert	Avail.Storage	Storage Description
#1	1,715.00'	31,523 cf	Permanent Pool (Irregular)Listed below (Recalc)
#2	1,721.00'	46,722 cf	CPv (Irregular)Listed below (Recalc)

78,245 cf Total Available Storage

		,		o .	
Elevation	Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area
(feet)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,715.00	1,909	325.0	0	0	1,909
1,716.00	2,912	343.8	2,393	2,393	2,964
1,717.00	3,972	362.7	3,428	5,821	4,084
1,718.00	5,088	381.6	4,519	10,340	5,263
1,719.00	6,261	400.4	5,664	16,004	6,497
1,720.00	7,490	419.3	6,866	22,870	7,796
1,721.00	9,869	603.5	8,652	31,523	22,797
Elevation	Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area
(feet)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,721.00	9,869	603.5	0	0	9,869
1,722.00	15,216	645.8	12,446	12,446	14,120
1,723.00	17,184	596.9	16,190	28,636	18,996
1,724.00	19,003	615.8	18,086	46,722	20,918

Device Routing Invert Outlet Devices

#1 Primary 1,714.00' **36.0" Round Culvert**

L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,714.00' / 1,713.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 7.07 sf

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#2	Device 1	1,721.00'	2.5" Vert. Orifice/Grate - Gravel Bench Underdrain C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,722.40'	24.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#4	Secondary	1.722.80'	8.0' long x 8.0' breadth Broad-Crested Rectangular Weir
	,	.,	Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00
			2.50 3.00 3.50 4.00 4.50 5.00 5.50
			Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64
			2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.13 cfs @ 18.96 hrs HW=1,721.78' (Free Discharge)

-1=Culvert (Passes 0.13 cfs of 67.32 cfs potential flow)

2=Orifice/Grate - Gravel Bench Underdrain(Orifice Controls 0.13 cfs @ 3.95 fps)

-3=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,721.00' (Free Discharge)
4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Summary for Pond P16: Timbers 10 Soil Filter

Inflow Area =	0.660 ac, 35.00% Impervious, Inflow D	Depth = 0.65" for 1-Year event
Inflow =	0.84 cfs @ 11.93 hrs, Volume=	0.036 af
Outflow =	0.09 cfs @ 12.36 hrs, Volume=	0.038 af, Atten= 89%, Lag= 25.5 min
Primary =	0.09 cfs @ 12.36 hrs, Volume=	0.038 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 2,085.33' Surf.Area= 877 sf Storage= 116 cf Peak Elev= 2,086.52' @ 12.36 hrs Surf.Area= 877 sf Storage= 534 cf (418 cf above start)

Plug-Flow detention time= (not calculated: outflow precedes inflow) Center-of-Mass det. time= (not calculated: outflow precedes inflow)

Volume	Inv	ert Avai	il.Storage	Storage D	escription		
#1	2,085.	00'	9,992 cf	Custom S	Stage Data (Irreg	ular)Listed below	(Recalc)
Elevatio		Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
2,085.0	00	877	192.0	0.0	0	0	877
2,086.5	50	877	192.0	40.0	526	526	1,165
2,088.0	00	877	192.0	40.0	526	1,052	1,453
2,090.0	00	2,142	229.7	100.0	2,926	3,979	2,787
2,092.0	00	3,964	290.6	100.0	6,013	9,992	5,361
Device	Routing	In	vert Outle	et Devices			
#1	Primary	2,085	5.00' 24.0	" Round (Outlet Culvert		
	•	•	L= 1	00.0' CPF	, projecting, no h	eadwall, Ke= 0.90	00
			Inlet	/ Outlet Inv	/ert= 2,085.00' / 2	,084.00' S= 0.01	00 '/' Cc= 0.900
			n= 0	.013, Flow	Area= 3.14 sf		
#2	Device '	1 2,085	5.33' 1.0"	Vert. Orifi	ce/Grate C= 0.6	00 Limited to we	ir flow at low heads
#3	Device '	1 2,085	5.00' 3.00	0 in/hr Exf	iltration over Su	rface area	

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#4	Device 1	2,091.40'	24.0" Horiz. Orifice/Grate C= 0.600
			Limited to weir flow at low heads
#5	Secondary	2,091.50'	6.0' long x 8.0' breadth Broad-Crested Rectangular Weir
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00
			2.50 3.00 3.50 4.00 4.50 5.00 5.50
			Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64
			2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.09 cfs @ 12.36 hrs HW=2,086.52' (Free Discharge)

-1=Outlet Culvert (Passes 0.09 cfs of 8.50 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.03 cfs @ 5.16 fps)

-3=Exfiltration (Exfiltration Controls 0.06 cfs)

-4=Orifice/Grate (Controls 0.00 cfs)

#2

#3

#4

Device 1

Device 2

Device 1

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=2,085.33' (Free Discharge) 5=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Summary for Pond P17: Timbers 11-14 Soil Filter

Inflow Area =	1.829 ac, 34.99% Impervious, Inflow D	epth = 0.80" for 1-Year event
Inflow =	2.57 cfs @ 11.97 hrs, Volume=	0.121 af
Outflow =	0.10 cfs @ 13.95 hrs, Volume=	0.121 af, Atten= 96%, Lag= 119.0 min
Primary =	0.10 cfs @ 13.95 hrs, Volume=	0.121 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 2,119.33' Surf.Area= 2,430 sf Storage= 321 cf Peak Elev= 2,122.09' @ 13.95 hrs Surf.Area= 2,491 sf Storage= 3,136 cf (2,815 cf above start)

Plug-Flow detention time= 441.0 min calculated for 0.114 af (94% of inflow) Center-of-Mass det. time= 376.8 min (1,222.2 - 845.3)

Volume	Inve	ert Ava	il.Storage	Storage Description			
#1	2,119.0	00'	13,840 cf	Custom 9	Stage Data (Irreg	ular)Listed below	(Recalc)
Elevation (feet)		Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
2,119.00)	2,430	238.8	0.0	0	0	2,430
2,120.50	1	2,430	238.8	40.0	1,458	1,458	2,788
2,122.00	1	2,430	238.8	40.0	1,458	2,916	3,146
2,124.00	1	3,989	280.8	100.0	6,355	9,271	4,959
2,125.00	1	5,174	303.4	100.0	4,569	13,840	6,050
	Routing			et Devices			
#1 F	Primary	2,119			Outlet Culvert		00
L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 2,119.00' / 2,117.00' S= 0.0200 '/' Cc= 0.900							

n= 0.013, Flow Area= 3.14 sf

2,119.00' **3.000** in/hr Exfiltration over Surface area 2,123.70' **24.0"** Horiz. Orifice/Grate C= 0.600

2,119.33' 1.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

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Limited to weir flow at low heads

#5

Secondary 2,124.00' 6.0' long x 8.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.10 cfs @ 13.95 hrs HW=2,122.09' (Free Discharge)

-1=Outlet Culvert (Passes 0.10 cfs of 17.26 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.10 cfs @ 7.91 fps)

3=Exfiltration (Passes 0.10 cfs of 0.17 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=2,119.33' (Free Discharge)

5=Broad-Crested Postangular Weir/ Controls 0.00 (fs) -5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P2: Townhomes 3-6 Soil Filter

Inflow Area =	3.212 ac, 25.50% Impervious, Inflow D	Depth = 0.48" for 1-Year event
Inflow =	2.14 cfs @ 12.04 hrs, Volume=	0.130 af
Outflow =	0.08 cfs @ 15.92 hrs, Volume=	0.130 af, Atten= 96%, Lag= 233.0 min
Primary =	0.08 cfs @ 15.92 hrs, Volume=	0.130 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,739.33' Surf.Area= 3,904 sf Storage= 515 cf

Peak Elev= 1,741.25' @ 15.92 hrs Surf.Area= 3,904 sf Storage= 3,517 cf (3,002 cf above start)

Plug-Flow detention time= 619.2 min calculated for 0.118 af (91% of inflow) Center-of-Mass det. time= 512.4 min (1,393.2 - 880.9)

Volume	Inve	ert Avail.	Storage	Storage	Description			
#1	1,739.0	00' 2	8,913 cf	Custom	Stage Data (Irreg	ular)Listed below (Recalc)	
Elevatio	n	Surf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area	
(fee	t)	(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)	
1,739.0	0	3,904	312.1	0.0	0	0	3,904	
1,740.5	0	3,904	312.1	40.0	2,342	2,342	4,372	
1,742.0	0	3,904	312.1	40.0	2,342	4,685	4,840	
1,744.0	0	5,890	349.8	100.0	9,726	14,411	6,933	
1,746.0	0	8,703	412.7	100.0	14,502	28,913	10,826	
Device	Routing	Inv	ert Outle	et Device	S			
#1	Primary	1,738.	00' 24.0	" Round	Outlet Culvert			
	•	,	L= 1	00.0' CF	PP, projecting, no he	eadwall, Ke= 0.90	0	
					nvert= 1,738.00' / 1			
			n= 0	.013 Cor	rugated PE, smootl	n interior, Flow Are	ea= 3.14 sf	
#2	Device 1	1,739.	33' 1.5"	Vert. Ori	ifice/Grate C= 0.6	00 Limited to weir	flow at low heads	
#3	Device 2	1,739.	00' 3.00					
#4	Device 1	1,743.	50' 24.0	24.0" Horiz. Orifice/Grate C= 0.600				
			Limit	ted to wei	ir flow at low heads			

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#5 Secondary 1,744.00' 4.0' long x 8.0' breadth Broad-Crested Rectangular Weir

Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00

2.50 3.00 3.50 4.00 4.50 5.00 5.50

Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64

2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.08 cfs @ 15.92 hrs HW=1,741.25' (Free Discharge)

-1=Outlet Culvert (Passes 0.08 cfs of 17.92 cfs potential flow)

—2=Orifice/Grate (Orifice Controls 0.08 cfs @ 6.57 fps)

3=Exfiltration (Passes 0.08 cfs of 0.27 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,739.33' (Free Discharge)
5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P3: Townhomes 1-2 Soil Filter

Inflow Area =	7.421 ac, 27.30% Impervious, Inflow I	Depth = 0.60" for 1-Year event
Inflow =	6.16 cfs @ 11.98 hrs, Volume=	0.373 af
Outflow =	0.19 cfs @ 16.65 hrs, Volume=	0.373 af, Atten= 97%, Lag= 280.1 min
Primary =	0.19 cfs @ 16.65 hrs, Volume=	0.373 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,751.33' Surf.Area= 5,240 sf Storage= 692 cf

Peak Elev= 1,754.70' @ 16.65 hrs Surf.Area= 5,944 sf Storage= 10,193 cf (9,501 cf above start)

Plug-Flow detention time= 682.4 min calculated for 0.357 af (96% of inflow)

Center-of-Mass det. time= 626.8 min (1,491.4 - 864.6)

Volume	Invert	: Avail.S	torage	Storage I	Description			
#1	1,751.00	57	,886 cf	Custom Stage Data (Irregular)Listed below (Recalc)				
Elevatio (fee		urf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
1,751.0		5,240	336.6	0.0	0	0	5,240	
1,751.5		5,240	336.6	40.0	3,144	3,144	5,745	
1,754.0		5,240	336.6	40.0	3,144	6,288	6,250	
1,756.0	0	7,373	374.3	100.0	12,552	18,840	8,498	
1,758.0	0	9,731	412.0	100.0	17,050	35,890	10,984	
1,760.0	0	12,316	449.7	100.0	21,996	57,886	13,709	
Device	Routing	Inve	rt Outle	et Devices	3			
#1	Primary	1,750.00	O' 18.0	" Round	Outlet Culvert			
	-		L= 5	0.0' CPP	, projecting, no hea	adwall, Ke= 0.900		
			Inlet	nlet / Outlet Invert= 1,750.00' / 1,748.00' S= 0.0400 '/' Cc= 0.900				
			n= 0	.013, Flov	w Area= 1.77 sf			
#2	Device 1	1,751.33	3' 2.0"	Vert. Orif	fice/Grate C= 0.6	00 Limited to wei	r flow at low heads	
#3	Device 2	1,751.00	O' 3.00	0 in/hr Ex	filtration over Su	rface area		
#4	Device 1	1,757.50	o' 24.0	" Vert. Or	rifice/Grate C= 0.	600 Limited to we	eir flow at low heads	
#5	Secondary	1,758.00	O' 4.0'	0' long x 8.0' breadth Broad-Crested Rectangular Weir				

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Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.19 cfs @ 16.65 hrs HW=1,754.70' (Free Discharge)

-1=Outlet Culvert (Passes 0.19 cfs of 13.35 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.19 cfs @ 8.73 fps)

3=Exfiltration (Passes 0.19 cfs of 0.41 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,751.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P4: Bottom Road A Soil Filter

Inflow Area = 2.357 ac, 32.63% Impervious, Inflow Depth = 0.77" for 1-Year event Inflow 2.06 cfs @ 11.99 hrs, Volume= 0.150 af 0.13 cfs @ 13.96 hrs, Volume= Outflow 0.150 af, Atten= 94%, Lag= 117.7 min 0.13 cfs @ 13.96 hrs, Volume= 0.150 af Primary Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,761.33' Surf.Area= 802 sf Storage= 106 cf

Peak Elev= 1,765.97' @ 13.96 hrs Surf.Area= 1,843 sf Storage= 3,494 cf (3,388 cf above start)

Plug-Flow detention time= 371.2 min calculated for 0.148 af (98% of inflow)

Center-of-Mass det. time= 353.4 min (1,206.1 - 852.7)

Volume	Invert	Avai	l.Storage	Storage	Description				
#1	1,761.00		16,287 cf	Custom	Stage Data (Irreg	ular)Listed below (Recalc)		
Elevatio	n S	urf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area		
(fee		(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)		
1,761.0	<i>-</i>	802	158.2	0.0	0	0	802		
,						-			
1,762.5	0	802	158.2	40.0	481	481	1,039		
1,764.0	0	802	158.2	40.0	481	962	1,277		
1,766.0	0	1,864	195.9	100.0	2,592	3,555	2,396		
1,768.0	0	3,153	233.6	100.0	4,961	8,516	3,755		
1,770.0	0	4,668	271.3	100.0	7,772	16,287	5,351		
Device	Routing	In	vert Outle	et Devices	S				
#1	Primary	1,760	.00' 24.0	0" Round Outlet Culvert					
	•	•	L= 1	100.0' CPP, projecting, no headwall, Ke= 0.900					
					. , .	$,758.00^{\circ}$ S= 0.020			
						h interior, Flow Are			
#2	Device 1	1,761			·	600 Limited to wei			
		,					now at low neads		
#3	Device 2	1,761			xfiltration over Su				
#4	Device 1	1,768	.70' 24.0" Horiz. Orifice/Grate C= 0.600						
Limited to weir flow at low heads									
#5	Secondary	1,768	.80' 4.0'	long x 8.	.0' breadth Broad-	-Crested Rectange	ular Weir		

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Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.13 cfs @ 13.96 hrs HW=1,765.97' (Free Discharge)

-1=Outlet Culvert (Passes 0.13 cfs of 26.62 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.13 cfs @ 10.30 fps)

3=Exfiltration (Passes 0.13 cfs of 0.13 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,761.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P5: Roads A and F Soil Filter

Inflow Area = 4.982 ac, 30.33% Impervious, Inflow Depth = 0.52" for 1-Year event Inflow 3.22 cfs @ 11.97 hrs, Volume= 0.217 af 0.11 cfs @ 17.61 hrs, Volume= Outflow 0.217 af, Atten= 97%, Lag= 338.3 min 0.11 cfs @ 17.61 hrs, Volume= 0.217 af Primary Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,831.33' Surf.Area= 3,217 sf Storage= 425 cf

Peak Elev= 1,834.60' @ 17.61 hrs Surf.Area= 3,701 sf Storage= 5,935 cf (5,510 cf above start)

Plug-Flow detention time= 714.8 min calculated for 0.207 af (96% of inflow)

Center-of-Mass det. time= 652.9 min (1,527.4 - 874.4)

Volume	Invert	Avail.S	Storage	Storage [Description					
#1	1,831.00'	,831.00' 31,588 c		Custom Stage Data (Irregular)Listed below (Recalc)						
Elevatio (fee		rf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)			
1,831.0		3,217 22		0.0	0	0	3,217			
1,832.5		3,217 2		40.0	1,930	1,930	3,550			
1,834.0	0	3,217 2		40.0	1,930	3,860	3,884			
1,838.0	0	7,083 3		100.0	20,098	23,958	10,317			
1,839.0	9.00 8,190 3		378.0	100.0	7,630	31,588	11,490			
Device	Routing	Inve	rt Outle	et Devices	i					
#1	Primary	1,830.0		24.0" Round Culvert						
				L= 100.0' CPP, projecting, no headwall, Ke= 0.900						
				Inlet / Outlet Invert= 1,830.00' / 1,828.00' S= 0.0200 '/' Cc= 0.900						
" 0	5	4 00 4 0				Flow Area= 3.14 sf				
#2	Device 1	1,831.3	-	1.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads						
#3	Device 2	1,831.0			filtration over Su					
#4	Device 1	1,836.5			rifice/Grate C= 0					
					flow at low heads					
#5	#5 Secondary 1,836.80' 6.0'			.0' long x 8.0' breadth Broad-Crested Rectangular Weir lead (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00						

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2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.11 cfs @ 17.61 hrs HW=1,834.60' (Free Discharge)

-1=Culvert (Passes 0.11 cfs of 22.66 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.11 cfs @ 8.62 fps)

3=Exfiltration (Passes 0.11 cfs of 0.26 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,831.33' (Free Discharge) 5=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Summary for Pond P6: Lot R43 Soil Filter

Inflow Area = 1.084 ac, 37.36% Impervious, Inflow Depth = 0.80" for 1-Year event

Inflow = 1.24 cfs @ 12.04 hrs, Volume= 0.072 af

Outflow = 0.04 cfs @ 15.86 hrs, Volume= 0.072 af, Atten= 97%, Lag= 229.6 min

Primary = 0.04 cfs @ 15.86 hrs, Volume= 0.072 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,823.33' Surf.Area= 2,234 sf Storage= 295 cf

Peak Elev= 1,825.45' @ 15.86 hrs Surf.Area= 2,234 sf Storage= 2,187 cf (1,892 cf above start)

Plug-Flow detention time= 787.1 min calculated for 0.065 af (91% of inflow)

Avail.Storage Storage Description

Center-of-Mass det. time= 662.0 min (1,512.8 - 850.8)

Invert

Volume

TOTALLIO		0.t 7 tru	c.c.age	o to, ago	Boodinparon				
#1	1,823.0	00'	8,962 cf	Custom	n Stage Data (Irreg	ular)Listed below (Recalc)		
Elevation (fee		Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)		
1,823.0	00	2,234	252.5	0.0	0	0	2,234		
1,824.5	50	2,234	252.5	40.0	1,340	1,340	2,613		
1,826.0	00	2,234	252.5	40.0	1,340	2,681	2,992		
1,828.0	00	4,145	312.6	100.0	6,281	8,962	5,753		
Device	Routing			et Device					
#1	Primary	1,823		15.0" Round Outlet Culvert					
	L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,823.00' / 1,822.00' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 1.23 sf								
#2	Device 1	1,823	3.33' 1.0"	Vert. Or	ifice/Grate C= 0.6	00 Limited to weil	r flow at low heads		
#3	Device 2	2 1,823	3.00' 3.00	0 in/hr E	xfiltration over Su	rface area			
#4 Device 1 1,827.80' 24.0" Horiz. Orifice/Grate C= 0.600				0.600					
			Limi	ted to we	ir flow at low heads				

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Primary OutFlow Max=0.04 cfs @ 15.86 hrs HW=1,825.45' (Free Discharge)

-1=Outlet Culvert (Passes 0.04 cfs of 6.30 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.04 cfs @ 6.94 fps)

3=Exfiltration (Passes 0.04 cfs of 0.16 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Summary for Pond P7: Lot R42 Soil Filter

1.546 ac, 30.92% Impervious, Inflow Depth = 0.65" for 1-Year event Inflow Area = 1.24 cfs @ 12.08 hrs, Volume= Inflow 0.084 af 0.06 cfs @ 14.99 hrs, Volume= Outflow 0.084 af, Atten= 95%, Lag= 174.3 min Primary 0.06 cfs @ 14.99 hrs, Volume= 0.084 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,878.33' Surf.Area= 1,972 sf Storage= 260 cf

Peak Elev= 1,880.80' @ 14.99 hrs Surf.Area= 1,972 sf Storage= 2,205 cf (1,945 cf above start)

Plug-Flow detention time= 525.4 min calculated for 0.078 af (93% of inflow)

Center-of-Mass det. time= 444.1 min (1,311.1 - 867.1)

Volume	Invert	Avail.St	orage	Storage D	escription				
#1	1,878.00'	26,0	005 cf	Custom S	Custom Stage Data (Irregular)Listed below (Recalc)				
Elevatio			Perim.	Voids	Inc.Store	Cum.Store	Wet.Area		
(fee	<u>:t)</u>) (sq-ft) (fe		(%)	(cubic-feet)	(cubic-feet)	(sq-ft)		
1,878.0	00	1,972 1		0.0	0	0	1,972		
1,879.5	50	1,972	181.3	40.0	1,183	1,183	2,244		
1,881.0	00	1,972	181.3	40.0	1,183	2,366	2,516		
1,883.0	00	3,173	219.0	100.0	5,098	7,464	3,782		
1,885.0	00	4,600	256.7	100.0	7,729	15,193	5,286		
1,887.0	00	6,254	294.4	100.0	10,812	26,005	7,029		
Device	Routing	Inver	t Outle	et Devices					
#1	Primary	1,878.00	' 24.0	" Round C	Outlet Culvert				
	_			100.0' CPP, projecting, no headwall, Ke= 0.900					
				nlet / Outlet Invert= 1,878.00' / 1,876.00' S= 0.0200 '/' Cc= 0.900					
				= 0.013, Flow Area= 3.14 sf					
#2	Device 1	1,878.33				00 Limited to weir	flow at low heads		
#3	Device 2	1,878.00			iltration over Sur				
#4	Device 1	1,882.80	' 24.0	" Horiz. Or	rifice/Grate C= 0	.600			
			Limit	ted to weir t	flow at low heads				
#5	Secondary	1,883.00				Crested Rectangu			
				lead (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00					
			2.50	3.00 3.50	4.00 4.50 5.00	5.50			
						2.69 2.68 2.68 2.	66 2.64 2.64		
			2.64	2.65 2.65	2.66 2.66 2.68	2.70 2.74			

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Primary OutFlow Max=0.06 cfs @ 14.99 hrs HW=1,880.80' (Free Discharge)

-1=Outlet Culvert (Passes 0.06 cfs of 16.00 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.06 cfs @ 7.48 fps)

3=Exfiltration (Passes 0.06 cfs of 0.14 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,878.33' (Free Discharge) 5=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Summary for Pond P8: Lot R40 Soil Filter

1.823 ac, 26.66% Impervious, Inflow Depth = 0.60" for 1-Year event Inflow Area = Inflow 1.44 cfs @ 12.06 hrs, Volume= 0.092 af 0.04 cfs @ 17.62 hrs, Volume= Outflow = 0.092 af, Atten= 97%, Lag= 333.2 min 0.04 cfs @ 17.62 hrs, Volume= Primary 0.092 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,924.33' Surf.Area= 2,235 sf Storage= 295 cf

Peak Elev= 1,927.02' @ 17.62 hrs Surf.Area= 2,248 sf Storage= 2,730 cf (2,435 cf above start)

Plug-Flow detention time= 853.0 min calculated for 0.085 af (93% of inflow)

Center-of-Mass det. time= 748.6 min (1,618.2 - 869.6)

Volume	Invert	Avail	.Storage	Storage I	Description				
#1	1,924.00'	1	12,739 cf	Custom	Custom Stage Data (Irregular)Listed below (Recalc)				
Elevation (feet		rf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)		
1,924.0	,	2,235	198.8	0.0	0	0	2,235		
1,925.5		2,235 19		40.0	1,341	1,341	2,533		
1,927.0		2,235	198.8	40.0	1,341	2,682	2,831		
1,928.0		2,859 21		100.0	2,541	5,223	3,488		
1,929.0		3,828	326.8	100.0	3,332	8,554	8,227		
1,930.0	0	4,552	295.9	100.0	4,185	12,739	9,789		
Device	Routing	lnv	ert Outl	et Devices	3				
#1	Primary	1,924.			Outlet Culvert				
				L= 100.0' CPP, projecting, no headwall, Ke= 0.900					
				hlet / Outlet Invert= 1,924.00' / 1,922.00' S= 0.0200 '/' Cc= 0.900					
що.	Davisa 4	4 004		,	w Area= 3.14 sf	00	. 41 4 -		
—	Device 1	1,924			Fice/Grate C= 0.60		flow at low neads		
	Device 2 Device 1	1,924. 1,928.			filtration over Sur Prifice/Grate C= 0				
#4	Device i	1,920.			flow at low heads	.000			
#5	Secondary	1,929.			0' breadth Broad-	Crested Rectangi	ılar Weir		
110	Cocordary	1,020			20 0.40 0.60 0.80				
					0 4.00 4.50 5.00		1.00 1.00 2.00		
) 2.43 2.54 2.70		.66 2.64 2.64		
					5 2.66 2.66 2.68				

Volume

1,950.00

Invert

5,693

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Primary OutFlow Max=0.04 cfs @ 17.62 hrs HW=1,927.02' (Free Discharge)

1=Outlet Culvert (Passes 0.04 cfs of 16.98 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.04 cfs @ 7.84 fps)

3=Exfiltration (Passes 0.04 cfs of 0.16 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,924.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P9: Lot R51 Soil Filter

Inflow Area = 1.248 ac, 21.63% Impervious, Inflow Depth = 0.56" for 1-Year event Inflow 1.16 cfs @ 11.98 hrs, Volume= 0.058 af Outflow = 0.04 cfs @ 15.16 hrs, Volume= 0.058 af, Atten= 97%, Lag= 190.8 min 0.04 cfs @ 15.16 hrs, Volume= **Primary** 0.058 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,941.33' Surf.Area= 1,440 sf Storage= 190 cf

Peak Elev= 1,943.65' @ 15.16 hrs Surf.Area= 1,440 sf Storage= 1,528 cf (1,338 cf above start)

Plug-Flow detention time= 539.8 min calculated for 0.054 af (92% of inflow) Center-of-Mass det. time= 453.6 min (1,318.4 - 864.8)

Avail.Storage Storage Description

292.8 100.0

#1 1.941.00' 22,064 cf Custom Stage Data (Irregular)Listed below (Recalc) Elevation Surf.Area Perim. Voids Inc.Store Cum.Store Wet.Area (feet) (%)(cubic-feet) (cubic-feet) (sq-ft) (feet) (sq-ft) 1,941.00 1,440 179.7 0.0 1,440 0 0 1,942.50 1.440 179.7 40.0 864 864 1,710 1,440 40.0 1,728 1,944.00 179.7 864 1,979 3,235 5,740 1,946.00 2,631 217.4 100.0 4,012 12,369 4,049 255.1 6,629 4,729 1,948.00 100.0

9,695

22,064

6,462

Device	Routing	Invert	Outlet Devices
#1	Primary	1,940.00'	24.0" Round Outlet Culvert
	-		L= 100.0' CPP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 1,940.00' / 1,938.00' S= 0.0200 '/' Cc= 0.900
			n= 0.013, Flow Area= 3.14 sf
#2	Device 1	1,941.33'	1.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,941.00'	3.000 in/hr Exfiltration over Surface area
#4	Device 1	1,945.50'	24.0" Horiz. Orifice/Grate C= 0.600
			Limited to weir flow at low heads
#5	Secondary	1,945.80'	4.0' long x 8.0' breadth Broad-Crested Rectangular Weir
	•		Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00
			2.50 3.00 3.50 4.00 4.50 5.00 5.50

Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64

2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

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Primary OutFlow Max=0.04 cfs @ 15.16 hrs HW=1,943.65' (Free Discharge)

1=Outlet Culvert (Passes 0.04 cfs of 19.45 cfs potential flow) **2=Orifice/Grate** (Orifice Controls 0.04 cfs @ 7.27 fps)

3=Exfiltration (Passes 0.04 cfs of 0.10 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,941.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Link SP1:

Inflow Area = 327.994 ac, 5.46% Impervious, Inflow Depth > 0.41" for 1-Year event

Inflow = 49.31 cfs @ 12.66 hrs, Volume= 11.333 af

Primary = 49.31 cfs @ 12.66 hrs, Volume= 11.333 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP10:

Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP11:

Inflow Area = 6.579 ac. 3.57% Impervious, Inflow Depth = 0.48" for 1-Year event

Inflow = 4.22 cfs @ 12.04 hrs, Volume= 0.266 af

Primary = 4.22 cfs @ 12.04 hrs, Volume= 0.266 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP12:

Inflow Area = 20.993 ac, 12.16% Impervious, Inflow Depth = 0.48" for 1-Year event

Inflow = 6.86 cfs @ 12.22 hrs, Volume= 0.844 af

Primary = 6.86 cfs @ 12.22 hrs, Volume= 0.844 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP13:

Inflow Area = 12.275 ac, 33.70% Impervious, Inflow Depth > 0.71" for 1-Year event

Inflow = 0.54 cfs @ 12.05 hrs, Volume= 0.727 af

Primary = 0.54 cfs @ 12.05 hrs, Volume= 0.727 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP14:

Inflow Area = 1.238 ac, 3.31% Impervious, Inflow Depth = 0.48" for 1-Year event

Inflow = 0.67 cfs @ 12.10 hrs, Volume= 0.050 af

Primary = 0.67 cfs @ 12.10 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP15:

Inflow Area = 27.913 ac, 22.52% Impervious, Inflow Depth = 0.55" for 1-Year event

Inflow = 5.59 cfs @ 12.16 hrs, Volume= 1.274 af

Primary = 5.59 cfs @ 12.16 hrs, Volume= 1.274 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP16:

Inflow Area = 1.173 ac, 3.15% Impervious, Inflow Depth = 0.38" for 1-Year event

Inflow = 0.45 cfs @ 12.12 hrs, Volume= 0.037 af

Primary = 0.45 cfs @ 12.12 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP17:

Inflow Area = 4.548 ac, 20.07% Impervious, Inflow Depth = 0.47" for 1-Year event

Inflow = 1.14 cfs @ 11.95 hrs, Volume= 0.180 af

Primary = 1.14 cfs @ 11.95 hrs, Volume= 0.180 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP18:

Inflow Area = 0.186 ac, 11.29% Impervious, Inflow Depth = 0.52" for 1-Year event

Inflow = 0.18 cfs @ 11.96 hrs, Volume= 0.008 af

Primary = 0.18 cfs @ 11.96 hrs, Volume= 0.008 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP19:

Inflow Area = 0.648 ac, 3.70% Impervious, Inflow Depth = 0.41" for 1-Year event

Inflow = 0.34 cfs @ 12.05 hrs, Volume= 0.022 af

Primary = 0.34 cfs @ 12.05 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP2:

Inflow Area = 1.275 ac, 5.49% Impervious, Inflow Depth = 0.48" for 1-Year event

Inflow = 0.55 cfs @ 12.18 hrs, Volume= 0.051 af

Primary = 0.55 cfs @ 12.18 hrs, Volume= 0.051 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP20:

Inflow Area = 50.264 ac, 9.71% Impervious, Inflow Depth = 0.39" for 1-Year event

Inflow = 7.95 cfs @ 12.46 hrs, Volume= 1.629 af

Primary = 7.95 cfs @ 12.46 hrs, Volume= 1.629 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP21:

Inflow Area = 7.874 ac, 25.98% Impervious, Inflow Depth = 0.60" for 1-Year event

Inflow = 0.43 cfs @ 12.07 hrs, Volume= 0.392 af

Primary = 0.43 cfs @ 12.07 hrs, Volume= 0.392 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP22:

Inflow Area = 0.328 ac, 7.62% Impervious, Inflow Depth = 0.52" for 1-Year event

Inflow = 0.23 cfs @ 12.05 hrs, Volume= 0.014 af

Primary = 0.23 cfs @ 12.05 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP23:

Inflow Area = 2.727 ac, 29.63% Impervious, Inflow Depth = 0.74" for 1-Year event

Inflow = 0.40 cfs @ 12.01 hrs, Volume= 0.168 af

Primary = 0.40 cfs @ 12.01 hrs, Volume= 0.168 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP24:

Inflow Area = 13.779 ac, 3.95% Impervious, Inflow Depth = 0.48" for 1-Year event

Inflow = 6.61 cfs @ 12.15 hrs, Volume= 0.556 af

Primary = 6.61 cfs @ 12.15 hrs, Volume= 0.556 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP3:

Inflow Area = 4.241 ac, 25.14% Impervious, Inflow Depth = 0.72" for 1-Year event

Inflow = 0.23 cfs @ 12.08 hrs, Volume= 0.253 af

Primary = 0.23 cfs @ 12.08 hrs, Volume= 0.253 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP4:

Inflow Area = 62.647 ac, 2.01% Impervious, Inflow Depth = 0.42" for 1-Year event

Inflow = 11.93 cfs @ 12.14 hrs, Volume= 2.173 af

Primary = 11.93 cfs @ 12.14 hrs, Volume= 2.173 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP5:

Inflow Area = 2.355 ac, 0.51% Impervious, Inflow Depth = 0.45" for 1-Year event

Inflow = 0.82 cfs @ 12.24 hrs, Volume= 0.088 af

Primary = 0.82 cfs @ 12.24 hrs, Volume= 0.088 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP6:

Inflow Area = 75.057 ac, 9.07% Impervious, Inflow Depth = 0.44" for 1-Year event

Inflow = 18.35 cfs @ 12.20 hrs, Volume= 2.781 af

Primary = 18.35 cfs @ 12.20 hrs, Volume= 2.781 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP7:

Inflow Area = 0.872 ac, 6.42% Impervious, Inflow Depth = 0.48" for 1-Year event

Inflow = 0.53 cfs @ 12.07 hrs, Volume= 0.035 af

Primary = 0.53 cfs @ 12.07 hrs, Volume= 0.035 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP8:

Inflow Area = 0.344 ac, 19.19% Impervious, Inflow Depth = 0.60" for 1-Year event

Inflow = 0.29 cfs @ 12.04 hrs, Volume= 0.017 af

Primary = 0.29 cfs @ 12.04 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min

Type II 24-hr 1-Year Rainfall=2.00" Printed 9/24/2021

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Summary for Link SP9:

Inflow Area = 0.148 ac, 24.32% Impervious, Inflow Depth = 0.65" for 1-Year event

Inflow = 0.14 cfs @ 12.04 hrs, Volume= 0.008 af

Primary = 0.14 cfs @ 12.04 hrs, Volume= 0.008 af, Atten= 0%, Lag= 0.0 min

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Summary for Subcatchment 1S: WS 3

Runoff = 0.21 cfs @ 12.07 hrs, Volume= 0.013 af, Depth= 0.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 2-Year Rainfall=2.40"

Area	(ac) (N Des	cription							
0.	000	98 Untı	Jntreated existing impervious, HSG A							
0.	000	98 Unti	Jntreated existing impervious, HSG C							
0.	037	98 Unti	Jntreated existing impervious, HSG D							
0.	000	98 Exis	existing impervious to be treated as offset, HSG D							
0.	000	30 Exis	xisting meadow, non-grazed, HSG A							
0.	000	71 Exis	xisting meadow, non-grazed, HSG C							
0.	000	78 Exis	ting meado	ow, non-gra	azed, HSG D					
0.	000	30 Exis	ting Woods	s, Good, H	SG A					
0.	000	70 Exis	ting Woods	s, Good, H	SG C					
0.	032	77 Exis	ting Woods	s, Good, H	SG D					
0.	000	70 Pro	osed Woo	ds, Good,	HSG C					
0.	000	77 Proj	osed Woo	ds, Good,	HSG D					
0.	000	98 Proj	osed impe	ervious to b	e treated, HSG C					
			osed impe	ervious to b	e treated, HSG D					
					rvious, HSG C					
	0.000 98 Untreated proposed impervious, HSG D									
0.	000	71 Prop	Proposed developed meadow, non-grazed, HSG C							
	0.103 78 Proposed developed meadow, non-grazed, HSG D									
					ndow to be treated, HSG C					
					ndow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lift						
0.	000	78 Pro	osed mea	dow, ski lift	t, HSG D					
0.	172	82 Wei	ghted Aver	age						
0.	135	78.4	9% Pervio	us Area						
0.	037	21.5	1% Imperv	ious Area						
Тс	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.8	74	0.3500	0.11		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
3.4	115	0.0500	0.56		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
14.2	189	Total								

Summary for Subcatchment 2S: WS 1

Runoff = 1.27 cfs @ 12.57 hrs, Volume= 0.202 af, Depth= 0.68"

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Area	(ac) C	N Desc	cription							
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A					
0.	000				rious, HSG C					
0.	019		ntreated existing impervious, HSG D							
			xisting impervious to be treated as offset, HSG D							
			xisting meadow, non-grazed, HSG A							
			xisting meadow, non-grazed, HSG C							
			xisting meadow, non-grazed, HSG D							
				s, Good, H						
			•	s, Good, H						
			•	s, Good, H						
				ds, Good, n						
				ds, Good,						
			•		e treated, HSG C					
			•		e treated, HSG D					
				•	rvious, HSG C					
				•	rvious, HSG D					
					adow, non-grazed, HSG C					
					adow, non-grazed, HSG D					
					adow to be treated, HSG C					
					adow to be treated, HSG D					
	0.000 71 Proposed meadow, ski trail, HSG C									
				dow, ski tra						
				dow, ski lift						
				dow, ski lift	t, HSG D					
			ghted Aver							
	548		7% Pervio							
0.	019	0.53	% Impervi	ous Area						
_										
Tc	Length	Slope	Velocity	Capacity	Description					
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.7	37	0.0900	0.06		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
0.8	102	0.0900	2.10		Shallow Concentrated Flow,					
					Short Grass Pasture Kv= 7.0 fps					
36.2	150	0.0700	0.07		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
3.0	133	0.0900	0.75		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.2	138	0.0600	10.43	458.93	Trap/Vee/Rect Channel Flow,					
					Bot.W=20.00' D=2.00' Z= 1.0'/' Top.W=24.00'					
					n= 0.050					
0.8	505	0.0600	10.43	458.93	Trap/Vee/Rect Channel Flow,					
0.0	000	0.0000	13.40	100.00	Bot.W=20.00' D=2.00' Z= 1.0'/' Top.W=24.00'					
					n= 0.050					
51.7	1,065	Total			11 0.000					
31.7	1,003	i Ulai								

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Summary for Subcatchment 3S: WS 1-1

Runoff = 1.37 cfs @ 12.11 hrs, Volume= 0.103 af, Depth= 0.68"

_	Area	(ac) (CN Des	cription							
						rious, HSG A					
				Untreated existing impervious, HSG C							
				Untreated existing impervious, HSG D							
				Existing impervious to be treated as offset, HSG D							
				Existing meadow, non-grazed, HSG A							
						azed, HSG C					
				Existing meadow, non-grazed, HSG D							
				Existing Woods, Good, HSG A							
					s, Good, H						
					s, Good, H						
					ods, Good,						
					ods, Good,						
						e treated, HSG C					
						e treated, HSG D					
						rvious, HSG C					
	0.000 98 Untreated proposed impervious, HSG D										
	0.000 71 Proposed developed meadow, non-grazed, HSG C										
	0.000 78 Proposed developed meadow, non-grazed, HSG D										
	0.000 71 Proposed developed meadow to be treated, HSG C										
						adow to be treated, HSG D					
					idow, ski tra	·					
	_				idow, ski tra						
					idow, ski lif						
_					idow, ski lif	t, HSG D					
		-		ghted Ave							
	1.	814	100	.00% Perv	ious Area						
	_		01								
	Tc	Length		Velocity	Capacity	Description					
_	(min)	(feet)		(ft/sec)	(cfs)						
	9.5	100	0.0800	0.18		Sheet Flow,					
						Grass: Dense n= 0.240 P2= 2.40"					
	0.9	105	0.0800	1.98		Shallow Concentrated Flow,					
						Short Grass Pasture Kv= 7.0 fps					
	0.6	60	0.4700	1.71		Shallow Concentrated Flow,					
	0.6	000	0.4000	0.6=		Forest w/Heavy Litter Kv= 2.5 fps					
	6.3	328	0.1200	0.87		Shallow Concentrated Flow,					
_						Forest w/Heavy Litter Kv= 2.5 fps					
	17.3	593	Total								

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Summary for Subcatchment 4S: WS 1-2

Runoff = 2.25 cfs @ 12.05 hrs, Volume= 0.138 af, Depth= 0.72"

Area	(ac)	CN	Desc	ription							
0.	.000	98	Untre	eated exis	ting imperv	rious, HSG A					
	.000	98				rious, HSG C					
0	.000	98		Intreated existing impervious, HSG D							
0	.000	98	Exist	xisting impervious to be treated as offset, HSG D							
0.	.000	30	Exist	ing mead	ow, non-gra	azed, HSG A					
0.	.000	71	Exist	ing mead	ow, non-gra	azed, HSG C					
0.	.000	78	Exist	ing mead	ow, non-gra	azed, HSG D					
	.000	30		Existing Woods, Good, HSG A							
	.000	70			s, Good, H						
	.685	77			s, Good, H						
0.	.000	70	Prop	osed Woo	ds, Good,	HSG C					
0.	.351	77	Prop	osed Woo	ds, Good,	HSG D					
	.000	98				pe treated, HSG C					
	.000	98				pe treated, HSG D					
	.000	98				ervious, HSG C					
	.002	98				ervious, HSG D					
	0.000 71 Proposed developed meadow, non-grazed, HSG C										
	0.130 78 Proposed developed meadow, non-grazed, HSG D										
	0.000 71 Proposed developed meadow to be treated, HSG C										
	0.000 78 Proposed developed meadow to be treated, HSG D										
	.000	71			dow, ski tra						
	.114	78			dow, ski tra						
	.000	71			dow, ski lif						
	.000	78			dow, ski lif	t, HSG D					
	.282	78		jhted Aver							
	.280			1% Pervio							
0.	.002		0.09	% Impervi	ous Area						
_		_				B					
Tc	Lengtl		Slope	Velocity	Capacity	Description					
(min)	(feet		(ft/ft)	(ft/sec)	(cfs)						
9.5	100	0.0	0800	0.18		Sheet Flow,					
						Grass: Dense n= 0.240 P2= 2.40"					
1.6	194	4 0.0	0800	1.98		Shallow Concentrated Flow,					
						Short Grass Pasture Kv= 7.0 fps					
0.5	53	3 0.4	4900	1.75		Shallow Concentrated Flow,					
•		- ^	4000	40.40	500.00	Forest w/Heavy Litter Kv= 2.5 fps					
0.4	327	<i>(</i> 0.	1000	13.40	563.00	Trap/Vee/Rect Channel Flow,					
						Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'					
						n= 0.050					
12.0	674	4 IC	otal								

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Summary for Subcatchment 5S: WS 1-3

Runoff = 5.68 cfs @ 12.15 hrs, Volume= 0.472 af, Depth= 0.68"

Area	(ac) (CN De	scription							
0.	000	98 Un	treated exis	ting imperv	rious, HSG A					
0.	000				rious, HSG C					
0.	.000	98 Un	treated exis	ting imperv	rious, HSG D					
0.	.000		Existing impervious to be treated as offset, HSG D							
0.	000		Existing meadow, non-grazed, HSG A							
0.	000		Existing meadow, non-grazed, HSG C							
0.	000	78 Ex	isting mead	ow, non-gra	azed, HSG D					
	000		isting Wood							
	000		isting Wood							
3.	319	77 Ex	isting Wood	s, Good, H	SG D					
0.	000	70 Pro	oposed Woo	ods, Good,	HSG C					
	938		oposed Woo	, ,						
	.000				e treated, HSG C					
	.000				e treated, HSG D					
	0.000 98 Untreated proposed impervious, HSG C									
	0.000 98 Untreated proposed impervious, HSG D									
	0.000 71 Proposed developed meadow, non-grazed, HSG C									
	0.000 78 Proposed developed meadow, non-grazed, HSG D									
	000				adow to be treated, HSG C					
	000				adow to be treated, HSG D					
	000		pposed mea							
	092		pposed mea	•	·					
	000		pposed mea							
	000		posed mea		t, HSG D					
	349		eighted Ave							
8.	349	10	0.00% Perv	ious Area						
_		01			B					
Tc	Length			Capacity	Description					
(min)	(feet)			(cfs)						
7.0	100	0.170	0.24		Sheet Flow,					
					Grass: Dense n= 0.240 P2= 2.40"					
3.4	596	0.170	2.89		Shallow Concentrated Flow,					
40.4	505	. 0.450			Short Grass Pasture Kv= 7.0 fps					
10.1	585	0.1500	0.97		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
20.5	1,281	Total								

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Summary for Subcatchment 6S: WS 1-4

Runoff = 11.32 cfs @ 12.30 hrs, Volume= 1.286 af, Depth= 0.63"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
2.284	70	Existing Woods, Good, HSG C
8.316	77	Existing Woods, Good, HSG D
0.588	70	Proposed Woods, Good, HSG C
1.175	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.088	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.085	71	Proposed meadow, ski trail, HSG C
6.341	78	Proposed meadow, ski trail, HSG D
0.360	71	Proposed meadow, ski lift, HSG C
2.079	78	Proposed meadow, ski lift, HSG D
24.316	76	Weighted Average
24.228		99.64% Pervious Area
0.088		0.36% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	10.7	51	0.1700	0.08		Sheet Flow,
	4.8	294	0.1700	1.03		Woods: Dense underbrush n= 0.800 P2= 2.40" Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
	4.4	760	0.1700	2.89		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	3.0	482	0.1500	2.71		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.5	447	0.1800	2.97		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	4.1	637	0.1400	2.62		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.1	138	0.1900	1.09		Shallow Concentrated Flow,
_						Forest w/Heavy Litter Kv= 2.5 fps
	31.6	2,809	Total			

Summary for Subcatchment 7S: WS 1-5

Runoff = 14.82 cfs @ 12.59 hrs, Volume= 2.590 af, Depth= 0.51"

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_	Area (ac)	CN	Description
	0.000	98	Untreated existing impervious, HSG A
	0.022	98	Untreated existing impervious, HSG C
	0.021	98	Untreated existing impervious, HSG D
	0.000	98	Existing impervious to be treated as offset, HSG D
	0.000	30	Existing meadow, non-grazed, HSG A
	3.752	71	Existing meadow, non-grazed, HSG C
	6.694	78	Existing meadow, non-grazed, HSG D
	0.000	30	Existing Woods, Good, HSG A
	23.036	70	Existing Woods, Good, HSG C
	11.631	77	Existing Woods, Good, HSG D
	2.098	70	Proposed Woods, Good, HSG C
	0.523	77	Proposed Woods, Good, HSG D
	0.000	98	Proposed impervious to be treated, HSG C
	0.000	98	Proposed impervious to be treated, HSG D
	0.008	98	Untreated proposed impervious, HSG C
	0.000	98	Untreated proposed impervious, HSG D
	0.186	71	Proposed developed meadow, non-grazed, HSG C
	0.000	78	Proposed developed meadow, non-grazed, HSG D
	0.000	71	Proposed developed meadow to be treated, HSG C
	0.000	78	Proposed developed meadow to be treated, HSG D
	7.773	71	Proposed meadow, ski trail, HSG C
	4.678	78	Proposed meadow, ski trail, HSG D
	0.000	71	Proposed meadow, ski lift, HSG C
_	0.000	78	Proposed meadow, ski lift, HSG D
	60.422	73	Weighted Average
	60.371		99.92% Pervious Area
	0.051		0.08% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
3.8	237	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.2	276	0.1900	1.09		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.7	148	0.0700	0.66		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
6.9	402	0.1500	0.97		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.5	396	0.3500	1.48		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.9	373	0.4000	1.58		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.1	334	0.3000	1.37		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.7	331	0.2200	1.17		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.4	341	0.2300	15.69	156.92	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.4	396	0.2200	15.35	153.47	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.4	007		45.00	450.00	n= 0.050
0.4	367	0.2300	15.69	156.92	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.5	004	0.4000	44.00	4.40.00	n= 0.050
0.5	394	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.4	204	0.4000	40.00	400.00	n= 0.050
0.4	361	0.1800	13.88	138.82	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.2	252	0.4500	12.67	106 70	n= 0.050
0.3	252	0.1500	12.07	126.72	Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					·
0.4	333	0.1700	13.49	134.91	n= 0.050 Trap/Vee/Rect Channel Flow,
0.4	333	0.1700	13.49	134.91	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.5	440	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,
0.5	440	0.1900	14.20	142.02	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.6	459	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,
0.0	400	0.1000	13.03	130.00	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.4	33/	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
∪. -1	504	3.1700	10.70	104.01	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
51.0	6,226	Total			
31.0	0,220	ıolai			

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Summary for Subcatchment 8S: WS 1-6

Runoff = 1.20 cfs @ 11.93 hrs, Volume= 0.051 af, Depth= 0.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 2-Year Rainfall=2.40"

Area	(ac)	CN De	scription					
0.	000	98 Untreated existing impervious, HSG A						
0.	000	98 Ur	treated exis	ting imperv	rious, HSG C			
0.	000	98 Ur	treated exis	ting imperv	rious, HSG D			
0.	000	98 Ex	isting imper	vious to be	treated as offset, HSG D			
0.	000	30 Ex	isting mead	ow, non-gra	azed, HSG A			
0.	000	71 Ex	isting mead	ow, non-gra	azed, HSG C			
0.	000		isting mead	ow, non-gra	azed, HSG D			
	000		isting Wood					
	000		isting Wood					
	000		isting Wood					
	000		oposed Woo					
	000		oposed Woo					
	181				e treated, HSG C			
	050				e treated, HSG D			
	000				rvious, HSG C			
	000				rvious, HSG D			
	000				dow, non-grazed, HSG C			
	000				dow, non-grazed, HSG D			
	262				idow to be treated, HSG C			
	111		•	•	dow to be treated, HSG D			
	056		oposed mea					
	000		oposed mea					
	000		oposed mea					
	000		oposed mea		I, HSG D			
	660		eighted Ave	_				
	429		.00% Pervio					
0.	231	35	.00% Imper	vious Area				
т.	المصمطا	. Clan	- \/-lit/	Canacity	Decemention			
Tc (min)	Length			Capacity	Description			
(min)	(feet	,		(cfs)	01 (5)			
1.4	100	0.020	0 1.19		Sheet Flow,			
0.5	0.0		0.00		Smooth surfaces n= 0.011 P2= 2.40"			
0.5	80	0.030	2.60		Shallow Concentrated Flow,			
0.0	40-	7 0 400	10.04	0.00	Grassed Waterway Kv= 15.0 fps			
0.2	107	7 0.120	0 10.21	8.02	Pipe Channel,			
					12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25'			
	20-	7 Tatal			n= 0.020 Corrugated PE, corrugated interior			

2.1 287 Total

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Summary for Subcatchment 9S: WS 1-7

Runoff = 11.58 cfs @ 12.33 hrs, Volume= 1.435 af, Depth= 0.55"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
10.166	70	Existing Woods, Good, HSG C
8.946	77	Existing Woods, Good, HSG D
1.118	70	Proposed Woods, Good, HSG C
1.643	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.068	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.838	71	Proposed meadow, ski trail, HSG C
5.370	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
31.149	74	Weighted Average
31.081		99.78% Pervious Area
0.068		0.22% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	5.8	100	0.2700	0.29		Sheet Flow,
						n= 0.240 P2= 2.40"
	1.0	229	0.2700	3.64		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.5	216	0.3200	1.41		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	5.1	483	0.4000	1.58		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.1	251	0.2900	1.35		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	1.5	311	0.2300	3.36		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	4.1	863	0.2500	3.50		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.2	956	0.2100	7.19	21.56	Trap/Vee/Rect Channel Flow, ditch
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.069 Riprap, 6-inch
	7.1	413	0.1500	0.97		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.8	509	0.1500	10.18	91.58	Trap/Vee/Rect Channel Flow,
						Bot.W=8.00' D=1.00' Z= 1.0 '/' Top.W=10.00'
_						n= 0.050
	33.2	4,331	Total			

Summary for Subcatchment 10S: WS 1A

Runoff = 1.68 cfs @ 12.25 hrs, Volume= 0.174 af, Depth= 0.68"

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Area ((ac) C	N Desc	cription							
0.0	000	8 Untr	Intreated existing impervious, HSG A							
			Intreated existing impervious, HSG C							
		98 Untreated existing impervious, HSG D								
					azed, HSG A					
					azed, HSG C					
					azed, HSG D					
			•	s, Good, H						
				s, Good, H						
				s, Good, H						
				ds, Good, I						
				ds, Good, l						
					e treated, HSG C					
0.0			osed impe	ervious to b	e treated, HSG D					
0.0	000	8 Untr	eated prop	osed impe	rvious, HSG C					
0.0	000	8 Untr	eated prop	osed impe	rvious, HSG D					
0.0	000 7	'1 Prop	osed deve	loped mea	dow, non-grazed, HSG C					
0.0	000 7				dow, non-grazed, HSG D					
					dow to be treated, HSG C					
				•	dow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lift						
				dow, ski lift dow, ski lift						
3.0	076 7	77 Weid	hted Aver	age						
	076		00% Pervi							
0	0.0	100.	00701 0111	0407.104						
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Description					
				(013)	Oh a of Elevi					
10.9	31	0.0600	0.05		Sheet Flow,					
- 0	404		0.04		Woods: Dense underbrush n= 0.800 P2= 2.40"					
5.2	191	0.0600	0.61		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
1.1	59	0.1400	0.94		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
4.9	193	0.0700	0.66		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
4.1	161	0.0700	0.66		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
2.2	107	0.1100	0.83		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.1	79	0.0500	9.26	314.98	Trap/Vee/Rect Channel Flow,					
0.1	. 0	0.000	3.23	0.1.00	Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'					
					n= 0.050					
20 5	004	Total			11 0.000					
28.5	821	าบเสเ								

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Summary for Subcatchment 11S: WS 1B

Runoff = 5.93 cfs @ 12.10 hrs, Volume= 0.423 af, Depth= 0.77"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.425	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.072	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
5.568	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.084	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.429	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.578	79	Weighted Average
6.069		92.26% Pervious Area
0.509		7.74% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
0.7	336	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041 Riprap, 2-inch
0.7	339	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.0	000	0.0700	0.00	00.05	n= 0.041
8.0	336	0.0700	6.98	20.95	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.7	278	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
0.7	210	0.0000	0.40	19.59	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
0.7	283	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
0		0.0000	0.10	.0.00	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
0.3	118	0.0800	7.46	22.39	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
0.4	164	0.0700	6.98	20.95	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
0.1	83	0.1400	9.87	29.62	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
4.0	EOE	0.0000	C 4C	40.20	n= 0.041
1.3	505	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
16.6	2,480	Total			11- 0.041
10.0	2,400	ı Ulai			

Summary for Subcatchment 12S: WS 1B1 - Lot G

Runoff = 4.85 cfs @ 11.93 hrs, Volume= 0.206 af, Depth= 1.04"

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Area (ac) CN Description	
0.000 98 Untreated existing impervious, HSG A	
0.000 98 Untreated existing impervious, HSG C	
0.000 98 Untreated existing impervious, HSG D	
0.000 98 Existing impervious to be treated as offset, HSG D	
0.000 30 Existing meadow, non-grazed, HSG A	
0.000 71 Existing meadow, non-grazed, HSG C	
0.000 78 Existing meadow, non-grazed, HSG D	
0.000 30 Existing Woods, Good, HSG A	
0.000 70 Existing Woods, Good, HSG C	
0.145 77 Existing Woods, Good, HSG D	
0.000 70 Proposed Woods, Good, HSG C	
0.007 77 Proposed Woods, Good, HSG D	
0.000 98 Proposed impervious to be treated, HSG C	
0.765 98 Proposed impervious to be treated, HSG D	
0.000 98 Untreated proposed impervious, HSG C	
0.000 98 Untreated proposed impervious, HSG D	
0.000 71 Proposed developed meadow, non-grazed, HSG C	
0.000 78 Proposed developed meadow, non-grazed, HSG D	
0.000 71 Proposed developed meadow to be treated, HSG C	
1.438 78 Proposed developed meadow to be treated, HSG D	
0.000 71 Proposed meadow, ski trail, HSG C	
0.030 78 Proposed meadow, ski trail, HSG D	
0.000 71 Proposed meadow, ski lift, HSG C	
0.000 78 Proposed meadow, ski lift, HSG D	
2.385 84 Weighted Average	
1.620 67.92% Pervious Area	
0.765 32.08% Impervious Area	
Tc Length Slope Velocity Capacity Description	
(min) (feet) (ft/ft) (ft/sec) (cfs)	
1.4 100 0.0200 1.19 Sheet Flow,	
Smooth surfaces n= 0.011 P2= 2.	40"
0.5 81 0.0200 2.87 Shallow Concentrated Flow,	40
Paved Kv= 20.3 fps	
0.3 304 0.1000 15.55 46.66 Trap/Vee/Rect Channel Flow,	
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top	W=4 00'
n= 0.022	T.00
2.2 485 Total	

Summary for Subcatchment 13S: WS 1C

Runoff = 1.84 cfs @ 12.18 hrs, Volume= 0.164 af, Depth= 0.68"

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Area	(ac) C	N Des	cription				
0.	000	98 Untreated existing impervious, HSG A					
0.000 98 Untreated existing impervious, HSG C							
0.000 98 Untreated existing impervious, HSG D							
0.000 98 Existing impervious to be treated as offset, HSG D							
					azed, HSG A		
					azed, HSG C		
					azed, HSG D		
			•	s, Good, H			
			0	s, Good, H s, Good, H			
				ds, Good, I			
				ds, Good, l ds, Good, l			
					e treated, HSG C		
			•		e treated, HSG D		
			•		rvious, HSG C		
0.	000				rvious, HSG D		
		71 Prop	osed deve	eloped mea	dow, non-grazed, HSG C		
					dow, non-grazed, HSG D		
					dow to be treated, HSG C		
					dow to be treated, HSG D		
				dow, ski tra	·		
				dow, ski tra dow, ski lift			
				dow, ski lift dow, ski lift			
			ghted Aver		, NOO D		
	908 <i>- 1</i>	,	00% Pervi	•			
۷.۰	000	100.	00701 0111	04071104			
Tc	Length	Slope	Velocity	Capacity	Description		
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	'		
10.6	100	0.0600	0.16	, ,	Sheet Flow,		
					Grass: Dense n= 0.240 P2= 2.40"		
1.2	122	0.0600	1.71		Shallow Concentrated Flow,		
					Short Grass Pasture Kv= 7.0 fps		
0.4	46	0.4800	1.73		Shallow Concentrated Flow,		
					Forest w/Heavy Litter Kv= 2.5 fps		
4.9	221	0.0900	0.75		Shallow Concentrated Flow,		
0.0	454	0.4000	0.70		Forest w/Heavy Litter Kv= 2.5 fps		
3.2	154	0.1000	0.79		Shallow Concentrated Flow,		
0.6	202	0.0900	7.02	22.75	Forest w/Heavy Litter Kv= 2.5 fps		
0.0	283	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'		
					n= 0.041		
2.0	88	0.0900	0.75		Shallow Concentrated Flow,		
2.0	00	0.0000	0.70		Forest w/Heavy Litter Kv= 2.5 fps		
22.9	1,014	Total					
,	.,•						

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Summary for Subcatchment 14S: WS 1C1

Runoff = 16.06 cfs @ 12.12 hrs, Volume= 1.199 af, Depth= 0.93"

Area (ac)	CN	Description			
0.000	98	Untreated existing impervious, HSG A			
0.000	98	Untreated existing impervious, HSG C			
3.283	98	Untreated existing impervious, HSG D			
0.000	98	Existing impervious to be treated as offset, HSG D			
0.000	30	Existing meadow, non-grazed, HSG A			
0.000	71	Existing meadow, non-grazed, HSG C			
3.459	78	Existing meadow, non-grazed, HSG D			
0.000	30	Existing Woods, Good, HSG A			
0.000	70	Existing Woods, Good, HSG C			
6.788	77	Existing Woods, Good, HSG D			
0.000	70	Proposed Woods, Good, HSG C			
0.702	77	Proposed Woods, Good, HSG D			
0.000	98	Proposed impervious to be treated, HSG C			
0.000	98	Proposed impervious to be treated, HSG D			
0.000	98	Untreated proposed impervious, HSG C			
0.000	98	Untreated proposed impervious, HSG D			
0.000	71	Proposed developed meadow, non-grazed, HSG C			
0.321	78	Proposed developed meadow, non-grazed, HSG D			
0.000	71	Proposed developed meadow to be treated, HSG C			
0.000	78	Proposed developed meadow to be treated, HSG D			
0.000	71	Proposed meadow, ski trail, HSG C			
0.998	78	Proposed meadow, ski trail, HSG D			
0.000	71	Proposed meadow, ski lift, HSG C			
0.000	78	Proposed meadow, ski lift, HSG D			
15.551	82	Weighted Average			
12.268 78.89% Pervious Area					
3.283		21.11% Impervious Area			

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
_	10.7	48	0.1500	0.07	,	Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	0.5	172	0.1500	6.24		Shallow Concentrated Flow,
						Unpaved Kv= 16.1 fps
	1.7	164	0.0500	1.57		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	0.3	77	0.3100	3.90		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	0.4	157	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.9	350	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.5	219	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
	0.5	054	0.0000	7.00	00.75	n= 0.041
	0.5	251	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
	0.0	246	0.0000	C 4C	40.20	n= 0.041
	8.0	316	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
	0.1	73	0.1900	11.50	34.51	
	0.1	73	0.1900	11.50	34.31	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.7	300	0.0700	6.98	20.95	Trap/Vee/Rect Channel Flow,
	0.7	300	0.0700	0.90	20.93	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.8	179	0.0200	3.73	11.20	Trap/Vee/Rect Channel Flow,
	0.0	173	0.0200	0.70	11.20	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	1.0	342	0.0500	5.90	17.70	Trap/Vee/Rect Channel Flow,
	1.0	J	5.5555	3.00		Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
-	18.9	2,648	Total			
		_, •				

Summary for Subcatchment 15S: WS 1C2- Ex lot E

Runoff = 13.62 cfs @ 11.96 hrs, Volume= 0.639 af, Depth= 1.30"

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Area ((ac) C	N Des	cription						
		98 Untr	eated exis	ting imperv	rious, HSG A				
0.0	000				rious, HSG C				
0.0	000				rious, HSG D				
3.	136		treated as offset, HSG D						
0.000 30 Existing meadow, non-grazed, HSG A									
0.0	000 7	1 Exis	ting meado	ow, non-gra	azed, HSG C				
0.	703 7	78 Exis	ting meado	ow, non-gra	azed, HSG D				
0.0	000 3	30 Exis	ting Wood	s, Good, H	SG A				
				s, Good, H					
			•	s, Good, H					
				ds, Good,					
				ds, Good,					
			•		e treated, HSG C				
			•		e treated, HSG D				
					rvious, HSG C				
					rvious, HSG D				
					dow, non-grazed, HSG C				
				•	dow, non-grazed, HSG D				
					dow to be treated, HSG C				
					dow to be treated, HSG D				
				dow, ski tra					
				dow, ski tra					
				dow, ski lift dow, ski lift					
					I, N3G D				
	919 8 783		ghted Aver 2% Pervio						
	703 136			us Area ∕ious Area					
3.	130	32.9	0 /0 IIIIpei v	nous Area					
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Boompaon				
1.0	100	0.0500	1.72	(0.0)	Sheet Flow,				
1.0	100	0.0000	1.72		Smooth surfaces n= 0.011 P2= 2.40"				
0.4	90	0.0500	3.60		Shallow Concentrated Flow,				
0.1	00	0.0000	0.00		Unpaved Kv= 16.1 fps				
1.2	114	0.3900	1.56		Shallow Concentrated Flow,				
		0.000			Forest w/Heavy Litter Kv= 2.5 fps				
1.3	356	0.0300	4.57	13.71	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.041				
1.2	195	0.0300	2.79		Shallow Concentrated Flow,				
					Unpaved Kv= 16.1 fps				
0.1	31	0.3900	10.05		Shallow Concentrated Flow,				
					Unpaved Kv= 16.1 fps				
5.2	886	Total							

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Summary for Subcatchment 16S: WS 1D- Ex Timbers

Runoff = 19.55 cfs @ 12.60 hrs, Volume= 3.239 af, Depth= 0.63"

CN	Description
98	Untreated existing impervious, HSG A
98	Untreated existing impervious, HSG C
98	Untreated existing impervious, HSG D
98	Existing impervious to be treated as offset, HSG D
30	Existing meadow, non-grazed, HSG A
71	Existing meadow, non-grazed, HSG C
78	Existing meadow, non-grazed, HSG D
30	Existing Woods, Good, HSG A
70	Existing Woods, Good, HSG C
77	Existing Woods, Good, HSG D
70	Proposed Woods, Good, HSG C
77	Proposed Woods, Good, HSG D
98	Proposed impervious to be treated, HSG C
98	Proposed impervious to be treated, HSG D
98	Untreated proposed impervious, HSG C
98	Untreated proposed impervious, HSG D
71	Proposed developed meadow, non-grazed, HSG C
78	Proposed developed meadow, non-grazed, HSG D
71	Proposed developed meadow to be treated, HSG C
78	Proposed developed meadow to be treated, HSG D
71	Proposed meadow, ski trail, HSG C
78	Proposed meadow, ski trail, HSG D
71	Proposed meadow, ski lift, HSG C
78	Proposed meadow, ski lift, HSG D
76	Weighted Average
	90.83% Pervious Area
	9.17% Impervious Area
	98 98 98 98 98 30 71 78 70 77 98 98 98 71 78 71 78 71 78

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	60	0.2300	0.09		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	130	0.2300	1.20		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.6	182	0.2200	1.17		Shallow Concentrated Flow,
5 0	004	0.0000	4.47		Forest w/Heavy Litter Kv= 2.5 fps
5.6	394	0.2200	1.17		Shallow Concentrated Flow,
4.4	298	0.2000	1.12		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
4.4	290	0.2000	1.12		Forest w/Heavy Litter Kv= 2.5 fps
3.9	183	0.1000	0.79		Shallow Concentrated Flow,
0.5	100	0.1000	0.70		Forest w/Heavy Litter Kv= 2.5 fps
3.4	230	0.2000	1.12		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.5	254	0.1000	8.17	114.37	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.069 Riprap, 6-inch
0.3	159	0.1300	9.31	130.40	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.069 Riprap, 6-inch
0.3	160	0.1100	8.57	119.95	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
0.0	405	0.0500	4.05		n= 0.069 Riprap, 6-inch
2.2	165	0.2500	1.25		Shallow Concentrated Flow,
3.2	245	0.2600	1.27		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
5.2	243	0.2000	1.21		Forest w/Heavy Litter Kv= 2.5 fps
0.4	192	0.1000	8.17	114.37	Trap/Vee/Rect Channel Flow,
0.4	102	0.1000	0.17	114.07	Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.069 Riprap, 6-inch
0.1	231	0.1300	29.21	408.97	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/ Top.W=9.00'
					n= 0.022
4.5	280	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.6	134	0.3000	1.37		Shallow Concentrated Flow,
5 0	004	0.4000	4.00		Forest w/Heavy Litter Kv= 2.5 fps
5.6	334	0.1600	1.00		Shallow Concentrated Flow,
0.2	160	0.000	16 01	225 27	Forest w/Heavy Litter Kv= 2.5 fps
0.2	168	0.0800	16.81	235.27	Trap/Vee/Rect Channel Flow, Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.030 Stream, clean & straight
1.1	398	0.0100	5.94	83.18	Trap/Vee/Rect Channel Flow,
	000	0.0100	0.04	00.10	Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.030 Stream, clean & straight
0.5	334	0.0400	11.88	166.36	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.030 Stream, clean & straight
0.2	176	0.1900	15.54	217.55	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'

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n= 0.050 Mountain streams w/large boulders

53.2 4,707 Total

Summary for Subcatchment 17S: WS 1D1

Runoff = 11.48 cfs @ 11.94 hrs, Volume= 0.490 af, Depth= 0.77"

	Area (ac)	CN	Description
	0.000	98	Untreated existing impervious, HSG A
	0.085	98	Untreated existing impervious, HSG C
	0.000	98	Untreated existing impervious, HSG D
	0.000	98	Existing impervious to be treated as offset, HSG D
	0.000	30	Existing meadow, non-grazed, HSG A
	0.048	71	Existing meadow, non-grazed, HSG C
	0.115	78	Existing meadow, non-grazed, HSG D
	0.000	30	Existing Woods, Good, HSG A
	0.722	70	Existing Woods, Good, HSG C
	0.593	77	Existing Woods, Good, HSG D
	0.001	70	Proposed Woods, Good, HSG C
	0.067	77	Proposed Woods, Good, HSG D
	1.711	98	Proposed impervious to be treated, HSG C
	0.017	98	Proposed impervious to be treated, HSG D
	0.000	98	Untreated proposed impervious, HSG C
	0.000	98	Untreated proposed impervious, HSG D
	0.000	71	Proposed developed meadow, non-grazed, HSG C
	0.000	78	Proposed developed meadow, non-grazed, HSG D
	3.438	71	Proposed developed meadow to be treated, HSG C
	0.822	78	Proposed developed meadow to be treated, HSG D
	0.003	71	Proposed meadow, ski trail, HSG C
	0.000	78	Proposed meadow, ski trail, HSG D
	0.000	71	Proposed meadow, ski lift, HSG C
_	0.000	78	Proposed meadow, ski lift, HSG D
	7.622	79	Weighted Average
	5.809		76.21% Pervious Area
	1.813		23.79% Impervious Area

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T (min		•	Velocity (ft/sec)	Capacity (cfs)	Description
0.	7 100	0.1100	2.36		Sheet Flow,
					Smooth surfaces n= 0.011 P2= 2.40"
0.	0 19	0.1100	6.73		Shallow Concentrated Flow,
					Paved Kv= 20.3 fps
0.	3 69	0.0600	3.67		Shallow Concentrated Flow,
					Grassed Waterway Kv= 15.0 fps
0.	5 427	0.1200	13.38	23.65	
					18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38'
					n= 0.020 Corrugated PE, corrugated interior
0.:	2 316	0.1900	31.50	125.99	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
					n= 0.016 Asphalt, rough
0.	1 118	0.2400	22.93	72.04	•
					24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'
					n= 0.020 Corrugated PE, corrugated interior
0.	6 372	0.1500	10.92	43.69	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
					n= 0.041 Riprap, 2-inch
2.	4 1,421	Total			

Summary for Subcatchment 18S: WS 1D2

Runoff = 2.61 cfs @ 12.08 hrs, Volume= 0.190 af, Depth= 0.48"

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Area	(ac) (CN Des	cription					
0.	000	98 Unti	eated exis	ting imperv	rious, HSG A			
0.000 98 Untreated existing impervious, HSG C								
0.000 98 Untreated existing impervious, HSG D								
0.	000	98 Exis	ting imperv	ious to be	treated as offset, HSG D			
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A			
0.	.000	71 Exis	ting meado	ow, non-gra	azed, HSG C			
0.	000	78 Exis	ting meado	ow, non-gra	azed, HSG D			
0.	.000	30 Exis	ting Wood	s, Good, H	SG A			
0.	962	70 Exis	ting Wood	s, Good, H	SG C			
0.	049	77 Exis	ting Wood	s, Good, H	SG D			
0.	375	70 Prop	osed Woo	ds, Good,	HSG C			
0.	139	77 Proj	osed Woo	ds, Good,	HSG D			
					e treated, HSG C			
0.			oosed impe	ervious to b	e treated, HSG D			
0.			eated prop	osed impe	rvious, HSG C			
0.	000	98 Untı	eated prop	osed impe	rvious, HSG D			
0.	277	71 Prop	osed deve	loped mea	idow, non-grazed, HSG C			
					idow, non-grazed, HSG D			
			oosed deve	loped mea	idow to be treated, HSG C			
					idow to be treated, HSG D			
				dow, ski tra				
				dow, ski tra				
				dow, ski lift				
0.	.000	78 Pro	oosed mea	dow, ski lift	t, HSG D			
4.	785	72 Wei	ghted Aver	age				
4.	785	100	.00% Pervi	ous Area				
Tc	Length		Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
7.2	100	0.1600	0.23		Sheet Flow,			
					Grass: Dense n= 0.240 P2= 2.40"			
6.2	1,123	0.1890	3.04		Shallow Concentrated Flow,			
					Short Grass Pasture Kv= 7.0 fps			
13.4	1,223	Total						

Summary for Subcatchment 19S: WS 1D3

Runoff = 2.37 cfs @ 12.00 hrs, Volume= 0.125 af, Depth= 0.55"

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Area	(ac) C	N Des	cription								
0.	0.000 98 Untreated existing impervious, HSG A										
		98 Untreated existing impervious, HSG C									
0.	.000		Untreated existing impervious, HSG D								
	0.000 98 Existing impervious to be treated as offset, HSG D										
	0.000 30 Existing meadow, non-grazed, HSG A										
0.	349				azed, HSG C						
0.	.000		•		azed, HSG D						
0.	000			s, Good, H							
0.	899	70 Exis	ting Wood	s, Good, H	SG C						
0.	.000	77 Exis	ting Wood	s, Good, H	SG D						
0.	000	70 Prop	osed Woo	ds, Good,	HSG C						
0.	.000	77 Prop	osed Woo	ds, Good,	HSG D						
0.	.000	98 Prop	osed impe	ervious to b	e treated, HSG C						
			osed impe	ervious to b	e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					dow, non-grazed, HSG C						
					dow, non-grazed, HSG D						
					dow to be treated, HSG C						
					dow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lift							
				dow, ski lift	I, NSG D						
			ghted Aver								
	340 377		2% Pervio								
U.	311	13.0	o% imperv	/ious Area							
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Boompaon						
0.9	93	0.0500	1.69	(0.0)	Sheet Flow,						
0.0	00	0.0000	1.00		Smooth surfaces n= 0.011 P2= 2.40"						
4.5	259	0.1500	0.97		Shallow Concentrated Flow,						
1.0	200	0.1000	0.01		Forest w/Heavy Litter Kv= 2.5 fps						
0.7	220	0.1100	5.20	15.60	Trap/Vee/Rect Channel Flow, roadway ditch						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
0.8	70	0.3100	1.39		Shallow Concentrated Flow,						
			_		Forest w/Heavy Litter Kv= 2.5 fps						
0.3	89	0.1100	5.20	15.60	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/ Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
7.2	731	Total									

Summary for Subcatchment 20S: WS 1D4

Runoff = 0.86 cfs @ 12.06 hrs, Volume= 0.055 af, Depth= 0.59"

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Area	(ac)	CN [Des	cription						
0.	.000	98 L	Jntr	eated exis	ting imperv	rious, HSG A				
0.063 98 Untreated existing impervious, HSG C										
0.	0.037 98 Untreated existing impervious, HSG D									
0.	0.000 98 Existing impervious to be treated as offset, HSG D									
0.	.000	30 E	Exis	ting meado	ow, non-gra	azed, HSG A				
0.	.295	71 E	Exis	ting meado	ow, non-gra	azed, HSG C				
0.	.074	78 E	Exis	ting meado	ow, non-gra	azed, HSG D				
0.	.000	30 E	Exis	ting Woods	s, Good, H	SG A				
0.	.307	70 E	Exis	ting Woods	s, Good, H	SG C				
0.	.158	77 E	Exis	ting Woods	s, Good, H	SG D				
0.	.000	70 F	Prop	osed Woo	ds, Good,	HSG C				
	.000				ds, Good,					
	.000	98 F	Prop	osed impe	ervious to b	e treated, HSG C				
	.000					e treated, HSG D				
	.000					rvious, HSG C				
	.000					rvious, HSG D				
	.144					idow, non-grazed, HSG C				
	.041					idow, non-grazed, HSG D				
	.000				•	dow to be treated, HSG C				
	.000					dow to be treated, HSG D				
	.000				dow, ski tra					
	.000				dow, ski tra					
	.000				dow, ski lift					
	.000				dow, ski lift	t, HSG D				
	.119			ghted Aver						
	.019			6% Pervio						
0.	.100	3	3.94	% Impervi	ous Area					
Tc	Length			Velocity	Capacity	Description				
(min)	(feet		/ft)	(ft/sec)	(cfs)					
10.8	59	0.22	200	0.09		Sheet Flow,				
						Woods: Dense underbrush n= 0.800 P2= 2.40"				
0.8	157	7 0.22	200	3.28		Shallow Concentrated Flow,				
						Short Grass Pasture Kv= 7.0 fps				
0.6	179	0.10	000	4.96	14.88	Trap/Vee/Rect Channel Flow, ditch				
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
						n= 0.069 Riprap, 6-inch				
12.2	395	5 Tota	al							

Summary for Subcatchment 21S: Untreated from Timbers

Runoff = 7.28 cfs @ 11.96 hrs, Volume= 0.329 af, Depth= 0.87"

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Area	(ac) (CN Des	scription							
0.	000	98 Unt	reated exis	ting imperv	rious, HSG A					
0.	0.000 98 Untreated existing impervious, HSG C									
0.000 98 Untreated existing impervious, HSG D										
0.000 98 Existing impervious to be treated as offset, HSG D										
	000				azed, HSG A					
			sting mead	ow, non-gra	azed, HSG C					
0.	000		sting mead	ow, non-gra	azed, HSG D					
	.000		sting Wood	s, Good, H	SG A					
	.000		sting Wood							
			sting Wood							
	.000		posed Woo							
	.000		posed Woo							
					pe treated, HSG C					
					pe treated, HSG D					
					ervious, HSG C					
					ervious, HSG D					
	026				adow, non-grazed, HSG C					
	185				adow, non-grazed, HSG D					
	000				adow to be treated, HSG C					
					adow to be treated, HSG D					
			posed mea							
			posed mea							
	000		posed mea							
	000		posed mea		t, HSG D					
			ighted Avei							
	397		07% Pervio							
1.	128	24.	93% Imper	vious Area						
_		01			B					
Tc	Length			Capacity	Description					
<u>(min)</u>	(feet)			(cfs)						
0.7	92	0.1000	2.23		Sheet Flow,					
					Smooth surfaces n= 0.011 P2= 2.40"					
0.3	105	0.1700	6.18		Shallow Concentrated Flow,					
					Grassed Waterway Kv= 15.0 fps					
3.4	1,120	0.1100	5.56	22.23	Trap/Vee/Rect Channel Flow, ditch					
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'					
					n= 0.069 Riprap, 6-inch					
4.4	1,317	Total								

Summary for Subcatchment 22S: WS 1D6

Runoff = 3.56 cfs @ 11.96 hrs, Volume= 0.168 af, Depth= 1.10"

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Area	(ac)	CN	Desc	ription						
0.	000	98	Untre	eated exis	ting imperv	ious, HSG A				
0.	0.000 98 Untreated existing impervious, HSG C									
0.	0.000 98 Untreated existing impervious, HSG D									
0.	0.000 98 Existing impervious to be treated as offset, HSG D									
0.	.000	30	Exist	ing meado	ow, non-gra	azed, HSG A				
0.	.000	71	Exist	ing meado	ow, non-gra	azed, HSG C				
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D				
0.	000	30	Exist	ing Woods	s, Good, H	SG A				
0.	.000	70	Exist	ing Woods	s, Good, H	SG C				
0.	000	77	Exist	ing Woods	s, Good, H	SG D				
	000	70			ds, Good, I					
	000	77	Prop	osed Woo	ds, Good, l	HSG D				
	103	98				e treated, HSG C				
	537	98				e treated, HSG D				
	000	98				rvious, HSG C				
	000	98				rvious, HSG D				
	.000	71				dow, non-grazed, HSG C				
	.000	78				dow, non-grazed, HSG D				
	127	71				dow to be treated, HSG C				
	062	78				dow to be treated, HSG D				
	.000	71			dow, ski tra					
	.000	78			dow, ski tra					
	.000	71			dow, ski lift					
0.	.000	78	Prop	<u>osed mea</u>	dow, ski lift	t, HSG D				
	829	85		jhted Aver						
1.	189		65.0°	1% Pervio	us Area					
0.	640		34.99	9% Imperv	/ious Area					
Tc	Length		lope	Velocity	Capacity	Description				
(min)	(feet		ft/ft)	(ft/sec)	(cfs)					
4.2	66	6 0.2	700	0.26		Sheet Flow,				
						Grass: Dense n= 0.240 P2= 2.40"				
0.7	89	9 0.0	200	2.12		Shallow Concentrated Flow,				
						Grassed Waterway Kv= 15.0 fps				
0.5	310	0.0	600	11.11	8.73	Pipe Channel,				
						12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25'				
						n= 0.013 Corrugated PE, smooth interior				
5.4	465	5 Tot	tal							

Summary for Subcatchment 23S: WS 1D7

Runoff = 3.68 cfs @ 12.46 hrs, Volume= 0.543 af, Depth= 0.55"

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_	Area (ac)	CN	Description
	0.000	98	Untreated existing impervious, HSG A
	0.000	98	Untreated existing impervious, HSG C
	0.000	98	Untreated existing impervious, HSG D
	0.000	98	Existing impervious to be treated as offset, HSG D
	0.000	30	Existing meadow, non-grazed, HSG A
	2.084	71	Existing meadow, non-grazed, HSG C
	3.608	78	Existing meadow, non-grazed, HSG D
	0.000	30	Existing Woods, Good, HSG A
	3.198	70	Existing Woods, Good, HSG C
	1.644	77	Existing Woods, Good, HSG D
	0.169	70	Proposed Woods, Good, HSG C
	0.253	77	Proposed Woods, Good, HSG D
	0.000	98	Proposed impervious to be treated, HSG C
	0.000	98	Proposed impervious to be treated, HSG D
	0.008	98	Untreated proposed impervious, HSG C
	0.036	98	Untreated proposed impervious, HSG D
	0.091	71	Proposed developed meadow, non-grazed, HSG C
	0.164	78	Proposed developed meadow, non-grazed, HSG D
	0.000	71	Proposed developed meadow to be treated, HSG C
	0.000	78	Proposed developed meadow to be treated, HSG D
	0.244	71	Proposed meadow, ski trail, HSG C
	0.288	78	Proposed meadow, ski trail, HSG D
	0.000	71	Proposed meadow, ski lift, HSG C
	0.000	78	Proposed meadow, ski lift, HSG D
	11.787	74	Weighted Average
	11.743		99.63% Pervious Area
	0.044		0.37% Impervious Area

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(Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	7.2	100	0.1600	0.23	, ,	Sheet Flow,
						Grass: Dense n= 0.240 P2= 2.40"
	0.5	89	0.1600	2.80		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	5.4	228	0.0800	0.71		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.0	185	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.4	217	0.1800	1.06		Shallow Concentrated Flow,
	4.0	070	0.0400			Forest w/Heavy Litter Kv= 2.5 fps
	4.0	273	0.2100	1.15		Shallow Concentrated Flow,
	4.0	202	0.0400	4 4 5		Forest w/Heavy Litter Kv= 2.5 fps
	4.3	293	0.2100	1.15		Shallow Concentrated Flow,
	3.8	264	0.2100	1 15		Forest w/Heavy Litter Kv= 2.5 fps
	3.0	204	0.2100	1.15		Shallow Concentrated Flow,
	3.3	251	0.2500	1.25		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
	3.3	231	0.2300	1.20		Forest w/Heavy Litter Kv= 2.5 fps
	4.5	300	0.2000	1.12		Shallow Concentrated Flow,
	4.0	000	0.2000	1.12		Forest w/Heavy Litter Kv= 2.5 fps
	2.6	194	0.2500	1.25		Shallow Concentrated Flow,
	2.0	101	0.2000	1.20		Forest w/Heavy Litter Kv= 2.5 fps
	0.2	138	0.2200	10.15	30.45	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.050
	42.2	2,532	Total			

Summary for Subcatchment 24S: WS 2

Runoff = 0.89 cfs @ 12.17 hrs, Volume= 0.077 af, Depth= 0.72"

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	Area ((ac)	CN	Desc	cription		
	0.	000	98	Untre	eated exis	ting imperv	ious, HSG A
	0.	000	98				ious, HSG C
	0.	070	98				ious, HSG D
	0.	000	98				treated as offset, HSG D
	0.	000	30	Exist	ing meado	ow, non-gra	azed, HSG A
	0.	000	71	Exist	ing mead	ow, non-gra	azed, HSG C
	0.	000	78	Exist	ing mead	ow, non-gra	azed, HSG D
	0.	000	30			s, Good, H	
	0.	000	70	Exist	ing Wood	s, Good, H	SG C
	1.	145	77	Exist	ing Wood	s, Good, H	SG D
	0.	000	70	Prop	osed Woo	ds, Good,	HSG C
	0.	000	77			ds, Good,	
	0.	000	98	Prop	osed impe	ervious to b	e treated, HSG C
	0.	000	98	Prop	osed impe	ervious to b	e treated, HSG D
	0.	000	98	Untre	eated prop	osed impe	rvious, HSG C
	0.	000	98	Untre	eated prop	osed impe	rvious, HSG D
	0.	000	71				dow, non-grazed, HSG C
	0.	048	78	Prop	osed deve	eloped mea	dow, non-grazed, HSG D
	0.	000	71	Prop	osed deve	eloped mea	dow to be treated, HSG C
	0.	012	78	Prop	osed deve	eloped mea	dow to be treated, HSG D
	0.	000	71	Prop	osed mea	dow, ski tra	ail, HSG C
		000	78	Prop	osed mea	dow, ski tra	ail, HSG D
	0.	000	71	Prop	osed mea	dow, ski lift	t, HSG C
	0.	000	78	Prop	osed mea	dow, ski lift	t, HSG D
	1.:	275	78	Weig	hted Aver	age	
	1.:	205		94.5	1% Pervio	us Area	
	0.	070		5.49	% Impervi	ous Area	
	Tc	Length	າ S	Slope	Velocity	Capacity	Description
(1	min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	10.7	35	0.	0800	0.05		Sheet Flow,
							Woods: Dense underbrush n= 0.800 P2= 2.40"
	5.7	242	2 0.	0800	0.71		Shallow Concentrated Flow,
							Forest w/Heavy Litter Kv= 2.5 fps
	4.1	176	6 0.	0800	0.71		Shallow Concentrated Flow,
							Forest w/Heavy Litter Kv= 2.5 fps
	2.0	129	0.	0500	1.10	3.30	Trap/Vee/Rect Channel Flow,
							Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
							n= 0.220
	22.5	582	2 To	otal			

Summary for Subcatchment 25S: WS 2A

Runoff = 4.94 cfs @ 11.93 hrs, Volume= 0.213 af, Depth= 1.23"

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Area	(ac) (CN D	escription		
0.	000	98 U	ntreated exis	ting imperv	rious, HSG A
0.	000				vious, HSG C
0.	010	98 U	ntreated exis	ting imperv	rious, HSG D
0.	000	98 E	kisting imper	vious to be	treated as offset, HSG D
0.	000	30 E	kisting mead	ow, non-gra	azed, HSG A
0.	000	71 E	kisting mead	ow, non-gra	azed, HSG C
0.	000		kisting mead	ow, non-gra	azed, HSG D
	000		kisting Wood		
	000		kisting Wood		
0.	002		kisting Wood	s, Good, H	SG D
	000		oposed Woo		
	000		oposed Woo		
					pe treated, HSG C
					pe treated, HSG D
				•	ervious, HSG C
	000				ervious, HSG D
	000				adow, non-grazed, HSG C
	000				adow, non-grazed, HSG D
	000				adow to be treated, HSG C
	162		•	•	adow to be treated, HSG D
	000		roposed mea		
	000		oposed mea		
	000		roposed mea		
	000		roposed mea		t, HSG D
			eighted Avei	•	
	164		5.85% Pervio		
0.	920	44	1.15% Imper	vious Area	
Тс	Length	Slop	e Velocity	Capacity	Description
(min)	(feet)			(cfs)	· · · · · · · · ·
1.2	100	0.030	0 1.40	, ,	Sheet Flow,
					Smooth surfaces n= 0.011 P2= 2.40"
1.6	457	0.090	0 4.70	14.11	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.069 Riprap, 6-inch
2.8	557	Total			

Summary for Subcatchment 27S: WS 3A

Runoff = 1.25 cfs @ 12.26 hrs, Volume= 0.128 af, Depth= 0.77"

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Area	(ac) C	N Desc	cription		
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A
				• .	rious, HSG C
					rious, HSG D
					treated as offset, HSG D
					azed, HSG A
					azed, HSG C
					azed, HSG D
				s, Good, H	
			0		
				s, Good, H	
			•	s, Good, H	
				ds, Good,	
				ds, Good,	
			•		e treated, HSG C
			•		e treated, HSG D
					rvious, HSG C
					rvious, HSG D
					idow, non-grazed, HSG C
					idow, non-grazed, HSG D
				•	dow to be treated, HSG C
0.			osed deve	loped mea	idow to be treated, HSG D
0.	000	71 Prop	osed mea	dow, ski tra	ail, HSG C
0.	480	78 Prop	osed mea	dow, ski tra	ail, HSG D
0.	000	71 Prop	osed mea	dow, ski lift	t, HSG C
0.	000	78 Prop	osed mea	dow, ski lift	t, HSG D
1.	985	79 Weig	hted Aver	age	
1.	876	94.5	1% Pervio	us Area	
0.	109	5.49	% Impervi	ous Area	
			•		
Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	•
10.8	53	0.1800	0.08	, ,	Sheet Flow,
10.0	00	0.1000	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"
2.1	136	0.1800	1.06		Shallow Concentrated Flow,
۷. ۱	100	0.1000	1.00		Forest w/Heavy Litter Kv= 2.5 fps
6.6	241	0.0600	0.61		Shallow Concentrated Flow,
0.0	2 4 i	0.0000	0.01		
0.2	18	0.4400	1.66		Forest w/Heavy Litter Kv= 2.5 fps
0.2	10	0.4400	1.00		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
2.7	450	0.0000	0.74		· · · · · · · · · · · · · · · · · · ·
3.7	159	0.0800	0.71		Shallow Concentrated Flow,
o -	400	0.4000	4.00		Forest w/Heavy Litter Kv= 2.5 fps
2.7	160	0.1600	1.00		Shallow Concentrated Flow,
	404	0.4000	0.70		Forest w/Heavy Litter Kv= 2.5 fps
3.4	161	0.1000	0.79		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
29.5	928	Total			

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Summary for Subcatchment 28S: WS 4

Runoff = 3.81 cfs @ 12.06 hrs, Volume= 0.247 af, Depth= 0.68"

Area	(ac)	CN	Desc	cription		
0.	.000	98	Untre	eated exis	ting imperv	rious, HSG A
	.000	98				rious, HSG C
0.	.009	98				rious, HSG D
0.	.000	98				treated as offset, HSG D
0.	.000	30				azed, HSG A
0.	.000	71				azed, HSG C
0	.000	78	Exist	ing mead	ow, non-gra	azed, HSG D
0	.000	30	Exist	ing Wood	s, Good, H	SG A
0	.000	70	Exist	ing Wood	s, Good, H	SG C
2	.993	77	Exist	ing Wood	s, Good, H	SG D
0	.000	70	Prop	osed Woo	ds, Good,	HSG C
0	.257	77	Prop	osed Woo	ds, Good,	HSG D
0.	.000	98	Prop	osed impe	ervious to b	pe treated, HSG C
0.	.000	98	Prop	osed impe	ervious to b	pe treated, HSG D
0.	.000	98				rvious, HSG C
	.000	98				rvious, HSG D
	.000	71				adow, non-grazed, HSG C
	.000	78				adow, non-grazed, HSG D
	.000	71				adow to be treated, HSG C
	.000	78				adow to be treated, HSG D
	.000	71			dow, ski tra	
	.104	78			dow, ski tra	
	.000	71			dow, ski lif	
	.000	78			dow, ski lif	t, HSG D
	.363	77		hted Aver		
	.354			9% Pervio		
0.	.009		0.21	% Impervi	ous Area	
_						
Tc	Lengt		Slope	Velocity	Capacity	Description
(min)	(fee		(ft/ft)	(ft/sec)	(cfs)	
9.0	10	0 0	.0900	0.18		Sheet Flow,
						Grass: Dense n= 0.240 P2= 2.40"
2.1	26	9 0	.0900	2.10		Shallow Concentrated Flow,
		_				Short Grass Pasture Kv= 7.0 fps
1.8	10	0 0	.1400	0.94		Shallow Concentrated Flow,
				a		Forest w/Heavy Litter Kv= 2.5 fps
0.3	43	6 0	.1100	24.47	2,741.07	
						Bot.W=6.00' D=8.00' Z= 1.0 '/' Top.W=22.00'
						n= 0.050 Mountain streams w/large boulders
13.2	90	5 T	otal			

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Summary for Subcatchment 29S: WS 4A

Runoff = 17.38 cfs @ 12.05 hrs, Volume= 1.094 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 2-Year Rainfall=2.40"

	Area	(ac)	CN	Desc	ription		
_		000	98			ing imperv	ious, HSG A
		000	98				ious, HSG C
		000	98				ious, HSG D
		000	98				treated as offset, HSG D
		000	30				azed, HSG A
		000	71				azed, HSG C
		000	78				azed, HSG D
		000	30			s, Good, H	
		622	70			s, Good, H	
	10.	916	77			s, Good, H	
	0.	000	70			ds, Good, I	
	1.	944	77	Prop	osed Woo	ds, Good, I	HSG D
	0.	000	98	Prop	osed impe	rvious to b	e treated, HSG C
	0.	000	98				e treated, HSG D
	0.	000	98	Untre	eated prop	osed impe	rvious, HSG C
		000	98	Untre	eated prop	osed impe	rvious, HSG D
		000	71	Prop	osed deve	loped mea	dow, non-grazed, HSG C
		218	78				dow, non-grazed, HSG D
		000	71				dow to be treated, HSG C
		000	78				dow to be treated, HSG D
		000	71			dow, ski tra	
		977	78			dow, ski tra	·
		000	71			dow, ski lift	
_	0.	000	78	Prop	osed mea	dow, ski lift	; HSG D
		677	76		hted Aver		
	20.	677		100.0	00% Pervi	ous Area	
	Тс	Length		Slope	Velocity	Capacity	Description
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	6.7	100	0.	1900	0.25		Sheet Flow,
							Grass: Dense n= 0.240 P2= 2.40"
	1.0	180	0.	1900	3.05		Shallow Concentrated Flow,
							Short Grass Pasture Kv= 7.0 fps
	4.4	2,562	2 0.	1550	9.80	58.80	Trap/Vee/Rect Channel Flow,
							Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00'
							n= 0.050 Mountain streams w/large boulders
	12 1	2 842) To	ntal			

12.1 2,842 Total

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Summary for Subcatchment 30S: WS 4B

Runoff = 5.93 cfs @ 12.19 hrs, Volume= 0.537 af, Depth= 0.72"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.657	70	Existing Woods, Good, HSG C
4.078	77	Existing Woods, Good, HSG D
0.184	70	Proposed Woods, Good, HSG C
1.364	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.216	98	Untreated proposed impervious, HSG C
0.393	98	Untreated proposed impervious, HSG D
0.593	71	Proposed developed meadow, non-grazed, HSG C
1.416	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.006	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
8.907	78	Weighted Average
8.298		93.16% Pervious Area
0.609		6.84% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	54	0.1900	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
0.6	105	0.1900	3.05		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
1.0	80	0.2800	1.32		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.4	255	0.1400	11.64	69.85	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.040 Mountain streams
0.4	218	0.1100	10.32	61.91	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.040 Mountain streams
4.4	217	0.1100	0.83		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.5	189	0.0800	0.71		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.0	142	0.2300	1.20		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
24.0	1,260	Total			

Summary for Subcatchment 31S: WS 4C

Runoff = 12.12 cfs @ 12.26 hrs, Volume= 1.307 af, Depth= 0.59"

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Area	(ac)	CN D	esc	ription		
	.000	98 L	ntre	ated exist	ting imperv	rious, HSG A
0.	.000	98 L	Intre	ated exist	ting imperv	rious, HSG C
0.	.000	98 L	Intre	ated exist	ting imperv	rious, HSG D
0.	.000	98 E	xisti	ing imperv	ious to be	treated as offset, HSG D
0.	.000	30 E	xisti	ing meado	ow, non-gra	azed, HSG A
0.	.802	71 E	xisti	ing meado	ow, non-gra	azed, HSG C
2.	.723	78 E	xisti	ing meado	ow, non-gra	azed, HSG D
0.	.000	30 E	xisti	ing Woods	s, Good, H	SG A
3.	.606	70 E	xisti	ing Woods	s, Good, H	SG C
5.	.804	77 E	xisti	ing Woods	s, Good, H	SG D
1.	.389	70 F	ropo	osed Woo	ds, Good,	HSG C
2.	.634	77 P	ropo	osed Woo	ds, Good,	HSG D
0.	.000	98 F	ropo	osed impe	ervious to b	e treated, HSG C
0.	.000	98 F	ropo	osed impe	ervious to b	e treated, HSG D
0.	.213	98 L	Intre	ated prop	osed impe	rvious, HSG C
0.	.215	98 L	Intre	ated prop	osed impe	rvious, HSG D
0.	.336	71 P	ropo	osed deve	eloped mea	ndow, non-grazed, HSG C
0.	.248	78 F	ropo	osed deve	eloped mea	ndow, non-grazed, HSG D
0.	.000	71 P	ropo	osed deve	loped mea	ndow to be treated, HSG C
0.	.000	78 F	ropo	osed deve	eloped mea	ndow to be treated, HSG D
3.	.924	71 P	ropo	osed mea	dow, ski tra	ail, HSG C
	.557		ropo	osed mea	dow, ski tra	ail, HSG D
0.	.000	71 P	ropo	osed mea	dow, ski lif	t, HSG C
0	.000	78 F	ropo	osed mea	dow, ski lif	t, HSG D
26.	.451	75 V	Veig	hted Aver	age	
	.023	9	8.38	3% Pervio	ue Araa	
^					us Alca	
U.	.428	1		% Impervi		
			.62%	% Impervi	ous Area	
Тс	Length	n Slo	.62% pe	% Impervious Velocity	ous Area Capacity	Description
Tc (min)	Length	n Slo) (ft/	.62% pe ft)	% Impervious Velocity (ft/sec)	ous Area	·
Тс	Length	n Slo) (ft/	.62% pe ft)	% Impervious Velocity	ous Area Capacity	Sheet Flow,
Tc (min) 8.7	Length (feet	Slo (ft/ 0.10	.62% pe (ft) 00	Velocity (ft/sec) 0.19	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40"
Tc (min)	Length	Slo (ft/ 0.10	.62% pe (ft) 00	% Impervious Velocity (ft/sec)	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow,
Tc (min) 8.7 0.3	Length (feet) 100	Slo) (ft/) 0.10	.62% pe ft) 00	Velocity (ft/sec) 0.19 2.21	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
Tc (min) 8.7	Length (feet	Slo) (ft/) 0.10	.62% pe ft) 00	Velocity (ft/sec) 0.19	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,
Tc (min) 8.7 0.3 3.0	Length (feet) 100 37 270	Slo (ft/ 0.10 0.10 0.37	.62% pe ft) 00 00	Velocity (ft/sec) 0.19 2.21 1.52	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
Tc (min) 8.7 0.3	Length (feet) 100	Slo (ft/ 0.10 0.10 0.37	.62% pe ft) 00 00	Velocity (ft/sec) 0.19 2.21	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
Tc (min) 8.7 0.3 3.0 1.8	Length (feet) 100 37 270 431	Slo (ft/ 0 0.10 7 0.10 0 0.37 0.32	.62% pe ft) 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
Tc (min) 8.7 0.3 3.0	Length (feet) 100 37 270	Slo (ft/ 0 0.10 7 0.10 0 0.37 0.32	.62% pe ft) 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,
Tc (min) 8.7 0.3 3.0 1.8 1.7	Length (feet) 100 37 270 431 157	Slo (ft/ 0 0.10 0 0.37 0 0.32 0 0.38	.62% pe ft) 00 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
Tc (min) 8.7 0.3 3.0 1.8	Length (feet) 100 37 270 431 157	Slo (ft/ 0 0.10 7 0.10 0 0.37 0.32	.62% pe ft) 00 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6	Length (feet) 100 37 270 431 157	Slo (ft/ 0.10 0.10 0.37 0.32 0.38 2.0.21	.62% pe ft) 000 000 000 000	% Impervious Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
Tc (min) 8.7 0.3 3.0 1.8 1.7	Length (feet) 100 37 270 431 157	Slo (ft/ 0.10 0.10 0.37 0.32 0.38 2.0.21	.62% pe ft) 000 000 000 000	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5	Length (feet) 100 37 270 431 157 702 262	Slo (ft/ 0 0.10 0 0.37 0.32 7 0.38 2 0.21 2 0.25	.62% pe fft) 000 000 000 000	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25	ous Area Capacity (cfs)	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6	Length (feet) 100 37 270 431 157	Slo (ft/ 0 0.10 7 0.10 9 0.37 0.32 7 0.38 2 0.21 2 0.25	.62% pe fft) 000 000 000 000	% Impervious Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5	Length (feet) 100 37 270 431 157 702 262	Slo (ft/ 0 0.10 0 0.37 0.32 7 0.38 2 0.21 2 0.25	.62% pe fft) 000 000 000 000	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25	ous Area Capacity (cfs)	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5 1.7	Length (feet) 100 37 270 431 157 702 262 740	1 Slo (ft/ 0 0.10 7 0.10 9 0.37 9 0.32 7 0.38 2 0.21 9 0.25 9 0.22	.62% pe ff) 00 00 00 00 00 00 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25 7.36	ous Area Capacity (cfs)	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5	Length (feet) 100 37 270 431 157 702 262	1 Slo (ft/ 0 0.10 7 0.10 9 0.37 9 0.32 7 0.38 2 0.21 2 0.25 9 0.22	.62% pe ff) 00 00 00 00 00 00 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25	ous Area Capacity (cfs)	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch Shallow Concentrated Flow,
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5 1.7	Length (feet) 100 37 270 431 157 702 262 740	Slo (ft/ 0 0.10 0 0.37 0.32 7 0.38 2 0.21 2 0.25 0 0.22	.62% pe (ft) 00 00 00 00 00 00 00 00 00 00 00 00	% Impervious Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25 7.36 1.17	cus Area Capacity (cfs) 22.07	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5 1.7	Length (feet) 100 37 270 431 157 702 262 740	Slo (ft/ 0 0.10 0 0.37 0.32 7 0.38 2 0.21 2 0.25 0 0.22	.62% pe (ft) 00 00 00 00 00 00 00 00 00 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25 7.36	ous Area Capacity (cfs)	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps

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n= 0.050 Mountain streams w/large boulders

28.4 3,294 Total

Summary for Subcatchment 32S: WS 5

Runoff = 1.34 cfs @ 12.23 hrs, Volume= 0.133 af, Depth= 0.68"

_	Area (ac)	CN	Description
	0.000	98	Untreated existing impervious, HSG A
	0.000	98	Untreated existing impervious, HSG C
	0.012	98	Untreated existing impervious, HSG D
	0.000	98	Existing impervious to be treated as offset, HSG D
	0.000	30	Existing meadow, non-grazed, HSG A
	0.000	71	Existing meadow, non-grazed, HSG C
	0.000	78	Existing meadow, non-grazed, HSG D
	0.000	30	Existing Woods, Good, HSG A
	0.000	70	Existing Woods, Good, HSG C
	1.790	77	Existing Woods, Good, HSG D
	0.000	70	Proposed Woods, Good, HSG C
	0.133	77	Proposed Woods, Good, HSG D
	0.000	98	Proposed impervious to be treated, HSG C
	0.000	98	Proposed impervious to be treated, HSG D
	0.000	98	Untreated proposed impervious, HSG C
	0.000	98	Untreated proposed impervious, HSG D
	0.000	71	Proposed developed meadow, non-grazed, HSG C
	0.000	78	Proposed developed meadow, non-grazed, HSG D
	0.000	71	Proposed developed meadow to be treated, HSG C
	0.000	78	Proposed developed meadow to be treated, HSG D
	0.000	71	Proposed meadow, ski trail, HSG C
	0.420	78	Proposed meadow, ski trail, HSG D
	0.000	71	Proposed meadow, ski lift, HSG C
_	0.000	78	Proposed meadow, ski lift, HSG D
	2.355	77	Weighted Average
	2.343		99.49% Pervious Area
	0.012		0.51% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	10.9	38	0.0900	0.06		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	2.0	89	0.0900	0.75		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.3	240	0.1400	0.94		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	8.1	345	0.0800	0.71		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	1.4	87	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.1	88	0.1400	13.49	40.48	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_						n= 0.030 Stream, clean & straight
	26.8	887	Total			

Summary for Subcatchment 33S: WS 6

Runoff = 5.08 cfs @ 12.09 hrs, Volume= 0.354 af, Depth= 0.68"

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Area	(ac)	CN De	scription		
0.	.000	98 Un	treated exis	ting imperv	rious, HSG A
	.000				rious, HSG C
0.	.041				rious, HSG D
	.000				treated as offset, HSG D
	.000				azed, HSG A
	.000				azed, HSG C
	.000				azed, HSG D
0.	.000		sting Wood		
	.000		sting Wood		
	.020		sting Wood		
	.000		posed Woo		
	.108		posed Woo		
	.000				e treated, HSG C
	.000				e treated, HSG D
	.000				rvious, HSG C
	.000				rvious, HSG D
	.000				adow, non-grazed, HSG C
	.595				adow, non-grazed, HSG D
	.000				adow to be treated, HSG C
	.000				adow to be treated, HSG D
	.000		posed mea		
	.493		posed mea		
	.000		posed mea		
	.000		posed mea		
-	.257		ighted Ave		, · · · · · ·
	.216		34% Pervio	•	
	.041		6% Impervi		
•		0.0	0,0 1111,001.11	040704	
Tc	Length	n Slope	e Velocity	Capacity	Description
(min)	(feet	•		(cfs)	
8.3	100			, ,	Sheet Flow,
0.0	100	0.1100	0.20		Grass: Dense n= 0.240 P2= 2.40"
0.7	93	0.1100	2.32		Shallow Concentrated Flow,
0.1		0.1100	2.02		Short Grass Pasture Kv= 7.0 fps
1.3	201	0.1400	2.62		Shallow Concentrated Flow,
1.0	20	0.1400	2.02		Short Grass Pasture Kv= 7.0 fps
0.5	261	0.1500	8.96	35.82	
0.0	20	0.1000	0.00	00.02	Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
					n= 0.050
0.5	183	0.0700	6.12	24.47	Trap/Vee/Rect Channel Flow,
0.0	102	. 0.0700	0.12	27.71	Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
					n= 0.050
0.8	241	0.0500	5.17	20.68	Trap/Vee/Rect Channel Flow,
0.0	24	0.0000	5.17	20.00	Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
					· · · · · · · · · · · · · · · · · · ·
2.8	110	0.0800	0.71		n= 0.050 Mountain streams w/large boulders
2.0	119	0.0000	0.71		Shallow Concentrated Flow,
0.0	7.	0.0600	5 20	15.00	Forest w/Heavy Litter Kv= 2.5 fps
0.2	71	0.0600	5.30	15.90	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.050
15.1	1,268	3 Total			n= 0.050

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Summary for Subcatchment 34S: WS 6A

Runoff = 8.33 cfs @ 12.13 hrs, Volume= 0.670 af, Depth= 0.63"

0.000 98 Untreated existing impervious, HSG A 0.000 98 Untreated existing impervious, HSG C 0.000 98 Untreated existing impervious, HSG D 0.000 98 Existing impervious to be treated as offset, HSG D 0.000 30 Existing meadow, non-grazed, HSG A 0.000 71 Existing meadow, non-grazed, HSG C 0.000 78 Existing meadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG A 1.611 70 Existing Woods, Good, HSG C 4.153 77 Existing Woods, Good, HSG D 0.560 70 Proposed Woods, Good, HSG C 0.902 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D 0.000 98 Untreated proposed impervious, HSG C
0.000 98 Untreated existing impervious, HSG C 0.000 98 Untreated existing impervious, HSG D 0.000 98 Existing impervious to be treated as offset, HSG D 0.000 30 Existing meadow, non-grazed, HSG A 0.000 71 Existing meadow, non-grazed, HSG C 0.000 78 Existing meadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG A 1.611 70 Existing Woods, Good, HSG C 4.153 77 Existing Woods, Good, HSG D 0.560 70 Proposed Woods, Good, HSG C 0.902 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D
0.000 98 Untreated existing impervious, HSG D 0.000 98 Existing impervious to be treated as offset, HSG D 0.000 30 Existing meadow, non-grazed, HSG A 0.000 71 Existing meadow, non-grazed, HSG C 0.000 78 Existing meadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG A 1.611 70 Existing Woods, Good, HSG C 4.153 77 Existing Woods, Good, HSG D 0.560 70 Proposed Woods, Good, HSG C 0.902 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D
0.000 98 Existing impervious to be treated as offset, HSG D 0.000 30 Existing meadow, non-grazed, HSG A 0.000 71 Existing meadow, non-grazed, HSG C 0.000 78 Existing meadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG A 1.611 70 Existing Woods, Good, HSG C 4.153 77 Existing Woods, Good, HSG D 0.560 70 Proposed Woods, Good, HSG C 0.902 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D
0.000 30 Existing meadow, non-grazed, HSG A 0.000 71 Existing meadow, non-grazed, HSG C 0.000 78 Existing meadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG A 1.611 70 Existing Woods, Good, HSG C 4.153 77 Existing Woods, Good, HSG D 0.560 70 Proposed Woods, Good, HSG C 0.902 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D
0.000 71 Existing meadow, non-grazed, HSG C 0.000 78 Existing meadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG A 1.611 70 Existing Woods, Good, HSG C 4.153 77 Existing Woods, Good, HSG D 0.560 70 Proposed Woods, Good, HSG C 0.902 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D
0.000 78 Existing meadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG A 1.611 70 Existing Woods, Good, HSG C 4.153 77 Existing Woods, Good, HSG D 0.560 70 Proposed Woods, Good, HSG C 0.902 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D
 0.000 30 Existing Woods, Good, HSG A 1.611 70 Existing Woods, Good, HSG C 4.153 77 Existing Woods, Good, HSG D 0.560 70 Proposed Woods, Good, HSG C 0.902 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D
 1.611 70 Existing Woods, Good, HSG C 4.153 77 Existing Woods, Good, HSG D 0.560 70 Proposed Woods, Good, HSG C 0.902 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D
 4.153 77 Existing Woods, Good, HSG D 0.560 70 Proposed Woods, Good, HSG C 0.902 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D
 0.560 70 Proposed Woods, Good, HSG C 0.902 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D
 0.902 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D
0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D
0.000 98 Proposed impervious to be treated, HSG D
0.406 98 Untreated proposed impervious, HSG D
0.000 71 Proposed developed meadow, non-grazed, HSG C
0.543 78 Proposed developed meadow, non-grazed, HSG D
0.000 71 Proposed developed meadow to be treated, HSG C
0.000 78 Proposed developed meadow to be treated, HSG D
1.571 71 Proposed meadow, ski trail, HSG C
2.925 78 Proposed meadow, ski trail, HSG D
0.000 71 Proposed meadow, ski lift, HSG C
0.000 78 Proposed meadow, ski lift, HSG D
12.671 76 Weighted Average
12.265 96.80% Pervious Area
0.406 3.20% Impervious Area
0.400 0.2070 Imporvious 7 (rod
Tc Length Slope Velocity Capacity Description
(min) (feet) (ft/ft) (ft/sec) (cfs)
10.8 53 0.1800 0.08 Sheet Flow,
Woods: Dense underbrush n= 0.800 P2= 2.40"
5.0 440 0.3400 1.46 Shallow Concentrated Flow,
Forest w/Heavy Litter Kv= 2.5 fps
0.3 142 0.0800 7.46 22.39 Trap/Vee/Rect Channel Flow,
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
n= 0.041 Riprap, 2-inch
0.6 62 0.5500 1.85 Shallow Concentrated Flow,
Forest w/Heavy Litter Kv= 2.5 fps
2.1 1,603 0.1370 12.71 152.58 Trap/Vee/Rect Channel Flow,
Bot.W=4.00' D=2.00' Z= 1.0 '/' Top.W=8.00'
n= 0.050 Mountain streams w/large boulders
18.8 2,300 Total

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Summary for Subcatchment 35S: WS 6B

Runoff = 1.77 cfs @ 12.12 hrs, Volume= 0.132 af, Depth= 0.87"

Area	(ac)	CN	Desc	ription									
0	.000	98	Untre	Untreated existing impervious, HSG A									
0	.000	98	Untre	Jntreated existing impervious, HSG C									
0	.000	98	Untre	Jntreated existing impervious, HSG D									
0	.000	98		Existing impervious to be treated as offset, HSG D									
0	.000	30	Exist	Existing meadow, non-grazed, HSG A									
0	.000	71	Exist	ing meado	ow, non-gra	azed, HSG C							
0	.000	78	Exist	ing meado	ow, non-gra	azed, HSG D							
0	.000	30	Exist	ing Woods	s, Good, H	SG A							
	.000	70	Exist	ing Woods	s, Good, H	SG C							
0	.967	77			s, Good, H								
	.000	70			ds, Good,								
	.116	77			ds, Good,								
	.000	98				e treated, HSG C							
	.000	98				e treated, HSG D							
	.000	98				rvious, HSG C							
	.298	98				rvious, HSG D							
	.000	71				dow, non-grazed, HSG C							
	.434	78				dow, non-grazed, HSG D							
	.000	71				dow to be treated, HSG C							
	.000	78				dow to be treated, HSG D							
	.000	71			dow, ski tra								
	.000	78			dow, ski tra								
	.000	71			dow, ski lift								
	.000	78			dow, ski lift	I, HSG D							
	.815	81		hted Aver									
	.517			8% Pervio									
U	.298		16.4	2% imperv	ious Area								
To	Longth		lono	Valacity	Canacity	Description							
Tc (min)	Length (feet		lope ft/ft)	Velocity	Capacity (cfs)	Description							
(min)				(ft/sec)	(CIS)	Oh ast Flour							
10.7	62	2 0.2	2500	0.10		Sheet Flow,							
4.0	0.0		0500	4.05		Woods: Dense underbrush n= 0.800 P2= 2.40"							
1.2	93	0.2	2500	1.25		Shallow Concentrated Flow,							
1.7	10/	1 0 5	5500	1.85		Forest w/Heavy Litter Kv= 2.5 fps							
1.7	194	i 0.5	5500	1.85		Shallow Concentrated Flow,							
1.2	97	7 0 0	2700	1.30		Forest w/Heavy Litter Kv= 2.5 fps							
1.2	91	0.2	2700	1.30		Shallow Concentrated Flow,							
3.8	234	1 0 1	700	1.03		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,							
3.0	232	r U. I	700	1.03		Forest w/Heavy Litter Kv= 2.5 fps							
18.6	680) To	tal			1 Olest Willeavy Litter 11v- 2.3 Ips							
10.0	000	, 10	ıaı										

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Summary for Subcatchment 36S: WS 6C

Runoff = 1.54 cfs @ 12.21 hrs, Volume= 0.145 af, Depth= 0.77"

Area	(ac)	CN De	scription									
0	.000	98 Ur	treated exis	sting imperv	vious, HSG A							
0	.000	98 Ur	Jntreated existing impervious, HSG C									
0	.000	98 Ur	Intreated existing impervious, HSG D									
0	.000		Existing impervious to be treated as offset, HSG D									
0	.000	30 Ex	isting mead	low, non-gra	azed, HSG A							
0	.000	71 Ex	isting mead	low, non-gra	azed, HSG C							
0	.000				azed, HSG D							
0	.000	30 Ex	isting Wood	ls, Good, H	SG A							
0	.000	70 Ex	isting Wood	ds, Good, H	SG C							
0	.784	77 Ex	isting Wood	ls, Good, H	SG D							
0	.000	70 Pr	oposed Wo	ods, Good,	HSG C							
0	.244	77 Pr	oposed Wo	ods, Good,	HSG D							
0	.000				pe treated, HSG C							
	.000				pe treated, HSG D							
	.000				ervious, HSG C							
	.214				ervious, HSG D							
	.000				adow, non-grazed, HSG C							
	.396				adow, non-grazed, HSG D							
	.000				adow to be treated, HSG C							
	.000				adow to be treated, HSG D							
	.000		oposed mea									
	.611		oposed mea									
	.000		oposed mea	•								
	.000		oposed mea	•	t, HSG D							
	.249		eighted Ave									
	.035		.48% Pervi									
0	.214	9.	52% Imperv	ious Area								
_		٥.										
Tc	Length				Description							
(min)	(feet)		, , ,	(cfs)								
8.0	100	0.120	0 0.21		Sheet Flow,							
					n= 0.240 P2= 2.40"							
0.6	29	0.120	0 0.87		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
0.2	82	0.150	0 7.25	14.50	Trap/Vee/Rect Channel Flow,							
					Bot.W=2.00' D=1.00' n= 0.050							
7.1	281	0.070	0.66		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
10.0	150	0.010	0 0.25		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
25.9	642	Total										

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Summary for Subcatchment 37S: WS 7

Runoff = 0.83 cfs @ 12.06 hrs, Volume= 0.053 af, Depth= 0.72"

Area	(ac) (CN E)esc	cription						
0	.000	98 L	Intre	eated exis	ting imperv	rious, HSG A				
0	.000	98 L	Intreated existing impervious, HSG C							
0	.056	98 L	Intreated existing impervious, HSG D							
0	.000		existing impervious to be treated as offset, HSG D							
0	.000	30 E	xist	ting mead	ow, non-gra	azed, HSG A				
0	.000	71 E	xist	ting mead	ow, non-gra	azed, HSG C				
0	.000	78 E	xist	ting mead	ow, non-gra	azed, HSG D				
0	.000	30 E	xist	ting Wood	s, Good, H	SG A				
0	.000	70 E	xist	ting Wood	s, Good, H	SG C				
	.774		xist	ting Wood	s, Good, H	SG D				
	.000				ds, Good,					
	.000				ds, Good,					
	.000					e treated, HSG C				
	.000					e treated, HSG D				
	.000					rvious, HSG C				
	.000					rvious, HSG D				
	.000					idow, non-grazed, HSG C				
	.042					dow, non-grazed, HSG D				
	.000					dow to be treated, HSG C				
	.000					dow to be treated, HSG D				
	.000				dow, ski tra					
	.000				dow, ski tra					
	.000				dow, ski lift					
	.000				dow, ski lift	I, HSG D				
	.872			ghted Aver						
	.816			8% Pervio						
Ü	.056	6	.42	% Impervi	ous Area					
т.	المراجع ا	Cla		\/alaaitu	Canacity	Decembrish				
Tc	Length			Velocity	Capacity	Description				
(min)	(feet)			(ft/sec)	(cfs)	OL (E)				
10.7	43	0.12	00	0.07		Sheet Flow,				
4.0	00	0.40	00	0.70		Woods: Dense underbrush n= 0.800 P2= 2.40"				
1.9	92	0.10	UU	0.79		Shallow Concentrated Flow,				
0.0	0.50	0.05	^^	40.00	400.00	Forest w/Heavy Litter Kv= 2.5 fps				
0.3	253	0.05	UU	16.63	166.28	Trap/Vee/Rect Channel Flow,				
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
0.4	420	0.00	00	04.00	240.22	n= 0.022 Earth, clean & straight				
0.1	130	0.08	UU	21.03	210.33	Trap/Vee/Rect Channel Flow,				
						Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'				
40.0		T - 4 -				n= 0.022 Earth, clean & straight				
13.0	518	Tota	I							

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Summary for Subcatchment 38S: WS 7A

Runoff = 6.60 cfs @ 11.93 hrs, Volume= 0.283 af, Depth= 1.16"

Area	(ac) C	N Des	cription								
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A						
0.	.000		Jntreated existing impervious, HSG C								
0.	.000		Intreated existing impervious, HSG D								
0.	099		Existing impervious to be treated as offset, HSG D								
0.	000				azed, HSG A						
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	000				azed, HSG D						
0.	000	30 Exis	ting Wood	s, Good, H	SG A						
0.	.000	70 Exis	ting Wood	s, Good, H	SG C						
0.	331	77 Exis	ting Wood	s, Good, H	SG D						
0.	.000	70 Prop	osed Woo	ds, Good,	HSG C						
0.	.000	77 Prop	osed Woo	ds, Good,	HSG D						
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					dow, non-grazed, HSG C						
					dow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
	0.000 71 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG D										
				dow, ski lift							
				dow, ski lift	I, NOG D						
			ghted Aver								
	751		5% Pervio								
1.	170	40.0	5% imperv	vious Area							
To	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Description						
				(013)	Chaot Flow						
1.4	100	0.0200	1.19		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.40"						
0.2	33	0.0200	2.87								
0.2	33	0.0200	2.01		Shallow Concentrated Flow, Paved Kv= 20.3 fps						
0.1	37	0.4600	4.75		Shallow Concentrated Flow,						
0.1	31	0.4000	4.73		Short Grass Pasture Kv= 7.0 fps						
0.5	86	0.1400	2.62		Shallow Concentrated Flow,						
0.5	00	0.1400	2.02		Short Grass Pasture Kv= 7.0 fps						
0.2	190	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow,						
0.2	100	5.1200	17.54	01.11	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.022						
2.4	116	Total									

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Summary for Subcatchment 39S: WS 7B

Runoff = 1.10 cfs @ 11.98 hrs, Volume= 0.053 af, Depth= 0.72"

Area	(ac) C	N Des	cription									
0	.000	98 Untr	Intreated existing impervious, HSG A									
0.	.000	98 Untr	ntreated existing impervious, HSG C									
0.	.000	98 Untr	Intreated existing impervious, HSG D									
0.	.000	98 Exis	existing impervious to be treated as offset, HSG D									
0.	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A							
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C							
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D							
			ting Wood	s, Good, H	SG A							
0.	.000			s, Good, H								
				s, Good, H								
0.			osed Woo	ods, Good,	HSG C							
0.				ods, Good,								
0.	.000	98 Prop	osed impe	ervious to b	e treated, HSG C							
					pe treated, HSG D							
					rvious, HSG C							
					rvious, HSG D							
					adow, non-grazed, HSG C							
					adow, non-grazed, HSG D							
					adow to be treated, HSG C							
			Proposed developed meadow to be treated, HSG D									
			Proposed meadow, ski trail, HSG C									
				dow, ski tra								
				dow, ski lif								
				dow, ski lif	t, HSG D							
			ghted Ave									
0	.886	100	.00% Perv	ious Area								
_		٥.										
Tc	Length		Velocity	Capacity	Description							
(min)	(feet)		(ft/sec)	(cfs)								
4.1	51	0.1700	0.21		Sheet Flow,							
					Grass: Dense n= 0.240 P2= 2.40"							
0.3	57	0.1700	2.89		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
1.0	146	0.1100	2.32		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
0.0	13	0.4600	4.75		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
0.5	67	0.1200	2.42		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
5.9	334	Total										

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Summary for Subcatchment 40S: WS 7C

Runoff = 4.28 cfs @ 12.15 hrs, Volume= 0.358 af, Depth= 0.63"

Area	(ac) C	N Desc	cription								
0.	.000	98 Untr	eated exis	ting imperv	ious, HSG A						
			Intreated existing impervious, HSG C								
			Intreated existing impervious, HSG D								
			existing impervious to be treated as offset, HSG D								
			Existing meadow, non-grazed, HSG A								
			•		azed, HSG C						
					azed, HSG D						
				s, Good, H							
				s, Good, H							
				s, Good, H							
			•	ds, Good, III							
				ds, Good, ds, Good,							
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					idow, non-grazed, HSG C						
					idow, non-grazed, HSG D						
					idow to be treated, HSG C						
				•	idow to be treated, HSG D						
				dow, ski tra	·						
				dow, ski tra							
				dow, ski lift							
				dow, ski lift							
			hted Aver		, -						
	355		1% Pervio	•							
	419		% Impervi								
0.		00	, opo	040704							
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	'						
10.8	65	0.2700	0.10	,	Sheet Flow,						
10.0	00	0.2.00	00		Woods: Dense underbrush n= 0.800 P2= 2.40"						
7.4	508	0.2100	1.15		Shallow Concentrated Flow,						
		0.2.00			Forest w/Heavy Litter Kv= 2.5 fps						
0.4	107	0.0400	4.58	54.96	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00'						
					n= 0.069 Riprap, 6-inch						
0.5	407	0.1600	12.66	142.37	Trap/Vee/Rect Channel Flow,						
					Bot.W=6.00' D=1.50' Z= 1.0 '/' Top.W=9.00'						
					n= 0.050 Mountain streams w/large boulders						
1.0	57	0.1400	0.94		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
20.1	1,144	Total			·						

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Summary for Subcatchment 41S: WS 7D

Runoff = 1.73 cfs @ 12.03 hrs, Volume= 0.099 af, Depth= 1.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 2-Year Rainfall=2.40"

Area	(ac) C	N Des	cription								
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A						
0.	000	98 Untr	Intreated existing impervious, HSG C								
0.	000	98 Untr	Intreated existing impervious, HSG D								
0.			ting imperv	ious to be	treated as offset, HSG D						
0.	000	30 Exis	ting meado	ow, non-gra	azed, HSG A						
0.	000	71 Exis	ting meado	ow, non-gra	azed, HSG C						
0.			ting meado	ow, non-gra	azed, HSG D						
0.	000	30 Exis	ting Woods	s, Good, H	SG A						
0.	000	70 Exis	ting Woods	s, Good, H	SG C						
0.	030	77 Exis	ting Woods	s, Good, H	SG D						
0.	000	70 Prop	osed Woo	ds, Good,	HSG C						
0.	000	77 Prop	osed Woo	ds, Good,	HSG D						
0.	000	98 Prop	osed impe	ervious to b	e treated, HSG C						
0.	405	98 Prop	osed impe	ervious to b	e treated, HSG D						
0.	000	98 Untr	eated prop	osed impe	rvious, HSG C						
0.	000	98 Untr	Untreated proposed impervious, HSG D								
0.	000	71 Prop	Proposed developed meadow, non-grazed, HSG C								
					idow, non-grazed, HSG D						
0.					idow to be treated, HSG C						
					dow to be treated, HSG D						
0.			osed mea	dow, ski tra	ail, HSG C						
0.			osed mea	dow, ski tra	ail, HSG D						
0.	000	71 Prop	osed mea	dow, ski lift	t, HSG C						
0.	000	78 Prop	osed mea	dow, ski lift	t, HSG D						
1.	084	35 Wei	ghted Aver	age							
0.	679	62.6	4% Pervio	us Area							
0.	405	37.3	6% Imperv	ious Area							
_											
Tc	Length	Slope	Velocity	Capacity	Description						
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)							
10.8	57	0.2100	0.09		Sheet Flow,						
					Woods: Dense underbrush n= 0.800 P2= 2.40"						
0.5	99	0.2100	3.21		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
11.3	156	Total									

Summary for Subcatchment 42S: WS 7E

Runoff = 2.51 cfs @ 12.09 hrs, Volume= 0.173 af, Depth= 0.82"

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Area	(ac) (CN De	scription									
0.	.000	98 Un	Untreated existing impervious, HSG A									
0.	.000	98 Un	Untreated existing impervious, HSG C									
0.	.000		Jntreated existing impervious, HSG D									
0.	.000		Existing impervious to be treated as offset, HSG D									
0.	.000				azed, HSG A							
					azed, HSG C							
0.	.000	78 Ex	isting mead	ow, non-gra	azed, HSG D							
0.	.000	30 Ex	isting Wood	s, Good, H	SG A							
0.	.000	70 Ex	isting Wood	s, Good, H	SG C							
1.	.342	77 Ex	isting Wood	s, Good, H	SG D							
0.	.000	70 Pr	posed Woo	ods, Good,	HSG C							
0.	.000	77 Pr	posed Woo	ods, Good,	HSG D							
0.	.000	98 Pr	posed imp	ervious to b	pe treated, HSG C							
0.	.000	98 Pr	posed imp	ervious to b	e treated, HSG D							
0.	.000				rvious, HSG C							
0.	.310	98 Un	treated prop	oosed impe	rvious, HSG D							
					adow, non-grazed, HSG C							
					adow, non-grazed, HSG D							
					adow to be treated, HSG C							
					adow to be treated, HSG D							
			oposed mea									
			posed mea									
			posed mea									
			posed mea		t, HSG D							
			eighted Ave									
	.221		75% Pervio									
0.	.310	12	.25% Imper	vious Area								
_				_								
Tc	Length			Capacity	Description							
(min)	(feet)			(cfs)								
10.7	63	0.260	0.10		Sheet Flow,							
					Woods: Dense underbrush n= 0.800 P2= 2.40"							
0.9	70	0.260	1.27		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
8.0	85	0.470	1.71		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
1.7	179	0.470) 1.71		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
1.7	119	0.220	1.17		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
15.8	516	Total										

Summary for Subcatchment 43S: WS 7F

Runoff = 5.51 cfs @ 12.06 hrs, Volume= 0.341 af, Depth= 0.87"

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Area	(ac) C	N Des	cription								
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A						
			ntreated existing impervious, HSG C								
0.	000		ntreated existing impervious, HSG D								
0.	000				treated as offset, HSG D						
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A						
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0.	000	30 Exis	ting Wood	s, Good, H	SG A						
0.	000	70 Exis	ting Wood	s, Good, H	SG C						
2.	397	77 Exis	ting Wood	s, Good, H	SG D						
0.	000	70 Prop	osed Woo	ds, Good,	HSG C						
				ds, Good,							
					e treated, HSG C						
					oe treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lif							
				dow, ski lif	t, HSG D						
			ghted Avei								
	977		0% Pervio								
0.	713	15.2	0% Imper	vious Area							
-		01			B						
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
10.7	73	0.3500	0.11		Sheet Flow,						
4 -	4.4-	0.0500	4 40		Woods: Dense underbrush n= 0.800 P2= 2.40"						
1.7	147	0.3500	1.48		Shallow Concentrated Flow,						
0.4	000	0.0400	40.55	400.00	Forest w/Heavy Litter Kv= 2.5 fps						
0.4	286	0.2400	12.55	100.38	Trap/Vee/Rect Channel Flow,						
0.0	470	0.0000	4445	407.00	Bot.W=8.00' D=1.00' n= 0.050						
0.2	170	0.2900	14.15	127.33	Trap/Vee/Rect Channel Flow,						
					Bot.W=8.00' D=1.00' Z= 1.0 '/' Top.W=10.00'						
40.0	070	T-4-1			n= 0.050						
13.0	676	Total									

Summary for Subcatchment 44S: WS 7G

Runoff = 2.87 cfs @ 12.21 hrs, Volume= 0.264 af, Depth= 0.87"

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Area ((ac) (ON De	scription								
0.0	000	98 Ur	treated exis	ting imperv	rious, HSG A						
0.0	000		ntreated existing impervious, HSG C								
0.0	000		ntreated existing impervious, HSG D								
0.0			xisting impervious to be treated as offset, HSG D								
0.0			xisting meadow, non-grazed, HSG A								
					azed, HSG C						
					azed, HSG D						
			isting Wood								
			isting Wood								
			isting Wood								
			posed Woo								
			posed Woo								
			•		pe treated, HSG C						
					be treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
			oposed deve oposed mea								
		78 Proposed meadow, ski trail, HSG D 71 Proposed meadow, ski lift, HSG C									
			Proposed meadow, ski lift, HSG C Proposed meadow, ski lift, HSG D								
					I, 1130 D						
	081 081		eighted Aver .85% Pervio								
0.3	550	13	.15% Imper	nous Area							
Tc	Length	Slop	e Velocity	Capacity	Description						
(min)	(feet)	(ft/ft		(cfs)	Description						
7.4	100			(010)	Sheet Flow,						
7.4	100	0.150	0.23		·						
1.2	75	0.450	0.07		Grass: Dense n= 0.240 P2= 2.40"						
1.3	75	0.150	0.97		Shallow Concentrated Flow,						
0.0	20	0.500	177		Forest w/Heavy Litter Kv= 2.5 fps						
0.3	28	0.500) 1.77		Shallow Concentrated Flow,						
4.4	404	0.400	0.70		Forest w/Heavy Litter Kv= 2.5 fps						
4.1	194	0.100	0.79		Shallow Concentrated Flow,						
4.0	404	0.070			Forest w/Heavy Litter Kv= 2.5 fps						
4.6	181	0.070	0.66		Shallow Concentrated Flow,						
2.2		0.050			Forest w/Heavy Litter Kv= 2.5 fps						
8.2	276	0.050	0.56		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
0.2	53	0.040	4.33	12.98	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.050 Mountain streams w/large boulders						
26.1	907	Total									

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Summary for Subcatchment 45S: WS 7H

Runoff = 2.29 cfs @ 12.00 hrs, Volume= 0.122 af, Depth= 0.59"

Area	(ac) C	N Des	cription									
0.	.000	98 Untr	Jntreated existing impervious, HSG A									
0.	.000		Jntreated existing impervious, HSG C									
0.			Jntreated existing impervious, HSG D									
0.			Existing impervious to be treated as offset, HSG D									
0.			Existing meadow, non-grazed, HSG A									
0.			ting mead	ow, non-gra	azed, HSG C							
0.	.000				azed, HSG D							
0.	.000			s, Good, H								
0.	.619	70 Exis	ting Wood	s, Good, H	SG C							
0.	.094	77 Exis	ting Wood	s, Good, H	SG D							
0.	.374	70 Prop	osed Woo	ds, Good,	HSG C							
0.	.101	77 Prop	osed Woo	ds, Good,	HSG D							
0.	.000	98 Prop	osed impe	ervious to b	e treated, HSG C							
0.	.000	98 Prop	osed impe	ervious to b	e treated, HSG D							
0.	.323	98 Untr	eated prop	osed impe	rvious, HSG C							
0.	.013	98 Untr	eated prop	osed impe	rvious, HSG D							
0.	.897	71 Prop	osed deve	eloped mea	idow, non-grazed, HSG C							
0.	.045	78 Prop	osed deve	eloped mea	idow, non-grazed, HSG D							
				•	dow to be treated, HSG C							
			Proposed developed meadow to be treated, HSG D									
			Proposed meadow, ski trail, HSG C									
			Proposed meadow, ski trail, HSG D									
			Proposed meadow, ski lift, HSG C									
				dow, ski lif	t, HSG D							
		•	ghted Aver	•								
	.132		9% Pervio									
0.	.336	13.6	1% Imper	vious Area								
Τ.	141.	01	V/-1	0	December 1							
Tc	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)								
0.9	100	0.0600	1.85		Sheet Flow,							
					n= 0.011 P2= 2.40"							
0.5	18	0.0600	0.61		Shallow Concentrated Flow,							
0.0	0.4	0.4000	4.70		Forest w/Heavy Litter Kv= 2.5 fps							
0.3	31	0.4800	1.73		Shallow Concentrated Flow,							
0.0	400	0.4000	4.00		Forest w/Heavy Litter Kv= 2.5 fps							
3.3	196	0.1600	1.00		Shallow Concentrated Flow,							
0.0	450	0.4000	4.00		Forest w/Heavy Litter Kv= 2.5 fps							
2.6	158	0.1600	1.00		Shallow Concentrated Flow,							
0.4	E.C.	0 0000	G 40	10.40	Forest w/Heavy Litter Kv= 2.5 fps							
0.1	56	0.0900	6.49	19.48	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
					n= 0.050							
					11- 0.000							

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7.7 559 Total

Summary for Subcatchment 46S: WS 8

Runoff = 0.43 cfs @ 12.04 hrs, Volume= 0.025 af, Depth= 0.87"

Area	(ac) C	N Des	cription								
0.	000	98 Untr	Jntreated existing impervious, HSG A								
0.	000		Intreated existing impervious, HSG C								
0.	066	98 Untr	Intreated existing impervious, HSG D								
0.	000	98 Exis	xisting impervious to be treated as offset, HSG D								
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A						
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0.	000	30 Exis	ting Wood	s, Good, H	SG A						
0.	000	70 Exis	ting Wood	s, Good, H	SG C						
			•	s, Good, H							
				ds, Good,							
				ds, Good,							
					e treated, HSG C						
					oe treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
				•	adow to be treated, HSG C						
					adow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lif							
				dow, ski lif	t, HSG D						
			ghted Aver								
	278		1% Pervio								
0.	066	19.1	9% Imper	/ious Area							
_		01			B						
Tc	Length		Velocity	Capacity	Description						
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)							
10.9	40	0.1000	0.06		Sheet Flow,						
					Woods: Dense underbrush n= 0.800 P2= 2.40"						
0.2	11	0.1000	0.79		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
0.4	276	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
		-			n= 0.022						
11.5	327	Total									

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Summary for Subcatchment 47S: WS 9

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.011 af, Depth= 0.93"

Area	(ac) (CN Des	cription								
0.	000	98 Unt	Jntreated existing impervious, HSG A								
0.	000	98 Unt	Untreated existing impervious, HSG C								
0.	036	98 Unt	Jntreated existing impervious, HSG D								
0.			sting imper	vious to be	treated as offset, HSG D						
0.	000	30 Exis	sting mead	ow, non-gra	azed, HSG A						
					azed, HSG C						
					azed, HSG D						
			sting Wood								
			sting Wood								
			sting Wood								
			posed Woo								
			posed Woo								
					pe treated, HSG C						
					pe treated, HSG D						
					ervious, HSG C						
					ervious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
			posed mea	•	·						
			posed mea								
			posed mea								
			posed mea		t, HSG D						
			ghted Aver								
	112	_	88% Pervio								
0.	036	24.3	32% Imper	/ious Area							
То	Longth	Clana	Valacity	Conneity	Description						
Tc (min)	Length (feet)		Velocity (ft/sec)	Capacity (cfs)	Description						
				(018)	Oh a of Flance						
10.9	38	0.0900	0.06		Sheet Flow,						
0.0	470	0.0000	44.75	44.00	Woods: Dense underbrush n= 0.800 P2= 2.40"						
0.2	173	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
	044	Total			n= 0.022						
11.1	211	Total									

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Summary for Subcatchment 48S: WS 10

Runoff = 1.44 cfs @ 12.00 hrs, Volume= 0.074 af, Depth= 0.72"

Area	(ac)	C١	N Desc	cription									
0	.000	98	3 Untr	Jntreated existing impervious, HSG A									
0	.000	98		Jntreated existing impervious, HSG C									
0	.000	98	3 Untr	Jntreated existing impervious, HSG D									
0	.000	98	B Exist	Existing impervious to be treated as offset, HSG D									
0	.000	30) Exist	ting mead	ow, non-gra	azed, HSG A							
0	.000	71	1 Exist	ting mead	ow, non-gra	azed, HSG C							
0	.000	78	B Exist	ting mead	ow, non-gra	azed, HSG D							
0	.000	30) Exist	ting Wood	s, Good, H	SG A							
0	.000	70) Exist	ting Wood	s, Good, H	SG C							
0	.332	77	7 Exist	ting Wood	s, Good, H	SG D							
0	.000	70) Prop	osed Woo	ds, Good,	HSG C							
0	.175	77		osed Woo	ds, Good,	HSG D							
	.000	98				e treated, HSG C							
	.000	98				e treated, HSG D							
	.000	98				rvious, HSG C							
	.000	98				rvious, HSG D							
	.000	71				dow, non-grazed, HSG C							
	.208	78				dow, non-grazed, HSG D							
	.000	7			•	dow to be treated, HSG C							
	.000	78				dow to be treated, HSG D							
	.000	7			dow, ski tra								
	.513	78			dow, ski tra								
	.000	7			dow, ski lift								
	.000	78			dow, ski lift	; HSG D							
	.228	78		ghted Aver									
1	.228		100.	00% Pervi	ous Area								
_			٥.										
Tc			Slope	Velocity	Capacity	Description							
(min)	(fee		(ft/ft)	(ft/sec)	(cfs)								
4.2	(38	0.0900	0.15		Sheet Flow,							
						Grass: Dense n= 0.240 P2= 2.40"							
0.7	8	34	0.0900	2.10		Shallow Concentrated Flow,							
						Short Grass Pasture Kv= 7.0 fps							
1.1	7	79	0.2300	1.20		Shallow Concentrated Flow,							
						Forest w/Heavy Litter Kv= 2.5 fps							
1.6	10	06	0.1900	1.09		Shallow Concentrated Flow,							
						Forest w/Heavy Litter Kv= 2.5 fps							
7.6	30	07	Total										

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Summary for Subcatchment 49S: WS 10A

Runoff = 2.98 cfs @ 12.04 hrs, Volume= 0.176 af, Depth= 0.72"

Area	(ac) C	CN Des	cription									
0.	.000	98 Untr	Untreated existing impervious, HSG A									
0.	.000	98 Untr	Untreated existing impervious, HSG C									
0.	.000	98 Untr	Untreated existing impervious, HSG D									
0.	.000	98 Exis	Existing impervious to be treated as offset, HSG D									
0.	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A							
					azed, HSG C							
			ting mead	ow, non-gra	azed, HSG D							
0.			ting Wood	s, Good, H	SG A							
				s, Good, H								
				s, Good, H								
0.	.003	70 Prop	osed Woo	ds, Good,	HSG C							
0.			osed Woo	ds, Good,	HSG D							
0.	.000	98 Prop	osed impe	ervious to b	e treated, HSG C							
					e treated, HSG D							
			eated prop	osed impe	rvious, HSG C							
			eated prop	osed impe	rvious, HSG D							
					ndow, non-grazed, HSG C							
					ndow, non-grazed, HSG D							
					ndow to be treated, HSG C							
					ndow to be treated, HSG D							
				dow, ski tra								
				dow, ski tra								
0.	.000	71 Prop	osed mea	dow, ski lif	t, HSG C							
0.	.000	78 Prop	osed mea	dow, ski lif	t, HSG D							
2.	.911	78 Wei	ghted Aver	age								
2.	.727	93.6	8% Pervio	us Area								
0.	.184	6.32	% Impervi	ous Area								
Tc	Length		Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)								
6.3	100	0.2200	0.26		Sheet Flow,							
					Grass: Dense n= 0.240 P2= 2.40"							
0.9	122	0.1100	2.32		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
1.0	154	0.1400	2.62		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
2.8	204	0.2400	1.22		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
11.0	580	Total										

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Summary for Subcatchment 50S: WS 10B

Runoff = 3.93 cfs @ 12.11 hrs, Volume= 0.297 af, Depth= 0.59"

Area	(ac) C	CN Des	cription									
0.	000	98 Untr	Untreated existing impervious, HSG A									
0.	000	98 Untr	Jntreated existing impervious, HSG C									
0.	000	98 Untr	Intreated existing impervious, HSG D									
0.	000	98 Exis	Existing impervious to be treated as offset, HSG D									
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A							
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C							
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D							
0.	000	30 Exis	ting Wood	s, Good, H	SG A							
0.	876	70 Exis	ting Wood	s, Good, H	SG C							
0.	149			s, Good, H								
1.	162	70 Prop	osed Woo	ds, Good,	HSG C							
			osed Woo	ds, Good,	HSG D							
					pe treated, HSG C							
					pe treated, HSG D							
					ervious, HSG C							
					ervious, HSG D							
					adow, non-grazed, HSG C							
					adow, non-grazed, HSG D							
					adow to be treated, HSG C							
					adow to be treated, HSG D							
				dow, ski tra								
				dow, ski tra								
				dow, ski lif								
				dow, ski lif	t, HSG D							
			ghted Aver									
	152		7% Pervio									
0.	855	14.2	3% Imperv	∕ious Area								
Tc	Length		Velocity	Capacity	Description							
(min)	(feet)		(ft/sec)	(cfs)								
10.8	56	0.2000	0.09		Sheet Flow,							
					Woods: Dense underbrush n= 0.800 P2= 2.40"							
4.5	355	0.2800	1.32		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
1.2	533	0.1200	7.50	22.49	Trap/Vee/Rect Channel Flow,							
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
					n= 0.050 Mountain streams w/large boulders							
16.5	944	Total										

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Summary for Subcatchment 51S: WS 10C

Runoff = 1.80 cfs @ 12.08 hrs, Volume= 0.119 af, Depth= 0.93"

Area	(ac) (CN De	scription									
0.	000	98 Un	reated exis	ting imperv	rious, HSG A							
0.	000	98 Uni	Untreated existing impervious, HSG C									
0.	000	98 Uni	Untreated existing impervious, HSG D									
0.	000	98 Exi	sting imper	vious to be	treated as offset, HSG D							
0.	000	30 Exi	sting mead	ow, non-gra	azed, HSG A							
0.	000	71 Exi	sting mead	ow, non-gra	azed, HSG C							
0.	000	78 Exi	sting mead	ow, non-gra	azed, HSG D							
0.	000	30 Exi	sting Wood	s, Good, H	SG A							
0.	003	70 Exi	sting Wood	s, Good, H	SG C							
0.	288	77 Exi	sting Wood	s, Good, H	SG D							
0.	000	70 Pro	posed Woo	ods, Good,	HSG C							
0.	000	77 Pro	posed Woo	ods, Good,	HSG D							
0.	196	98 Pro	posed impe	ervious to b	pe treated, HSG C							
	282		posed impe	ervious to b	pe treated, HSG D							
0.	000	98 Un	reated prop	osed impe	ervious, HSG C							
	000				ervious, HSG D							
	000		posed deve	eloped mea	adow, non-grazed, HSG C							
0.	000				adow, non-grazed, HSG D							
	364				adow to be treated, HSG C							
	413				adow to be treated, HSG D							
	000		posed mea									
0.	000		posed mea									
	000		posed mea									
0.	000	78 Pro	posed mea	dow, ski lif	t, HSG D							
1.	546	82 We	ighted Ave	rage								
	068	69.	08% Pervic	us Area								
0.	478	30.	92% Imper	vious Area								
Tc	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)								
10.8	66	0.2800	0.10		Sheet Flow,							
					Woods: Dense underbrush n= 0.800 P2= 2.40"							
1.8	146	0.2800										
					Forest w/Heavy Litter Kv= 2.5 fps							
2.4	162	0.2000	1.12		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
15.0	374	Total										

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Summary for Subcatchment 52S: WS 11

Runoff = 2.38 cfs @ 12.05 hrs, Volume= 0.147 af, Depth= 0.72"

Area	(ac) C	N Des	cription									
0.	.000	98 Untr	Untreated existing impervious, HSG A									
0.	.000		Untreated existing impervious, HSG C									
0.	051		Untreated existing impervious, HSG D									
0.	.000		Existing impervious to be treated as offset, HSG D									
0.	000				azed, HSG A							
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C							
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D							
0.	.000	30 Exis	ting Wood	s, Good, H	SG A							
0.	000	70 Exis	ting Wood	s, Good, H	SG C							
0.	928	77 Exis	ting Wood	s, Good, H	SG D							
0.	000	70 Prop	osed Woo	ds, Good,	HSG C							
0.	259	77 Prop	osed Woo	ds, Good,	HSG D							
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG C							
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG D							
					ervious, HSG C							
					ervious, HSG D							
					adow, non-grazed, HSG C							
					adow, non-grazed, HSG D							
				•	adow to be treated, HSG C							
					adow to be treated, HSG D							
				dow, ski tra								
				dow, ski tra								
				dow, ski lif								
		•		dow, ski lif	t, HSG D							
		•	ghted Aver	•								
	389		1% Pervio									
0.	051	2.09	% Impervi	ous Area								
_		٥.										
Tc	Length	Slope	Velocity	Capacity	Description							
(min)_	(feet)	(ft/ft)	(ft/sec)	(cfs)								
8.7	100	0.1000	0.19		Sheet Flow,							
					Grass: Dense n= 0.240 P2= 2.40"							
1.0	130	0.1000	2.21		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
0.3	29	0.4100	1.60		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
1.6	105	0.1900	1.09		Shallow Concentrated Flow,							
	-	0.4005		4	Forest w/Heavy Litter Kv= 2.5 fps							
0.7	216	0.1000	4.96	14.88	Trap/Vee/Rect Channel Flow,							
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
					n= 0.069 Riprap, 6-inch							
12.3	580	Total										

2.9

440 Total

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Summary for Subcatchment 53S: WS 11A

Runoff = 7.43 cfs @ 11.93 hrs, Volume= 0.330 af, Depth= 1.52"

Area	(ac) C	N Des	cription									
0	.000	98 Untr	eated exis	ting imperv	ious, HSG A							
0.	.000	98 Untr	Untreated existing impervious, HSG C									
0.	.000	98 Untr	Jntreated existing impervious, HSG D									
0.			Existing impervious to be treated as offset, HSG D									
0.			ting meado	ow, non-gra	azed, HSG A							
					azed, HSG C							
					azed, HSG D							
				s, Good, H								
				s, Good, H								
				s, Good, H								
				ds, Good, l								
				ds, Good, l								
					e treated, HSG C							
					e treated, HSG D							
					rvious, HSG C							
					rvious, HSG D							
					dow, non-grazed, HSG C							
					dow, non-grazed, HSG D							
					dow to be treated, HSG C							
					dow to be treated, HSG D							
				dow, ski tra								
				dow, ski tra								
				dow, ski lift								
_				dow, ski lift	., NSG D							
			ghted Aver									
	.906		7% Pervio									
1.	.700	65.2	3% imper	/ious Area								
т.	ما المحمد ا	Clana	\/alaaitu	Composity	Decembring							
Tc	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Oh a st Elass							
0.7	100	0.1000	2.27		Sheet Flow,							
0.0	04	0.4000	4.00		Smooth surfaces n= 0.011 P2= 2.40"							
0.2	21	0.1000	1.66		Sheet Flow,							
0.4	70	0.2700	0.40		Smooth surfaces n= 0.011 P2= 2.40"							
0.1	70	0.3700	9.12		Shallow Concentrated Flow,							
4.0	040	0.0000	0.00	6.65	Grassed Waterway Kv= 15.0 fps							
1.9	249	0.0200	2.22	6.65	Trap/Vee/Rect Channel Flow,							
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
	4.40	T . 4 . 1			n= 0.069 Riprap, 6-inch							

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Summary for Subcatchment 54S: WS 11B

Runoff = 3.98 cfs @ 11.98 hrs, Volume= 0.192 af, Depth= 0.93"

Area	(ac)	CN	Desc	cription									
0.	.000	98	Untre	Untreated existing impervious, HSG A									
0.	.000	98	Untre	Untreated existing impervious, HSG C									
0.	.000	98	Untre	Jntreated existing impervious, HSG D									
0.	.000	98	Exist	Existing impervious to be treated as offset, HSG D									
0.	.000	30	Exist	ting meado	ow, non-gra	azed, HSG A							
0.	.000	71	Exist	ting meado	ow, non-gra	azed, HSG C							
0.	.000	78	Exist	ting meado	ow, non-gra	azed, HSG D							
0.	.000	30	Exist	ing Wood	s, Good, H	SG A							
0.	.000	70	Exist	ing Wood	s, Good, H	SG C							
0.	.000	77	Exist	ing Wood	s, Good, H	SG D							
0.	.000	70	Prop	osed Woo	ds, Good,	HSG C							
0.	.000	77	Prop	osed Woo	ds, Good,	HSG D							
	.772	98				e treated, HSG C							
0.	.167	98	Prop	osed impe	ervious to b	e treated, HSG D							
0.	.000	98				rvious, HSG C							
	.000	98				rvious, HSG D							
	.000	71				dow, non-grazed, HSG C							
	.000	78				dow, non-grazed, HSG D							
	.233	71				dow to be treated, HSG C							
	.316	78				dow to be treated, HSG D							
	.000	71			dow, ski tra								
	.000	78			dow, ski tra								
	.000	71			dow, ski lift								
0.	.000	78	Prop	osed mea	dow, ski lift	t, HSG D							
2.	.488	82	Weig	hted Aver	age								
1.	.549		62.2	6% Pervio	us Area								
0.	.939		37.7	4% Imper	/ious Area								
Tc	Lengt		Slope	Velocity	Capacity	Description							
(min)	(feet	t)	(ft/ft)	(ft/sec)	(cfs)								
4.8	10	0 0.	.4400	0.35		Sheet Flow,							
						Grass: Dense n= 0.240 P2= 2.40"							
0.1	3	6 0.	.4400	4.64		Shallow Concentrated Flow,							
						Short Grass Pasture Kv= 7.0 fps							
1.3	24	6 0.	.0200	3.24	38.86	Trap/Vee/Rect Channel Flow,							
						Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00'							
						n= 0.069 Riprap, 6-inch							
6.2	38	2 T	otal										

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Summary for Subcatchment 55S: WS 12

Runoff = 2.97 cfs @ 12.05 hrs, Volume= 0.184 af, Depth= 0.72"

Area	(ac) C	N Des	cription								
0.	.000	98 Untr	Untreated existing impervious, HSG A								
0.			Untreated existing impervious, HSG C								
0.	.035		Untreated existing impervious, HSG D								
0.			Existing impervious to be treated as offset, HSG D								
0.	.000				azed, HSG A						
0.	.000	71 Exis	ting meado	ow, non-gra	azed, HSG C						
0.	.000	78 Exis	ting meado	ow, non-gra	azed, HSG D						
0.	.000	30 Exis	ting Wood	s, Good, H	SG A						
0.	.000	70 Exis	ting Wood	s, Good, H	SG C						
1.	.747	77 Exis	ting Wood	s, Good, H	SG D						
0.	.000	70 Prop	osed Woo	ds, Good,	HSG C						
0.			osed Woo	ds, Good,	HSG D						
					e treated, HSG C						
					oe treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
				•	adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
				•	adow to be treated, HSG C						
				•	adow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lif							
		•		dow, ski lif	t, HSG D						
		•	ghted Aver	•							
	.017		5% Pervio								
0.	.035	1.15	% Impervi	ous Area							
-	141.	01	V/-1	0	December 6						
Tc	Length	Slope	Velocity	Capacity	Description						
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)							
9.5	100	0.0800	0.18		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
1.5	174	0.0800	1.98		Shallow Concentrated Flow,						
0.4	4-	0.0500			Short Grass Pasture Kv= 7.0 fps						
0.1	17	0.3500	4.14		Shallow Concentrated Flow,						
0.0	00.4	0.4700	0.05	40 77	Short Grass Pasture Kv= 7.0 fps						
0.3	204	0.1700	9.95	49.77	Trap/Vee/Rect Channel Flow,						
					Bot.W=4.00' D=1.00' Z= 1.0 '/' Top.W=6.00'						
4.0	045	0.0700	4 4 5	40.45	n= 0.050						
1.0	245	0.0700	4.15	12.45	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
12.4	7.10	Total			n= 0.069						

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Summary for Subcatchment 56S: WS 12A

Runoff = 1.96 cfs @ 11.93 hrs, Volume= 0.084 af, Depth= 0.72"

Area	(ac) (CN Des	cription								
0.	000	98 Untr	Untreated existing impervious, HSG A								
0.	000		Untreated existing impervious, HSG C								
0.	000	98 Untr	Intreated existing impervious, HSG D								
0.	000	98 Exis	ting imper	vious to be	treated as offset, HSG D						
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A						
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0.	000	30 Exis	ting Wood	s, Good, H	SG A						
0.	000	70 Exis	ting Wood	s, Good, H	SG C						
0.	777	77 Exis	ting Wood	s, Good, H	SG D						
0.	000	70 Prop	osed Woo	ds, Good,	HSG C						
0.			osed Woo	ds, Good,	HSG D						
					pe treated, HSG C						
					pe treated, HSG D						
					ervious, HSG C						
					ervious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
				•	adow to be treated, HSG C						
					adow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lif							
				dow, ski lif	t, HSG D						
			ghted Aver								
	355		34% Pervio								
0.	037	2.66	6% Impervi	ous Area							
_											
Tc	Length		Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
0.4	33	0.0600	1.48		Sheet Flow,						
					Smooth surfaces n= 0.011 P2= 2.40"						
1.4	87	0.1600	1.00		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
0.3	254	0.1800	12.62	104.09	Trap/Vee/Rect Channel Flow,						
					Bot.W=4.00' D=1.50' Z= 1.0 '/' Top.W=7.00'						
					n= 0.050 Mountain streams w/large boulders						
2.2	374	Total									

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Summary for Subcatchment 57S: WS 12B

Runoff = 1.06 cfs @ 12.08 hrs, Volume= 0.079 af, Depth= 0.48"

Area	(ac) (CN Des	cription									
0.	.000	98 Unt	reated exis	ting imperv	rious, HSG A							
0.	.000				rious, HSG C							
0.	.000	98 Unt	Intreated existing impervious, HSG D									
0.	.000	98 Exis	existing impervious to be treated as offset, HSG D									
0.	.000	30 Exis	sting mead	ow, non-gra	azed, HSG A							
0.	.000	71 Exis	sting mead	ow, non-gra	azed, HSG C							
0.	.000	78 Exis	sting mead	ow, non-gra	azed, HSG D							
0.	.000	30 Exis	sting Wood	s, Good, H	SG A							
0.	.082	70 Exis	sting Wood	s, Good, H	SG C							
0.	.000	77 Exis	sting Wood	s, Good, H	SG D							
0.	.000			ods, Good,								
				ods, Good,								
					oe treated, HSG C							
0.					pe treated, HSG D							
					rvious, HSG C							
					rvious, HSG D							
					adow, non-grazed, HSG C							
					adow, non-grazed, HSG D							
					adow to be treated, HSG C							
			· · · · · · · · · · · · · · · · · · ·									
				idow, ski tra								
				idow, ski tra								
				idow, ski lif								
				idow, ski lif	t, HSG D							
			ghted Ave									
	.923	_	17% Pervio									
0.	.050	2.53	3% Impervi	ous Area								
_		01	\		B							
Tc	Length		Velocity	Capacity	Description							
(min)	(feet)	, ,	(ft/sec)	(cfs)								
7.2	100	0.1600	0.23		Sheet Flow,							
					Grass: Dense n= 0.240 P2= 2.40"							
1.6	304	0.2000	3.13		Shallow Concentrated Flow,							
	00-	0.0000	4.65		Short Grass Pasture Kv= 7.0 fps							
4.3	307	0.2300	1.20		Shallow Concentrated Flow,							
^ -	00	0.0000	0.00	0.05	Forest w/Heavy Litter Kv= 2.5 fps							
0.7	90	0.0200	2.22	6.65	Trap/Vee/Rect Channel Flow,							
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
10.6	201	T			n= 0.069 Riprap, 6-inch							
13.8	801	Total										

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Summary for Subcatchment 58S: WS 12C

Runoff = 2.64 cfs @ 12.09 hrs, Volume= 0.185 af, Depth= 0.72"

Area	(ac)	CN De	escription								
0.	.000	98 Ur	Jntreated existing impervious, HSG A								
0.	.000	98 Ur	Intreated existing impervious, HSG C								
0.	.000	98 Ur	Intreated existing impervious, HSG D								
0.	.000	98 Ex	Existing impervious to be treated as offset, HSG D								
0.	.000	30 Ex	isting mead	ow, non-gra	azed, HSG A						
0.	.000	71 Ex	isting mead	ow, non-gra	azed, HSG C						
0.	.000	78 Ex	isting mead	ow, non-gra	azed, HSG D						
0.	.000		isting Wood	ls, Good, H	SG A						
0.	.595	70 Ex	isting Wood	ls, Good, H	SG C						
0.	.000		isting Wood								
	.366		oposed Woo	ods, Good,	HSG C						
	.000		oposed Woo								
	.000				pe treated, HSG C						
	.000				pe treated, HSG D						
	.817				ervious, HSG C						
	.000				ervious, HSG D						
	.292				adow, non-grazed, HSG C						
	.000				adow, non-grazed, HSG D						
	.000				adow to be treated, HSG C						
	.000				adow to be treated, HSG D						
	.000		oposed mea								
	.000		oposed mea								
	.000		oposed mea								
	.000		oposed mea	•	t, HSG D						
	.070		eighted Ave								
	.253		.39% Pervio								
0.	.817	26	.61% Imper	vious Area							
т.	1 41-	Ola	- \/-l:t	0:	Description						
Tc	Length				Description						
(min)	(feet)			(cfs)							
10.8	50	0.160	0.08		Sheet Flow,						
					Woods: Dense underbrush n= 0.800 P2= 2.40"						
3.1	185	0.160	0 1.00		Shallow Concentrated Flow,						
0.4	053		0 40.04	44.00	Forest w/Heavy Litter Kv= 2.5 fps						
0.4	257	0.200	0 10.34	41.36	Trap/Vee/Rect Channel Flow,						
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'						
4 4	400	0.050	0 405		n= 0.050 Mountain streams w/large boulders						
1.4	103	0.250	0 1.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps						
453		T-4-1			i orest witheavy Litter INV- 2.3 Ips						
15.7	595	Total									

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Summary for Subcatchment 59S: WS 12D

Runoff = 2.14 cfs @ 12.06 hrs, Volume= 0.132 af, Depth= 0.87"

Area	(ac)	CN	Desc	cription					
0.	000	98	Untre	eated exis	ting imperv	rious, HSG A			
0.	000	98	Untre	eated exis	ting imperv	rious, HSG C			
0.	000	98	Untre	eated exis	ting imperv	rious, HSG D			
0.	000	98	Exist	ting imperv	ious to be	treated as offset, HSG D			
0.	000	30	Exist	ting meado	ow, non-gra	azed, HSG A			
0.	000	71	Exist	ting meado	ow, non-gra	azed, HSG C			
0.	000	78		ting meado	ow, non-gra	azed, HSG D			
0.	000	30			s, Good, H				
	000	70	Exist	ing Woods	s, Good, H	SG C			
	208	77			s, Good, H				
	000	70			ds, Good,				
	000	77			ds, Good,				
	233	98				e treated, HSG C			
	253	98				e treated, HSG D			
	000	98				rvious, HSG C			
	000	98				rvious, HSG D			
	000	71				dow, non-grazed, HSG C			
	000	78		Proposed developed meadow, non-grazed, HSG D					
	613	71		Proposed developed meadow to be treated, HSG C					
	516	78				adow to be treated, HSG D			
	000	71			dow, ski tra				
	000	78			dow, ski tra				
	000	71			dow, ski lift				
	000	78			dow, ski lift	t, HSG D			
	823	81		hted Aver					
	337			4% Pervio					
0.	486		26.6	6% Imperv	ious Area				
т.	امما	· I=	Clana	Valacity	Canacity	Description			
Tc	Lengt		Slope	Velocity	Capacity	Description			
(min)	(fee		(ft/ft)	(ft/sec)	(cfs)	OL (E)			
10.9	4	.9 (0.1500	0.07		Sheet Flow,			
4.4	•		. 4500	0.07		Woods: Dense underbrush n= 0.800 P2= 2.40"			
1.4	8	3 (0.1500	0.97		Shallow Concentrated Flow,			
0.0	40		2700	2.04		Forest w/Heavy Litter Kv= 2.5 fps			
8.0	18	4 (0.2700	3.64		Shallow Concentrated Flow,			
			- , .			Short Grass Pasture Kv= 7.0 fps			
13.1	31	б	Total						

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Summary for Subcatchment 60S: WS 12E

Runoff = 1.33 cfs @ 12.06 hrs, Volume= 0.084 af, Depth= 0.98"

Area	(ac)	CN	Desc	cription							
0.	000	98	Untre	Intreated existing impervious, HSG A							
0.	000	98	Untre	Jntreated existing impervious, HSG C							
0.	.000	98	Untre	eated exis	ting imperv	rious, HSG D					
0.	.000	98	Exist	ting imper	vious to be	treated as offset, HSG D					
0.	.000	30	Exist	ting mead	ow, non-gra	azed, HSG A					
	000	71				azed, HSG C					
	000	78	Exist	ting mead	ow, non-gra	azed, HSG D					
0.	.000	30	Exist	ting Wood	s, Good, H	SG A					
	.000	70			s, Good, H						
	.061	77			s, Good, H						
	.000	70			ds, Good,						
	.000	77			ds, Good,						
	.000	98				e treated, HSG C					
	.000	98				e treated, HSG D					
	.000	98				rvious, HSG C					
	300	98				rvious, HSG D					
	053	71				idow, non-grazed, HSG C					
	617	78				dow, non-grazed, HSG D					
	000	71				dow to be treated, HSG C					
	000	78				dow to be treated, HSG D					
	000	71			dow, ski tra						
	000	78			dow, ski tra						
	000	71			dow, ski lift						
	000	78			dow, ski lift	t, HSG D					
	.031	83	_	ghted Aver	•						
	731			0% Pervio							
0.	300		29.10	0% Imper	/ious Area						
_											
Tc	Lengtl		Slope	Velocity	Capacity	Description					
(min)	(feet		(ft/ft)	(ft/sec)	(cfs)						
10.8	6	1 0.	.2400	0.09		Sheet Flow,					
						Woods: Dense underbrush n= 0.800 P2= 2.40"					
1.1	8	1 0	.2400	1.22		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
1.2	10 ⁻	1 0.	.3200	1.41		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
8.0	16	5 0	.2400	3.43		Shallow Concentrated Flow,					
						Short Grass Pasture Kv= 7.0 fps					
13.9	408	8 T	otal								

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Summary for Subcatchment 61S: WS 12F

Runoff = 3.06 cfs @ 12.05 hrs, Volume= 0.184 af, Depth= 0.77"

Area	(ac) C	N Des	cription							
0.	000	98 Untr	Intreated existing impervious, HSG A							
0.	000		Intreated existing impervious, HSG C							
0.	000	98 Untr	eated exis	ting imperv	rious, HSG D					
0.	000	98 Exis	ting imper	vious to be	treated as offset, HSG D					
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A					
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C					
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
0.	000	30 Exis	ting Wood	s, Good, H	SG A					
0.	000	70 Exis	ting Wood	s, Good, H	SG C					
1.	236			s, Good, H						
0.	064			ods, Good,						
			osed Woo	ods, Good,	HSG D					
					e treated, HSG C					
					e treated, HSG D					
					rvious, HSG C					
					rvious, HSG D					
					idow, non-grazed, HSG C					
					idow, non-grazed, HSG D					
					dow to be treated, HSG C					
	0.000 78 Proposed developed meadow to be treated, HSG D									
				idow, ski tra						
				idow, ski tra						
				idow, ski lift						
				idow, ski lift	t, HSG D					
			ghted Avei							
	548		8% Pervio							
0.	322	11.2	2% Imper	vious Area						
т.		Ola a	\/-l:4··	Oit	Description					
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
7.4	100	0.1500	0.23		Sheet Flow,					
0.7	405	0.0400	4.45		Grass: Dense n= 0.240 P2= 2.40"					
2.7	185	0.2100	1.15		Shallow Concentrated Flow,					
0.4	057	0.0000	40.04	44.00	Forest w/Heavy Litter Kv= 2.5 fps					
0.4	257	0.2000	10.34	41.36	Trap/Vee/Rect Channel Flow,					
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'					
4 4	400	0.0500	4.05		n= 0.050 Mountain streams w/large boulders					
1.4	103	0.2500	1.25		Shallow Concentrated Flow,					
44.0	0.45	T-4-1			Forest w/Heavy Litter Kv= 2.5 fps					
11.9	645	Total								

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Summary for Subcatchment 62S: WS 12G

Runoff = 3.73 cfs @ 12.17 hrs, Volume= 0.327 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 2-Year Rainfall=2.40"

Ar	ea (a	ac) C	N Des	cription							
	0.0	00 9	98 Untr	eated exis	ting imperv	ious, HSG A					
	0.0	00 9	98 Untr	Jntreated existing impervious, HSG C							
	0.0	00 9	98 Untr	eated exis	ting imperv	ious, HSG D					
	0.0			ting imper	vious to be	treated as offset, HSG D					
	0.0			ting meado	ow, non-gra	azed, HSG A					
	0.0			ting meado	ow, non-gra	azed, HSG C					
	0.0			ting meado	ow, non-gra	azed, HSG D					
	0.0			ting Wood:	s, Good, H	SG A					
	0.0			ting Wood	s, Good, H	SG C					
	1.43			ting Wood:	s, Good, H	SG D					
	0.6				ds, Good, l						
	0.34	40 7	77 Prop	osed Woo	ds, Good, l	HSG D					
	0.0	00 9	98 Prop	osed impe	ervious to b	e treated, HSG C					
	0.0					e treated, HSG D					
	0.0					rvious, HSG C					
	0.5					rvious, HSG D					
	0.0					dow, non-grazed, HSG C					
	1.14					dow, non-grazed, HSG D					
	0.0				•	dow to be treated, HSG C					
	0.0		78 Proposed developed meadow to be treated, HSG D								
	0.9				dow, ski tra						
	0.6				dow, ski tra						
	0.0				dow, ski lift						
	0.0				dow, ski lift	I, HSG D					
	5.78	-		ghted Aver							
	5.2			7% Pervio							
	0.50	05	8.73	% Impervi	ous Area						
			0.1			D 1.0					
		Length	Slope	Velocity	Capacity	Description					
(mi		(feet)	(ft/ft)	(ft/sec)	(cfs)						
10	.7	142	0.1200	0.22		Sheet Flow,					
						Grass: Dense n= 0.240 P2= 2.40"					
1	.9	277	0.1200	2.42		Shallow Concentrated Flow,					
=						Short Grass Pasture Kv= 7.0 fps					
8	.9	569	0.1800	1.06		Shallow Concentrated Flow,					
_	•		0.0000		40.00	Forest w/Heavy Litter Kv= 2.5 fps					
C	.8	222	0.0800	4.74	18.96	Trap/Vee/Rect Channel Flow,					
						Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'					
			T.4.1			n= 0.069 Riprap, 6-inch					

22.3 1,210 Total

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Summary for Subcatchment 63S: WS 13

Runoff = 0.45 cfs @ 12.04 hrs, Volume= 0.026 af, Depth= 0.93"

Area ((ac) (CN Des	scription						
0.0	000	98 Unt	reated exis	ting imperv	rious, HSG A				
0.0	000	98 Unt	reated exis	ting imperv	rious, HSG C				
0.0	074	98 Unt	reated exis	ting imperv	rious, HSG D				
0.0	000	98 Exis	sting imper	vious to be	treated as offset, HSG D				
0.0	000	30 Exis	sting mead	ow, non-gra	azed, HSG A				
0.0	000	71 Exis	sting mead	ow, non-gra	azed, HSG C				
0.0	000	78 Exis	sting mead	ow, non-gra	azed, HSG D				
0.0			sting Wood	s, Good, H	SG A				
			sting Wood						
			sting Wood						
			posed Woo						
0.0			posed Woo						
					e treated, HSG C				
					e treated, HSG D				
					rvious, HSG C				
_					rvious, HSG D				
			Proposed developed meadow, non-grazed, HSG C						
			Proposed developed meadow, non-grazed, HSG D						
			•	•	dow to be treated, HSG C				
					dow to be treated, HSG D				
			posed mea						
			posed mea						
			posed mea						
			posed mea		t, HSG D				
			ighted Aver						
	264	_	11% Pervio						
0.0	074	21.8	39% Imper	/ious Area					
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
9.6	36	0.1100	0.06		Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
1.9	254	0.0200	2.22	6.65	Trap/Vee/Rect Channel Flow, ditch				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.069				
11.5	290	Total							

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Summary for Subcatchment 64S: WS 13A

Runoff = 2.50 cfs @ 12.09 hrs, Volume= 0.172 af, Depth= 0.72"

Area	(ac)	CN	l Desc	cription					
0.	.000	98	3 Untr	eated exis	ting imperv	ious, HSG A			
0	.000	98				ious, HSG C			
0	.000	98	3 Untr	eated exis	ting imperv	ious, HSG D			
0	.000	98	B Exist	ting imper	vious to be	treated as offset, HSG D			
0.	.000	30) Exist	ting mead	ow, non-gra	azed, HSG A			
0.	.000	71	l Exist	ting mead	ow, non-gra	azed, HSG C			
0.	.000	78	B Exist	ting mead	ow, non-gra	azed, HSG D			
0.	.000	30) Exist	ting Wood	s, Good, H	SG A			
0.	.000	70) Exist	ting Wood	s, Good, H	SG C			
0.	.353	77	⁷ Exist	ting Wood	s, Good, H	SG D			
0.	.000	70) Prop	osed Woo	ds, Good, l	HSG C			
0	.301	77		osed Woo	ds, Good, l	HSG D			
	.000	98				e treated, HSG C			
	.000	98				e treated, HSG D			
	.000	98				rvious, HSG C			
	.000	98		Untreated proposed impervious, HSG D					
	.000	71		Proposed developed meadow, non-grazed, HSG C					
	.000	78		Proposed developed meadow, non-grazed, HSG D					
	.000	71		Proposed developed meadow to be treated, HSG C					
	.695	78		Proposed developed meadow to be treated, HSG D					
	.000	71			dow, ski tra				
	.500	78			dow, ski tra				
	.000	71			dow, ski lift				
_	.000	78			dow, ski lift	t, HSG D			
	.849	78		ghted Aver	•				
2	.849		100.	00% Pervi	ous Area				
_									
Тс	Leng		Slope	Velocity	Capacity	Description			
(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)				
9.0	10	00	0.0900	0.18		Sheet Flow,			
						Grass: Dense n= 0.240 P2= 2.40"			
1.4	21	11	0.1300	2.52		Shallow Concentrated Flow,			
						Short Grass Pasture Kv= 7.0 fps			
4.7	30)1	0.1800	1.06		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
15.1	61	12	Total						

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Summary for Subcatchment 65S: WS 13B

Runoff 2.95 cfs @ 11.91 hrs, Volume= 0.125 af, Depth= 0.98"

Area	(ac) C	N Des	cription							
0	.000	98 Untr	Jntreated existing impervious, HSG A							
0	.000		Jntreated existing impervious, HSG C							
0	.000	98 Untr	Untreated existing impervious, HSG D							
0	.000	98 Exis	ting imper	vious to be	treated as offset, HSG D					
0	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A					
0	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C					
0	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
0	.000	30 Exis	ting Wood	s, Good, H	SG A					
0	.086			s, Good, H						
0	.116	77 Exis	ting Wood	s, Good, H	SG D					
0	.000	70 Prop	osed Woo	ds, Good,	HSG C					
0	.000	77 Prop	osed Woo	ds, Good,	HSG D					
0	.379				e treated, HSG C					
					e treated, HSG D					
					rvious, HSG C					
					rvious, HSG D					
					idow, non-grazed, HSG C					
					idow, non-grazed, HSG D					
	0.383 71 Proposed developed meadow to be treated, HSG C									
					dow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lift						
				dow, ski lift	t, HSG D					
			ghted Aver							
	.001		4% Pervio							
0	.524	34.3	6% Imper	vious Area						
-	1	01	17.1	0: 1	December					
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
0.8	100	0.0700	1.97		Sheet Flow,					
0.4	0.5	0.0700	5.07		Smooth surfaces n= 0.011 P2= 2.40"					
0.1	25	0.0700	5.37		Shallow Concentrated Flow,					
0.4	00	0.4000	00.00	00.40	Paved Kv= 20.3 fps					
0.1	88	0.1600	28.80	90.49	Pipe Channel,					
					24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'					
0.0	440	0.0000	7.04	04.04	n= 0.013 Corrugated PE, smooth interior					
0.3	118	0.2000	7.01	21.04	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
	001	Takal			n= 0.069 Riprap, 6-inch					
1.3	331	Total								

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Summary for Subcatchment 66S: WS 13C

Runoff = 3.37 cfs @ 12.01 hrs, Volume= 0.179 af, Depth= 0.87"

Area	(ac) C	N Des	cription							
0.	.000	98 Untr	Intreated existing impervious, HSG A							
0.	.000		Intreated existing impervious, HSG C							
0.	.000	98 Untr	Intreated existing impervious, HSG D							
0.	.000	98 Exis	ting imper	vious to be	treated as offset, HSG D					
0.	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A					
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C					
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
			ting Wood	s, Good, H	SG A					
				s, Good, H						
				s, Good, H						
				ods, Good,						
				ds, Good,						
					e treated, HSG C					
					e treated, HSG D					
					rvious, HSG C					
					rvious, HSG D					
					dow, non-grazed, HSG C					
			Proposed developed meadow, non-grazed, HSG D							
			Proposed developed meadow to be treated, HSG C							
			Proposed developed meadow to be treated, HSG D							
		71 Proposed meadow, ski trail, HSG C 78 Proposed meadow, ski trail, HSG D								
				idow, ski lif						
				idow, ski lif	I, HSG D					
			ghted Ave							
	.569		5% Pervio							
U.	.900	36.4	5% imper	vious Area						
Тс	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Description					
7.8	100	0.1300	0.21	(013)	Chaot Flow					
1.0	100	0.1300	0.21		Sheet Flow, Grass: Dense n= 0.240 P2= 2.40"					
0.3	42	0.1300	2.52		Shallow Concentrated Flow,					
0.3	42	0.1300	2.32		Short Grass Pasture Kv= 7.0 fps					
0.4	170	0.1800	6.65	19.96	Trap/Vee/Rect Channel Flow,					
0.4	170	0.1000	0.03	19.90	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.069 Riprap, 6-inch					
0.4	97	0.3100	3.90		Shallow Concentrated Flow,					
0.4	31	0.0100	0.00		Short Grass Pasture Kv= 7.0 fps					
8.9	409	Total			Chart Grade i detaile itt 7.0 ipe					
0.0	-100	iotai								

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Summary for Subcatchment 67S: WS 14

Runoff = 1.06 cfs @ 12.10 hrs, Volume= 0.075 af, Depth= 0.72"

Area	(ac) C	N Desc	cription								
0.	.000	98 Untr	Jntreated existing impervious, HSG A								
0.	.000		Jntreated existing impervious, HSG C								
0.			Untreated existing impervious, HSG D								
0.			Existing impervious to be treated as offset, HSG D								
0.			Existing meadow, non-grazed, HSG A								
0.			ting mead	ow, non-gra	azed, HSG C						
0.	.000				azed, HSG D						
0.	.000			s, Good, H							
0.			•	s, Good, H							
0.	.657			s, Good, H							
0.	.000	70 Prop	osed Woo	ds, Good,	HSG C						
0.	.170			ds, Good,							
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG C						
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG D						
0.	.000	98 Untr	eated prop	osed impe	rvious, HSG C						
0.	.000	98 Untr	eated prop	osed impe	rvious, HSG D						
0.	.002	71 Prop	osed deve	eloped mea	adow, non-grazed, HSG C						
0.	.000	78 Prop	osed deve	eloped mea	adow, non-grazed, HSG D						
0.	0.000 71 Proposed developed meadow to be treated, HSG C										
0.	0.192 78 Proposed developed meadow to be treated, HSG D										
	0.080 71 Proposed meadow, ski trail, HSG C										
	0.096 78 Proposed meadow, ski trail, HSG D										
0	.000	78 Prop	osed mea	dow, ski lif	t, HSG D						
		•	ghted Aver	•							
	.197		9% Pervio								
0.	.041	3.31	% Impervi	ous Area							
_					-						
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
7.6	81	0.0900	0.18		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
0.6	28	0.0900	0.75		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
0.4	44	0.5000	1.77		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
3.1	192	0.1700	1.03		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
4.0	209	0.1200	0.87		Shallow Concentrated Flow,						
2.2		0.0400	4.00	40.00	Forest w/Heavy Litter Kv= 2.5 fps						
0.3	70	0.0400	4.33	12.98	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.050						

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16.0 624 Total

Summary for Subcatchment 68S: WS 15

Runoff = 1.03 cfs @ 12.07 hrs, Volume= 0.069 af, Depth= 0.63"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.017	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.015	70	Existing Woods, Good, HSG C
0.776	77	Existing Woods, Good, HSG D
0.110	70	Proposed Woods, Good, HSG C
0.042	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.006	71	Proposed developed meadow, non-grazed, HSG C
0.096	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.244	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.306	76	Weighted Average
1.289		98.70% Pervious Area
0.017		1.30% Impervious Area

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55310.01-West Mountain-PR

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	100	0.0700	0.17		Sheet Flow,
					Grass: Dense n= 0.240 P2= 2.40"
0.6	69	0.0700	1.85		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
0.1	44	0.5000	4.95		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
0.2	170	0.1500	12.39	148.70	Trap/Vee/Rect Channel Flow,
					Bot.W=6.50' D=1.50' Z= 1.0 '/' Top.W=9.50'
					n= 0.050
1.3	99	0.2400	1.22		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.3	99	0.2400	1.22		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.2	43	0.0900	4.70	14.11	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.069
13.7	624	Total			

Summary for Subcatchment 69S: WS 15A

Runoff = 1.69 cfs @ 11.95 hrs, Volume= 0.077 af, Depth= 0.51"

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Area	(ac)	CN Des	cription						
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A				
0.	000		Jntreated existing impervious, HSG C						
0.	000	98 Untr	eated exis	ting imperv	rious, HSG D				
0.	000				treated as offset, HSG D				
0.	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A				
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C				
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D				
0.	.000	30 Exis	ting Wood	s, Good, H	SG A				
1.	051	70 Exis	ting Wood	s, Good, H	SG C				
0.	.000	77 Exis	ting Wood	s, Good, H	SG D				
	000			ds, Good,					
0.	000	77 Prop	osed Woo	ds, Good,	HSG D				
	047				e treated, HSG C				
	.000				oe treated, HSG D				
	092				rvious, HSG C				
	000				rvious, HSG D				
	595				adow, non-grazed, HSG C				
	0.000 78 Proposed developed meadow, non-grazed, HSG D								
	.000				adow to be treated, HSG C				
	.000				adow to be treated, HSG D				
	000			dow, ski tra					
	.000			dow, ski tra					
	.000			dow, ski lif					
0.	000		osed mea	dow, ski lif	t, HSG D				
1.	785		ghted Aver						
	646	92.2	1% Pervio	us Area					
0.	139	7.79)% Impervi	ous Area					
Tc	Length		Velocity	Capacity	Description				
(min)	(feet)		(ft/sec)	(cfs)					
0.6	72	0.0800	1.94		Sheet Flow,				
					Smooth surfaces n= 0.011 P2= 2.40"				
2.3	155	0.2100	1.15		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
0.2	149	0.1200	11.08	133.00	Trap/Vee/Rect Channel Flow,				
					Bot.W=6.50' D=1.50' Z= 1.0 '/' Top.W=9.50'				
-					n= 0.050 Mountain streams w/large boulders				
3.1	376	Total							

Summary for Subcatchment 70S: WS 15B

Runoff = 1.90 cfs @ 12.09 hrs, Volume= 0.139 af, Depth= 0.51"

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Area	(ac)	CN	Desc	ription							
0.	000	98	Untre	Intreated existing impervious, HSG A							
0.	000	98			•	ious, HSG C					
0.	000	98		Intreated existing impervious, HSG D							
	000	98				treated as offset, HSG D					
	000	30				azed, HSG A					
0.	000	71				azed, HSG C					
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D					
0.	000	30	Exist	ing Woods	s, Good, H	SG Å					
0.	688	70	Exist	ing Woods	s, Good, H	SG C					
0.	000	77			s, Good, H						
0.	075	70			ds, Good, I						
0.	000	77	Prop	osed Woo	ds, Good, I	HSG D					
0.	000	98	Prop	osed impe	rvious to b	e treated, HSG C					
0.	000	98	Prop	osed impe	rvious to b	e treated, HSG D					
0.	321	98	Untre	eated prop	osed impe	rvious, HSG C					
0.	000	98	Untre	eated prop	osed impe	rvious, HSG D					
1.	1.519 71 Proposed developed meadow, non-grazed, HSG C										
	0.000 78 Proposed developed meadow, non-grazed, HSG D										
	0.000 71 Proposed developed meadow to be treated, HSG C										
0.	000	78	Prop	osed deve	loped mea	dow to be treated, HSG D					
	647	71	Prop	osed mea	dow, ski tra	ail, HSG C					
	000	78	Prop	osed mea	dow, ski tra	ail, HSG D					
	000	71			dow, ski lift						
0.	000	78	Prop	osed mea	dow, ski lift	t, HSG D					
3.	250	73	Weig	hted Aver	age						
2.	929		90.12	2% Pervio	us Area						
0.	321		9.889	% Impervi	ous Area						
Tc	Lengt	h	Slope	Velocity	Capacity	Description					
(min)	(feet	t)	(ft/ft)	(ft/sec)	(cfs)						
7.0	10	0 0	.1700	0.24		Sheet Flow,					
						Grass: Dense n= 0.240 P2= 2.40"					
7.0	50	2 0	.2300	1.20		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
0.3	8	7 0	.0700	4.15	12.45	Trap/Vee/Rect Channel Flow,					
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
						n= 0.069 Riprap, 6-inch					
14.3	68	9 T	otal								

Summary for Subcatchment 71S: WS 15C

Runoff = 0.48 cfs @ 12.30 hrs, Volume= 0.053 af, Depth= 0.72"

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Area	(ac) C	N Des	cription							
0.	000	98 Untr	Untreated existing impervious, HSG A							
			Jntreated existing impervious, HSG C							
			Intreated existing impervious, HSG D							
					treated as offset, HSG D					
					azed, HSG A					
0.	000				azed, HSG C					
0.	000				azed, HSG D					
0.	000			s, Good, H						
0.	000			s, Good, H						
0.	000	77 Exis	ting Wood	s, Good, H	SG D					
0.	010	70 Prop	osed Woo	ds, Good,	HSG C					
0.	000			ds, Good,						
0.	000	98 Prop	osed impe	ervious to b	e treated, HSG C					
0.	000	98 Prop	osed impe	ervious to b	e treated, HSG D					
			eated prop	osed impe	rvious, HSG C					
					rvious, HSG D					
	0.551 71 Proposed developed meadow, non-grazed, HSG C									
	0.000 78 Proposed developed meadow, non-grazed, HSG D									
					dow to be treated, HSG C					
					adow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lift						
				dow, ski lif	t, HSG D					
			ghted Aver							
	664	_	0% Pervio							
0.	219	24.8	0% Imper	∕ious Area						
_		01			B					
Tc	Length	Slope	Velocity	Capacity	Description					
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)						
31.0	66	0.0200	0.04		Sheet Flow,					
0.4	4.4	0.4400	4.04		n= 0.800 P2= 2.40"					
0.1	41	0.4400	4.64		Shallow Concentrated Flow,					
0.0	400	0.4700	0.00		Short Grass Pasture Kv= 7.0 fps					
0.6	108	0.1700	2.89		Shallow Concentrated Flow,					
0.7	4 4 4	0.2400	2 24		Short Grass Pasture Kv= 7.0 fps					
0.7	141	0.2100	3.21		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps					
32.4	356	Total			Short Grass rasture TV- 1.0 ips					
3∠.4	330	าบเสเ								

Summary for Subcatchment 72S: WS 15D

Runoff = 0.38 cfs @ 11.99 hrs, Volume= 0.019 af, Depth= 0.51"

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Area	(ac)	CN	Desc	cription							
0.	000	98	Untro	eated exis	ting imperv	rious, HSG A					
0.	000	98	Untr	Jntreated existing impervious, HSG C							
0.	000	98	Untr	Jntreated existing impervious, HSG D							
0.	.000	98	Exist	ting imperv	ious to be	treated as offset, HSG D					
0.	.000	30	Exist	ting meado	ow, non-gra	azed, HSG A					
0.	000	71	Exist	ting meado	ow, non-gra	azed, HSG C					
0.	000	78		ting meado	ow, non-gra	azed, HSG D					
0.	.000	30	Exist	ting Woods	s, Good, H	SG A					
	000	70			s, Good, H						
0.	000	77	Exist	ting Woods	s, Good, H	SG D					
0.	038	70	Prop	osed Woo	ds, Good, I	HSG C					
	.000	77			ds, Good, l						
	.000	98				e treated, HSG C					
	.000	98				e treated, HSG D					
	042	98 Untreated proposed impervious, HSG C									
	.000	98		Untreated proposed impervious, HSG D							
	372	71		Proposed developed meadow, non-grazed, HSG C							
	.002	78	, J ,								
	.000	71				ndow to be treated, HSG C					
	.000	78				dow to be treated, HSG D					
	.000	71			dow, ski tra						
	000	78			dow, ski tra						
	000	71			dow, ski lift						
	000	78		osed mea	dow, ski lift	t, HSG D					
	454	73		ghted Aver							
	412			5% Pervio							
0.	042		9.25	% Impervi	ous Area						
_	_										
Tc	Lengt		Slope	Velocity	Capacity	Description					
<u>(min)</u>	(fee		(ft/ft)	(ft/sec)	(cfs)						
6.0	4	3 ().5100	0.12		Sheet Flow,					
						n= 0.800 P2= 2.40"					
0.2	6	88 ().5100	5.00		Shallow Concentrated Flow,					
						Short Grass Pasture Kv= 7.0 fps					
6.2	11	1 1	Γotal								

Summary for Subcatchment 73S: WS 15E

Runoff = 1.35 cfs @ 11.98 hrs, Volume= 0.065 af, Depth= 0.98"

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Area	(ac) C	N Des	cription								
0.	.000	98 Untr	Jntreated existing impervious, HSG A								
					rious, HSG C						
0.	.000		Jntreated existing impervious, HSG D								
0.	.000		Existing impervious to be treated as offset, HSG D								
0.	000				azed, HSG A						
0.	000	71 Exis	ting meado	ow, non-gra	azed, HSG C						
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0.	.000	30 Exis	ting Wood	s, Good, H	SG A						
0.	000	70 Exis	ting Wood	s, Good, H	SG C						
0.	000	77 Exis	ting Wood	s, Good, H	SG D						
				ds, Good,							
				ds, Good,							
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
				•	adow, non-grazed, HSG C						
	0.000 78 Proposed developed meadow, non-grazed, HSG D										
				•	adow to be treated, HSG C						
					adow to be treated, HSG D						
				dow, ski tra	· ·						
				dow, ski tra dow, ski lift							
				dow, ski lift dow, ski lift							
					I, 1130 D						
	.794 (.566	•	ghted Aver 8% Pervio								
	228			vious Area							
0.	220	20.7	2 /0 IIIIperv	vious Alea							
Тс	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Bosonphon						
4.0	21	0.3300	0.09	(0.0)	Sheet Flow,						
7.0	21	0.0000	0.03		n= 0.800 P2= 2.40"						
1.0	286	0.0900	4.70	14.11	Trap/Vee/Rect Channel Flow, roadway ditch						
1.0	200	0.0000	4.70		Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
0.8	162	0.0500	3.51	10.52							
0.0		0.0000	0.0.		Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
0.3	68	0.0600	3.84	11.52	Trap/Vee/Rect Channel Flow, roadway ditch						
					Bot.W=2.00' D=1.00' Z= 1.0'/' Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
6.1	537	Total			• •						

Summary for Subcatchment 74S: WS 15F

Runoff = 4.11 cfs @ 12.01 hrs, Volume= 0.222 af, Depth= 0.87"

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Area	(ac)	CN	Desc	cription							
0.	.000	98	Untre	Intreated existing impervious, HSG A							
0.	000	98			• .	ious, HSG C					
0.	000	98		Intreated existing impervious, HSG D							
	000	98				treated as offset, HSG D					
	000	30				azed, HSG A					
0.	000	71				azed, HSG C					
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D					
0.	000	30	Exist	ing Woods	s, Good, H	SG A					
0.	000	70	Exist	ing Woods	s, Good, H	SG C					
0.	227	77			s, Good, H						
0.	000	70			ds, Good, I						
0.	418	77	Prop	osed Woo	ds, Good, I	HSG D					
0.	000	98	Prop	osed impe	rvious to b	e treated, HSG C					
0.	000	98	Prop	osed impe	rvious to b	e treated, HSG D					
0.	.001	98	Untre	eated prop	osed impe	rvious, HSG C					
0.	508	98	Untre	eated prop	osed impe	rvious, HSG D					
0.	0.014 71 Proposed developed meadow, non-grazed, HSG C										
1.	1.020 78 Proposed developed meadow, non-grazed, HSG D										
0.	0.000 71 Proposed developed meadow to be treated, HSG C										
0.	.000	78	Prop	osed deve	loped mea	dow to be treated, HSG D					
0.	011	71	Prop	osed mea	dow, ski tra	ail, HSG C					
0.	852	78	Prop	osed mea	dow, ski tra	ail, HSG D					
0.	.000	71	Prop	osed mea	dow, ski lift	; HSG C					
0.	.000	78	Prop	osed mea	dow, ski lift	HSG D					
3.	051	81	Weig	hted Aver	age						
	542		83.3	2% Pervio	us Area						
0.	509		16.6	8% Imperv	ious Area						
				•							
Tc	Lengtl	h S	Slope	Velocity	Capacity	Description					
(min)	(feet	:)	(ft/ft)	(ft/sec)	(cfs)	·					
7.6	100	0 0.	1400	0.22		Sheet Flow,					
						Grass: Dense n= 0.240 P2= 2.40"					
0.5	8	3 0.	1400	2.62		Shallow Concentrated Flow,					
						Short Grass Pasture Kv= 7.0 fps					
1.1	40	1 0.	1400	5.87	17.60	Trap/Vee/Rect Channel Flow,					
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
						n= 0.069 Riprap, 6-inch					
9.2	584	4 To	otal								

Summary for Subcatchment 75S: WS 15G

Runoff = 3.26 cfs @ 12.06 hrs, Volume= 0.203 af, Depth= 0.72"

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Area	(ac)	CN	Desc	cription							
0.	000	98	Untre	eated exis	ting imperv	ious, HSG A					
0.	000	98				ious, HSG C					
0.	000	98	Untre	Intreated existing impervious, HSG D							
0.	000	98		Existing impervious to be treated as offset, HSG D							
0.	000	30	Exist	ing meado	ow, non-gra	azed, HSG A					
0.	000	71				azed, HSG C					
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D					
0.	000	30	Exist	ing Woods	s, Good, H	SG A					
0.	422	70	Exist	ing Woods	s, Good, H	SG C					
0.	000	77	Exist	ing Woods	s, Good, H	SG D					
0.	485	70	Prop	osed Woo	ds, Good,	HSG C					
0.	098	77	Prop	osed Woo	ds, Good,	HSG D					
0.	000	98	Prop	osed impe	ervious to b	e treated, HSG C					
	000	98				e treated, HSG D					
	784	98				rvious, HSG C					
	042	98				rvious, HSG D					
	1.239 71 Proposed developed meadow, non-grazed, HSG C										
	0.296 78 Proposed developed meadow, non-grazed, HSG D										
	0.000 71 Proposed developed meadow to be treated, HSG C										
	000	78				dow to be treated, HSG D					
	000	71			dow, ski tra						
	000	78			dow, ski tra						
	000	71			dow, ski lift						
0.	000	78	Prop	<u>osed mea</u>	dow, ski lift	t, HSG D					
	366	78		hted Aver	•						
	540			6% Pervio							
0.	826		24.5	4% Imperv	/ious Area						
		_									
Tc	Lengtl		lope	Velocity	Capacity	Description					
(min)	(feet		(ft/ft)	(ft/sec)	(cfs)						
10.7	54	4 0.1	1900	0.08		Sheet Flow,					
	_					Woods: Dense underbrush n= 0.800 P2= 2.40"					
0.3	2	1 0.1	1900	1.09		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
1.5	544	4 0.1	1400	5.87	17.60	Trap/Vee/Rect Channel Flow,					
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
						n= 0.069 Riprap, 6-inch					
12.5	619	9 To	tal								

Summary for Subcatchment 76S: WS 15H

Runoff = 6.10 cfs @ 12.47 hrs, Volume= 0.933 af, Depth= 0.51"

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۸	()	NI D	4:								
Area			cription		·						
			Jntreated existing impervious, HSG A								
			Jntreated existing impervious, HSG C								
			Untreated existing impervious, HSG D								
					treated as offset, HSG D						
					azed, HSG A						
					azed, HSG C						
					azed, HSG D						
				s, Good, H							
				s, Good, H							
				s, Good, H							
				ds, Good, l ds, Good, l							
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					dow, non-grazed, HSG C						
	0.163 78 Proposed developed meadow, non-grazed, HSG D 0.000 71 Proposed developed meadow to be treated, HSG C										
					dow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lift							
0	.000			dow, ski lift							
21	.776		ghted Aver								
	.948		0% Pervio								
0	.828	3.80	% Impervi	ous Area							
			·								
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
7.8	100	0.1300	0.21		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
1.6	358	0.2800	3.70		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
17.3	1,352	0.2700	1.30		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
4.1	765	0.2000	3.13		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
11.8	793	0.2000	1.12		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
42.6	3,368	Total									

Summary for Subcatchment 77S: WS 16

Runoff = 0.77 cfs @ 12.11 hrs, Volume= 0.058 af, Depth= 0.59"

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	Area (ac) C	N Desc	cription					
	0.0	000	98 Untr	eated exis	ting imperv	ious, HSG A			
			98 Untr	eated exis	ting imperv	ious, HSG C			
				ious, HSG D					
					treated as offset, HSG D				
						azed, HSG A			
						azed, HSG C			
						azed, HSG D			
					s, Good, H				
					s, Good, H				
				•	s, Good, H				
					ds, Good, I				
					ds, Good, I				
						e treated, HSG C			
						e treated, HSG D			
						rvious, HSG C rvious, HSG D			
						dow, non-grazed, HSG C			
						dow, non-grazed, HSG D			
						dow to be treated, HSG C			
	0.000 78 Proposed developed meadow to be treated, HSG D 0.154 71 Proposed meadow, ski trail, HSG C								
	0.000 78 Proposed meadow, ski trail, HSG D								
	0.000 71 Proposed meadow, ski lift, HSG C 0.000 78 Proposed meadow, ski lift, HSG D								
_	1.1	173 7	75 Weig	ghted Aver	age				
	1.1	136		5% Pervio					
	0.0)37	3.15	% Impervi	ous Area				
		Length	Slope	Velocity	Capacity	Description			
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
	9.0	100	0.0900	0.18		Sheet Flow,			
						Grass: Dense n= 0.240 P2= 2.40"			
	0.2	30	0.0900	2.10		Shallow Concentrated Flow,			
						Short Grass Pasture Kv= 7.0 fps			
	0.3	25	0.4000	1.58		Shallow Concentrated Flow,			
	4.0	440	0.0500	4.05		Forest w/Heavy Litter Kv= 2.5 fps			
	1.6	119	0.2500	1.25		Shallow Concentrated Flow,			
	0.6	420	0.4200	0.00		Forest w/Heavy Litter Kv= 2.5 fps			
	2.6	139	0.1300	0.90		Shallow Concentrated Flow,			
	2.6	161	0.4700	1.02		Forest w/Heavy Litter Kv= 2.5 fps			
	2.6	161	0.1700	1.03		Shallow Concentrated Flow,			
	0.1	70	0.0300	8.52	25.56	Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow,			
	U. I	70	0.0300	0.52	25.50	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
						n= 0.022			
-	16.4	644	Total			11 0.022			
	10.4	044	iolai						

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Summary for Subcatchment 78S: WS 17

Runoff = 1.74 cfs @ 11.94 hrs, Volume= 0.076 af, Depth= 0.68"

Area	(ac)	CN	Desc	cription								
0.	.000	98	Untre	Jntreated existing impervious, HSG A								
0	.000	98		Jntreated existing impervious, HSG C								
0	.047	98	Untre	Intreated existing impervious, HSG D								
0.	.000											
0.	.000	30										
0.	.000											
0.	.000	78	Exist	ting mead	ow, non-gra	azed, HSG D						
	.000	30			s, Good, H							
	.011	70			s, Good, H							
0.	.793	77	Exist	ting Wood	s, Good, H	SG D						
0.	.000	70	Prop	osed Woo	ds, Good,	HSG C						
0.	.000	77	Prop	osed Woo	ds, Good,	HSG D						
	.000	98				pe treated, HSG C						
	.000	98				pe treated, HSG D						
	.047	98				ervious, HSG C						
	.000	98				ervious, HSG D						
	.275	71				adow, non-grazed, HSG C						
	0.044 78 Proposed developed meadow, non-grazed, HSG D											
	0.000 71 Proposed developed meadow to be treated, HSG C											
	.000	78				adow to be treated, HSG D						
	.119	71			dow, ski tra							
	.000	78			dow, ski tra							
	.000	71			dow, ski lif							
	.000	78			dow, ski lif	t, HSG D						
	.336	77		ghted Aver								
	.242			6% Pervio								
0.	.094		7.04	% Impervi	ous Area							
_	_				_							
Tc	Lengt		Slope	Velocity	Capacity	Description						
<u>(min)</u>	(feet		(ft/ft)	(ft/sec)	(cfs)							
0.2	2	3 0.	1700	2.09		Sheet Flow,						
						n= 0.011 P2= 2.40"						
0.4	5	30.	0800	1.98		Shallow Concentrated Flow,						
						Short Grass Pasture Kv= 7.0 fps						
2.1	12	6 0.	1600	1.00		Shallow Concentrated Flow,						
						Forest w/Heavy Litter Kv= 2.5 fps						
0.2	20	2 0.	1400	15.06	75.28	Trap/Vee/Rect Channel Flow,						
						Bot.W=4.00' D=1.00' Z= 1.0 '/' Top.W=6.00'						
						n= 0.030						
2.9	40	4 To	otal									

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Summary for Subcatchment 79S: WS 17A

Runoff = 3.34 cfs @ 12.03 hrs, Volume= 0.194 af, Depth= 0.72"

	Area	(ac) (CN D	escription								
			98 U	Untreated existing impervious, HSG A								
		000		Untreated existing impervious, HSG C								
	0.	000	98 Untreated existing impervious, HSG D									
	0.	000	98 Existing impervious to be treated as offset, HSG D									
	0.	000	30 E	xisting mea	dow, non-gra	azed, HSG A						
	0.	000	71 E	xisting mea	dow, non-gra	azed, HSG C						
	0.	000	78 E	kisting mea	dow, non-gra	azed, HSG D						
		000			ds, Good, H							
		000			ds, Good, H							
		035			ds, Good, H							
		000			oods, Good,							
		000			oods, Good,							
		780				pe treated, HSG C						
		000				pe treated, HSG D						
		039				ervious, HSG C						
	0.000 98 Untreated proposed impervious, HSG D											
	0.000 71 Proposed developed meadow, non-grazed, HSG C											
	0.000 78 Proposed developed meadow, non-grazed, HSG D											
		761				adow to be treated, HSG C						
		248				adow to be treated, HSG D						
		349			eadow, ski tra							
		000			adow, ski tra							
		000			adow, ski lif							
_		000			adow, ski lif	t, HSG D						
		212		eighted Av	•							
		393		1.50% Perv								
	0.	819	25	5.50% Impe	rvious Area							
	То	Longth	Clar	. Volocit	. Consoit.	Description						
	Tc (min)	Length (feet)				Description						
_					, , ,	Chaet Flaw						
	6.3	73	0.120	0.19	9	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40"						
	1.8	94	0.120	0.87	7							
	1.0	94	0.120	0.6	•	Shallow Concentrated Flow,						
	2.4	268	0.070	00 1.8	5	Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,						
	۷.4	200	0.070	1.00	,	Short Grass Pasture Kv= 7.0 fps						
_	10.5	435	Total			511011 G1400 1 401410 11V- 1.0 1pg						
	10.0	400	iolai									

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Summary for Subcatchment 80S: WS 17B

Runoff = 3.79 cfs @ 11.95 hrs, Volume= 0.170 af, Depth= 0.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 2-Year Rainfall=2.40"

Area	(ac)	CN De	scription						
0.	.000	98 Ur	treated exis	ting imperv	rious, HSG A				
0.	.000	98 Ur	Jntreated existing impervious, HSG C						
0.	.000	98 Ur	Intreated existing impervious, HSG D						
0.	.000	98 Ex	isting imper	vious to be	treated as offset, HSG D				
0.	.000	30 Ex	isting mead	ow, non-gra	azed, HSG A				
0.	.000	71 Ex	isting mead	ow, non-gra	azed, HSG C				
0.	.000		isting mead	ow, non-gra	azed, HSG D				
	.000		isting Wood						
	.001		isting Wood						
	.000		isting Wood	s, Good, H	SG D				
	.000		oposed Woo	ods, Good,	HSG C				
	.000		oposed Woo						
	.843				e treated, HSG C				
	.055				oe treated, HSG D				
	.000				rvious, HSG C				
	.000				rvious, HSG D				
	0.000 71 Proposed developed meadow, non-grazed, HSG C								
	0.000 78 Proposed developed meadow, non-grazed, HSG D								
	1.441 71 Proposed developed meadow to be treated, HSG C								
	.006		•	•	adow to be treated, HSG D				
	.000		oposed mea						
	.000		oposed mea						
	.000		oposed mea						
	.000		oposed mea		t, HSG D				
	.346		eighted Ave	•					
	.448	_	.72% Pervio						
0.	.898	38	.28% Imper	vious Area					
_		. 01			B				
Tc	Lengt			Capacity	Description				
(min)_	(feet	, , ,		(cfs)					
0.7	100	0.120	0 2.44		Sheet Flow,				
					Smooth surfaces n= 0.011 P2= 2.40"				
0.1	40	6 0.120	0 7.03		Shallow Concentrated Flow,				
					Paved Kv= 20.3 fps				
3.5	1,12	7 0.120	5.43	16.30	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.069 Riprap, 6-inch				
4.2	4 07	O T-+-1							

4.3 1,273 Total

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Summary for Subcatchment 81S: WS 17C

Runoff = 0.95 cfs @ 12.10 hrs, Volume= 0.069 af, Depth= 0.63"

Area	(ac)	CN	Desc	ription						
0.	000	98	Untre	Untreated existing impervious, HSG A						
0.	000	98	Untre	Jntreated existing impervious, HSG C						
0.	000	98	Untre	Untreated existing impervious, HSG D						
0.	000	98 Existing impervious to be treated as offset, HSG D								
0.	000	30	Exist	ing meado	w, non-gra	azed, HSG A				
0.	000	71	Exist	ing meado	ow, non-gra	azed, HSG C				
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D				
	000	30			s, Good, H					
	298	70			s, Good, H					
0.	000	77	Exist	ing Woods	s, Good, H	SG D				
	000	70			ds, Good,					
	000	77			ds, Good,					
	000	98				e treated, HSG C				
	000	98				e treated, HSG D				
	264	98				rvious, HSG C				
	0.000 98 Untreated proposed impervious, HSG D									
	0.746 71 Proposed developed meadow, non-grazed, HSG C									
	0.000 78 Proposed developed meadow, non-grazed, HSG D									
	0.000 71 Proposed developed meadow to be treated, HSG C									
	000	78				adow to be treated, HSG D				
	000	71			dow, ski tra					
	000	78			dow, ski tra					
	000	71			dow, ski lift					
	000	78			dow, ski lift	t, HSG D				
	308	76		hted Aver						
	044			2% Pervio						
0.	264		20.18	8% Imperv	vious Area					
Тс	Lengt	·h	Slope	Velocity	Capacity	Description				
(min)	(fee		(ft/ft)	(ft/sec)	(cfs)	Description				
10.8).2000	0.09	(0.0)	Sheet Flow,				
10.0	Ū		.2000	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"				
4.7	31	6 0	.2000	1.12		Shallow Concentrated Flow,				
	٥.	-	000	2		Forest w/Heavy Litter Kv= 2.5 fps				
0.5	7	6 0	.1300	2.52		Shallow Concentrated Flow,				
0.3	•	. •				Short Grass Pasture Kv= 7.0 fps				
16.0	44	8 T	otal							

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Summary for Subcatchment 82S: WS 17D

Runoff = 1.17 cfs @ 12.08 hrs, Volume= 0.080 af, Depth= 0.72"

Area	(ac)	CN	Desc	cription							
0.	.000	98	Untre	Untreated existing impervious, HSG A							
0.	.000	98	Untre	Untreated existing impervious, HSG C							
0.	.000	98	Untre	eated exist	ting impervi	ious, HSG D					
0.	.000	98	Exist	ting imper\	vious to be	treated as offset, HSG D					
0.	.000	30	Exist	ting meado	w, non-gra	azed, HSG A					
0.	.000	71	Exist	ting meado	w, non-gra	azed, HSG C					
	.000	78				azed, HSG D					
	.000	30			s, Good, H						
	.000	70			s, Good, H						
	.000	77			s, Good, H						
	.000	70			ds, Good, I						
	.000	77			ds, Good, I						
	.000	98				e treated, HSG C					
	.000	98				e treated, HSG D					
	.346	98				rvious, HSG C					
	.003	98				rvious, HSG D					
	.974	71				dow, non-grazed, HSG C					
	.005	78				dow, non-grazed, HSG D					
	.000	71				dow to be treated, HSG C					
	.000	78				dow to be treated, HSG D					
	.000	71			dow, ski tra						
	.000	78			dow, ski tra						
	.000	71			dow, ski lift						
	.000	78			dow, ski lift	I, HSG D					
	.328	78		hted Aver							
	.979			2% Pervio							
0.	.349		26.2	8% Imperv	rious Area						
_						D 1.0					
Tc	Lengt		Slope	Velocity	Capacity	Description					
(min)	(feet		(ft/ft)	(ft/sec)	(cfs)						
10.9	49	9 0.	1500	0.07		Sheet Flow,					
		_				Woods: Dense underbrush n= 0.800 P2= 2.40"					
1.6	9:	5 0.	1500	0.97		Shallow Concentrated Flow,					
	4 -					Forest w/Heavy Litter Kv= 2.5 fps					
2.4	15	5 0.	1800	1.06		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
14.9	29	9 Tc	otal								

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Summary for Subcatchment 83S: WS 17E

Runoff = 6.56 cfs @ 11.98 hrs, Volume= 0.317 af, Depth= 1.10"

Area	(ac) (CN De	scription							
0.	000	98 Unt	reated exis	ting imperv	rious, HSG A					
0.	000	98 Unt	Jntreated existing impervious, HSG C							
0.	000	98 Unt	reated exis	ting imperv	vious, HSG D					
0.	000		sting imper	vious to be	treated as offset, HSG D					
0.	000	30 Exi	sting mead	ow, non-gra	azed, HSG A					
	000				azed, HSG C					
					azed, HSG D					
0.	000	30 Exi	sting Wood	s, Good, H	SG A					
0.	000	70 Exi	sting Wood	s, Good, H	SG C					
			sting Wood							
		70 Pro	posed Woo	ds, Good,	HSG C					
0.	036	77 Pro	posed Woo	ds, Good,	HSG D					
0.	414	98 Pro	posed impe	ervious to b	oe treated, HSG C					
					oe treated, HSG D					
					rvious, HSG C					
	000		•		adow, non-grazed, HSG C					
	000		•		adow, non-grazed, HSG D					
	340				adow to be treated, HSG C					
	819				adow to be treated, HSG D					
	000		posed mea	,	·					
	004		posed mea							
	000		posed mea							
	000		posed mea		t, HSG D					
			ighted Aver							
	199		65% Pervio							
1.:	256	36.	35% Imper	vious Area						
Тс	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)			(cfs)	2 - 2 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					
1.2	100	0.0300	1.40	, ,	Sheet Flow,					
					Smooth surfaces n= 0.011 P2= 2.40"					
5.1	1,621	0.1000	5.30	21.20	Trap/Vee/Rect Channel Flow,					
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'					
					n= 0.069 Riprap, 6-inch					
6.3	1,721	Total								

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Summary for Subcatchment 84S: WS 17F

Runoff = 4.43 cfs @ 12.18 hrs, Volume= 0.375 af, Depth= 0.98"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 2-Year Rainfall=2.40"

Area	(ac) (CN Des	cription							
0.	000	98 Unt	reated exis	ting imperv	rious, HSG A					
0.	000	98 Unt	Untreated existing impervious, HSG C							
0.	000	98 Unt	reated exis	ting imperv	rious, HSG D					
0.	000	98 Exis	sting imper	vious to be	treated as offset, HSG D					
0.			sting mead	ow, non-gra	azed, HSG A					
0.	000	71 Exis	sting mead	ow, non-gra	azed, HSG C					
					azed, HSG D					
				s, Good, H						
				s, Good, H						
				s, Good, H						
				ds, Good,						
				ds, Good,						
					e treated, HSG C					
					e treated, HSG D					
					rvious, HSG C					
					rvious, HSG D					
					ndow, non-grazed, HSG C					
					ndow, non-grazed, HSG D					
				•	ndow to be treated, HSG C					
					ndow to be treated, HSG D					
				dow, ski tra	·					
				dow, ski tra	·					
				dow, ski lift						
0.			posed mea	dow, ski lift	t, HSG D					
4.	587		ghted Aver							
	370	_	17% Pervio							
1.	217	26.	53% Imper	/ious Area						
_										
Tc	Length			Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.9	44	0.1200	0.07		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
12.6	683	0.1300	0.90		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
23.5	727	Total								

Summary for Subcatchment 85S: WS 18

Runoff = 0.27 cfs @ 11.95 hrs, Volume= 0.012 af, Depth= 0.77"

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Area	(ac)	CN	Desc	cription						
0.	000	98	Untre	eated exis	ting imperv	ious, HSG A				
0.	000	98	Untreated existing impervious, HSG C							
0.	021	98				ious, HSG D				
0.	000	98	Exist	ing imper	ious to be	treated as offset, HSG D				
0.	000	30	Exist	ing meado	ow, non-gra	azed, HSG A				
0.	000	71	Exist	ting meado	ow, non-gra	azed, HSG C				
0.	000	78	Exist	ting meado	ow, non-gra	azed, HSG D				
0.	000	30	Exist	ting Woods	s, Good, H	SG A				
0.	000	70	Exist	ting Woods	s, Good, H	SG C				
0.	165	77	Exist	ing Woods	s, Good, H	SG D				
0.	000	70	Prop	osed Woo	ds, Good, I	HSG C				
0.	000	77			ds, Good, I					
0.	000	98	Prop	osed impe	rvious to b	e treated, HSG C				
0.	000	98	Prop	osed impe	rvious to b	e treated, HSG D				
0.	000	98	Untre	eated prop	osed impe	rvious, HSG C				
	000	98	Untre	eated prop	osed impe	rvious, HSG D				
0.	000	71	Prop	osed deve	loped mea	dow, non-grazed, HSG C				
	000	78				dow, non-grazed, HSG D				
	000	71	Prop	osed deve	loped mea	dow to be treated, HSG C				
	000	78	Prop	osed deve	loped mea	dow to be treated, HSG D				
	000	71			dow, ski tra					
	000	78	Prop	osed mea	dow, ski tra	ail, HSG D				
	000	71			dow, ski lift					
0.	000	78	Prop	osed mea	dow, ski lift	t, HSG D				
0.	186	79	Weig	hted Aver	age					
	165		88.7	1% Pervio	us Area					
0.	021		11.2	9% Imperv	ious Area					
т.	1	. 0		V . I !4	0 :'6	December 1				
Tc	Length		lope	Velocity	Capacity	Description				
<u>(min)</u>	(feet		ft/ft)	(ft/sec)	(cfs)					
4.1	65	0.2	700	0.26		Sheet Flow,				
0.4	0.0		400	40.04	40.04	Grass: Dense n= 0.240 P2= 2.40"				
0.1	92	2 0.1	100	16.31	48.94	Trap/Vee/Rect Channel Flow,				
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
	4 ==	, , ,				n= 0.022				
4.2	157	7 Tot	tal							

Summary for Subcatchment 86S: WS 19

Runoff = 0.56 cfs @ 12.05 hrs, Volume= 0.034 af, Depth= 0.63"

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Area	(ac)	CN	Desc	cription							
0.	000	98	Untre	eated exis	ting imperv	ious, HSG A					
0.	000	98	Untre	Jntreated existing impervious, HSG C							
0.	800	98	Untre	Intreated existing impervious, HSG D							
0.	000	98	Exist	ing imper	ious to be	treated as offset, HSG D					
0.	000	30	Exist	ing meado	ow, non-gra	azed, HSG A					
0.	000	71	Exist	ing meado	ow, non-gra	azed, HSG C					
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D					
0.	000	30	Exist	ing Woods	s, Good, H	SG A					
0.	060	70	Exist	ing Woods	s, Good, H	SG C					
0.	313	77	Exist	ing Woods	s, Good, H	SG D					
0.	000	70	Prop	osed Woo	ds, Good,	HSG C					
0.	000	77	Prop	osed Woo	ds, Good,	HSG D					
0.	000	98	Prop	osed impe	ervious to b	e treated, HSG C					
0.	000	98	Prop	osed impe	ervious to b	e treated, HSG D					
0.	016	98	Untre	eated prop	osed impe	rvious, HSG C					
0.	000	98	Untre	eated prop	osed impe	rvious, HSG D					
0.	116	71	Prop	osed deve	loped mea	dow, non-grazed, HSG C					
	135	78				dow, non-grazed, HSG D					
	000	71				dow to be treated, HSG C					
	000	78				dow to be treated, HSG D					
	000	71			dow, ski tra						
	000	78			dow, ski tra						
	000	71			dow, ski lift						
0.	000	78	Prop	<u>osed mea</u>	dow, ski lift	t, HSG D					
0.	648	76	Weig	hted Aver	age						
0.	624		96.3	0% Pervio	us Area						
0.	024		3.70	% Impervi	ous Area						
Tc	Length		lope	Velocity	Capacity	Description					
(min)	(feet) ((ft/ft)	(ft/sec)	(cfs)						
7.2	100	0.1	1600	0.23		Sheet Flow,					
						Grass: Dense n= 0.240 P2= 2.40"					
4.2	253	3 0.1	1600	1.00		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
0.1	102	2 0.0	0600	12.05	36.14	Trap/Vee/Rect Channel Flow,					
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
						n= 0.022					
11.5	455	5 То	tal								

Summary for Subcatchment 87S: WS 20

Runoff = 1.68 cfs @ 11.98 hrs, Volume= 0.082 af, Depth= 0.72"

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Area	(ac) C	N Des	cription								
0.	.000	98 Untr	Jntreated existing impervious, HSG A								
			Jntreated existing impervious, HSG C								
			Intreated existing impervious, HSG D								
			Existing impervious to be treated as offset, HSG D								
					azed, HSG A						
					azed, HSG C						
					azed, HSG D						
				s, Good, H							
				s, Good, H							
				s, Good, H							
				ods, Good,							
				ds, Good,							
					be treated, HSG C						
			•		pe treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					adow, non-grazed, HSG C						
				•	adow, non-grazed, HSG D						
0.	.000				adow to be treated, HSG C						
0.	.000	78 Prop	osed deve	eloped mea	adow to be treated, HSG D						
0.	.000	71 Prop	osed mea	dow, ski tra	ail, HSG C						
0.	.000	78 Prop	osed mea	idow, ski tra	ail, HSG D						
		71 Prop	osed mea	idow, ski lif	t, HSG C						
0.	.000	78 Prop	osed mea	dow, ski lif	t, HSG D						
1.	.358	78 Wei	ghted Aver	rage							
1.	.281	94.3	3% Pervio	us Area							
0.	.077	5.67	% Impervi	ous Area							
_				_							
Tc	Length	Slope	Velocity	Capacity	Description						
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)							
0.4	34	0.0600	1.49		Sheet Flow,						
					Smooth surfaces n= 0.011 P2= 2.40"						
0.1	18	0.3900	4.37		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
2.8	166	0.1600	1.00		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
2.6	144	0.1400	0.94		Shallow Concentrated Flow,						
	<u>.</u> .		=	a	Forest w/Heavy Litter Kv= 2.5 fps						
0.1	64	0.0300	8.52	25.56							
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.022						
6.0	426	Total									

Summary for Subcatchment 88S: WS 20A

Runoff = 1.18 cfs @ 11.95 hrs, Volume= 0.053 af, Depth= 0.55"

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Area	(ac) C	N Des	cription							
0.	.000	98 Unti	reated exis	ting imperv	rious, HSG A					
0.	.000	98 Unti	Untreated existing impervious, HSG C							
0.	.000				rious, HSG D					
0.	.000	98 Exis	sting imper	vious to be	treated as offset, HSG D					
0.	.000	30 Exis	sting mead	ow, non-gra	azed, HSG A					
0.	.000				azed, HSG C					
0.	.000	78 Exis	sting mead	ow, non-gra	azed, HSG D					
0.	.000	30 Exis	sting Wood	s, Good, H	SG A					
0.	.287	70 Exis	ting Wood	s, Good, H	SG C					
0.	.000	77 Exis	ting Wood	s, Good, H	SG D					
0.	.000	70 Proj	oosed Woo	ds, Good,	HSG C					
		77 Proj	oosed Woo	ds, Good,	HSG D					
					e treated, HSG C					
					e treated, HSG D					
					rvious, HSG C					
					rvious, HSG D					
					dow, non-grazed, HSG C					
					dow, non-grazed, HSG D					
					adow to be treated, HSG C					
					adow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lift						
				dow, ski lift	I, NOG D					
			ghted Aver							
	.013		33% Pervio							
U.	.147	12.0	37% Imper	llous Area						
Тс	Length	Slope	Velocity	Canacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	Capacity (cfs)	Description					
0.7				(015)	Chaot Flour					
0.7	100	0.1000	2.27		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.40"					
0.1	47	0.1000	6.42							
0.1	47	0.1000	0.42		Shallow Concentrated Flow, Paved Kv= 20.3 fps					
0.1	35	0.4300	4.59		Shallow Concentrated Flow,					
0.1	33	0.4300	4.59		Short Grass Pasture Kv= 7.0 fps					
1.9	116	0.1700	1.03		Shallow Concentrated Flow,					
1.9	110	0.1700	1.03		Forest w/Heavy Litter Kv= 2.5 fps					
0.5	32	0.1900	1.09		Shallow Concentrated Flow,					
0.5	52	0.1300	1.03		Forest w/Heavy Litter Kv= 2.5 fps					
3.3	330	Total			1 5/550 William Little 100 Ipo					
5.5	550	iotai								

Summary for Subcatchment 89S: WS 20B

Runoff = 0.62 cfs @ 11.98 hrs, Volume= 0.031 af, Depth= 0.51"

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Area	(ac)	CN D	escription							
0.	000	98 Ui	ntreated exis	ting imperv	rious, HSG A					
0.	000	98 Uı	Untreated existing impervious, HSG C							
0.	000	98 Uı	Untreated existing impervious, HSG D							
0.	000	98 Ex	disting imper	vious to be	treated as offset, HSG D					
0.	000	30 Ex	isting mead	ow, non-gra	azed, HSG A					
0.	000	71 Ex	isting mead	ow, non-gra	azed, HSG C					
0.	000		isting mead	ow, non-gra	azed, HSG D					
	000		isting Wood							
	026		isting Wood							
0.	000		isting Wood	s, Good, H	SG D					
	098		oposed Woo							
	000		oposed Woo							
	000				pe treated, HSG C					
	000				pe treated, HSG D					
	054			•	ervious, HSG C					
	000				ervious, HSG D					
	182				adow, non-grazed, HSG C					
	000		Proposed developed meadow, non-grazed, HSG D							
	000				adow to be treated, HSG C					
	000		•	•	adow to be treated, HSG D					
	370		oposed mea							
	000		oposed mea							
	000		oposed mea							
	000		oposed mea		t, HSG D					
	730		eighted Ave	•						
	676	_	60% Pervio							
0.	054	7.	40% Impervi	ous Area						
Тс	Length	Slop	e Velocity	Capacity	Description					
(min)	(feet)			(cfs)	1					
5.3	76		, , , , , , , , , , , , , , , , , , , 	, ,	Sheet Flow,					
					Grass: Dense n= 0.240 P2= 2.40"					
0.2	140	0.130	0 13.74	228.43	Trap/Vee/Rect Channel Flow,					
					Bot.W=3.00' D=3.50' Z= 1.0 & 0.0 '/' Top.W=6.50'					
					n= 0.050 Mountain streams w/large boulders					
5.5	216	Total								

Summary for Subcatchment 90S: WS 20C

Runoff = 3.94 cfs @ 12.14 hrs, Volume= 0.316 af, Depth= 0.72"

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Area	(ac)	CN	Desc	ription							
0.	000	98	Untre	eated exis	ting imperv	ious, HSG A					
0.	000	98	Untre	Jntreated existing impervious, HSG C							
0.	000	98	Untre	Intreated existing impervious, HSG D							
0.	000	98	Exist	ing imper	vious to be	treated as offset, HSG D					
0.	000	30	Exist	ing meado	ow, non-gra	azed, HSG A					
	000	71				azed, HSG C					
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D					
	000	30	Exist	ing Woods	s, Good, H	SG A					
	487	70			s, Good, H						
	000	77			s, Good, H						
	117	70			ds, Good,						
	000	77			ds, Good,						
	000	98				e treated, HSG C					
	000	98				e treated, HSG D					
	368	98				rvious, HSG C					
	000	98				rvious, HSG D					
	264	71				dow, non-grazed, HSG C					
	000	78				dow, non-grazed, HSG D					
	000	71				dow to be treated, HSG C					
	000	78				dow to be treated, HSG D					
	001	71			dow, ski tra						
	000	78			dow, ski tra						
	000	71			dow, ski lift						
	000	78			dow, ski lift	t, HSG D					
	237	78		jhted Aver	•						
	869			3% Pervio							
1.	368		26.12	2% Imperv	/ious Area						
Tc	Lengt		Slope	Velocity	Capacity	Description					
(min)	(fee		(ft/ft)	(ft/sec)	(cfs)						
10.8	5	6 0.	.2000	0.09		Sheet Flow,					
						Woods: Dense underbrush n= 0.800 P2= 2.40"					
8.7	58	2 0.	.2000	1.12		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
0.3	11	6 0.	.1400	5.87	17.60	Trap/Vee/Rect Channel Flow,					
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
						n= 0.069 Riprap, 6-inch					
19.8	75	4 T	otal								

Summary for Subcatchment 91S: WS 20D

Runoff = 7.77 cfs @ 12.32 hrs, Volume= 0.913 af, Depth= 0.63"

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Area	(ac) C	N Des	cription								
0.	000 9	98 Untr	eated exis	ting imperv	rious, HSG A						
0.	002		Intreated existing impervious, HSG C								
0.	000	98 Untr	Intreated existing impervious, HSG D								
0.	000	98 Exis	existing impervious to be treated as offset, HSG D								
0.	000	30 Exis	ting meado	ow, non-gra	azed, HSG A						
		71 Exis	ting meado	ow, non-gra	azed, HSG C						
					azed, HSG D						
			•	s, Good, H							
				s, Good, H							
			•	s, Good, H							
				ds, Good,							
				ds, Good,							
			•		e treated, HSG C						
			•		treated, HSG D						
					rvious, HSG C						
					rvious, HSG D idow, non-grazed, HSG C						
				•							
			Proposed developed meadow to be treated, HSG D								
			Proposed developed meadow to be treated, HSG C Proposed developed meadow to be treated, HSG D								
			Proposed meadow, ski trail, HSG C								
			Proposed meadow, ski trail, HSG D								
				dow, ski lift							
0.	000			dow, ski lift							
17.	266	76 Weig	hted Aver	age							
15.	478	89.6	4% Pervio	us Area							
1.	788	10.3	6% Imperv	∕ious Area							
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
9.5	100	0.0800	0.18		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
2.8	470	0.1600	2.80		Shallow Concentrated Flow,						
5.0	400	0.0000	4 47		Short Grass Pasture Kv= 7.0 fps						
5.8	408	0.2200	1.17		Shallow Concentrated Flow,						
1.0	202	0.4200	0.50		Forest w/Heavy Litter Kv= 2.5 fps						
1.9	282	0.1300	2.52		Shallow Concentrated Flow,						
11.0	593	0.1300	0.90		Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,						
11.0	593	0.1300	0.90		Forest w/Heavy Litter Kv= 2.5 fps						
2.2	511	0.0600	3.84	11.52	Trap/Vee/Rect Channel Flow,						
۷.۷	511	0.0000	J.U 4	11.02	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
33.2	2,364	Total			o.ooo ruprap, o mon						
00.2	∠,504	iotai									

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Summary for Subcatchment 92S: WS 21

Runoff = 0.43 cfs @ 12.06 hrs, Volume= 0.027 af, Depth= 0.72"

Area	(ac) (CN Des	cription							
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A					
0.	000		Untreated existing impervious, HSG C							
0.	020	98 Untr	Intreated existing impervious, HSG D							
0.	000				treated as offset, HSG D					
0.	000	30 Exis	ting meado	ow, non-gra	azed, HSG A					
0.			ting meado	ow, non-gra	azed, HSG C					
0.			ting meado	ow, non-gra	azed, HSG D					
			•	s, Good, H						
				s, Good, H						
				s, Good, H						
				ds, Good,						
				ds, Good,						
					e treated, HSG C					
					e treated, HSG D					
					rvious, HSG C					
					rvious, HSG D					
					adow, non-grazed, HSG C					
					adow, non-grazed, HSG D					
				•	adow to be treated, HSG C					
					adow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lift						
				dow, ski lif	I, H3G D					
			ghted Aver							
	433		8% Pervio							
0.	020	4.42	!% Impervi	ous Area						
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Description					
11.0	46		0.07	(013)	Chaot Flour					
11.0	40	0.1300	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.40"					
1.5	82	0.1300	0.90		Shallow Concentrated Flow,					
1.5	02	0.1300	0.90		Forest w/Heavy Litter Kv= 2.5 fps					
0.3	138	0.0300	8.52	25.56	Trap/Vee/Rect Channel Flow,					
0.5	130	0.0000	0.02	20.00	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022					
12.8	266	Total								

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Summary for Subcatchment 93S: WS 21A

Runoff = 7.39 cfs @ 11.96 hrs, Volume= 0.344 af, Depth= 0.98"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.030	70	Existing Woods, Good, HSG C
0.334	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.062	98	Proposed impervious to be treated, HSG C
1.172	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.149	71	Proposed developed meadow to be treated, HSG C
2.457	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.204	83	Weighted Average
2.970		70.65% Pervious Area
1.234		29.35% Impervious Area

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	Tc	Length	Slope	Velocity	Capacity	Description
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	·
_	0.8	47	0.0200	1.02		Sheet Flow,
						Smooth surfaces n= 0.011 P2= 2.40"
	1.4	366	0.0800	4.44	13.31	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.069 Riprap, 6-inch
	0.1	62	0.0100	7.20	22.62	Pipe Channel,
						24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'
						n= 0.013 Corrugated PE, smooth interior
	1.5	105	0.2300	1.20		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.9	170	0.0400	3.14	9.41	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
				10.10		n= 0.069 Riprap, 6-inch
	0.1	50	0.0500	16.10	50.59	Pipe Channel,
						24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'
	0.0	440	0.4000	F 0F	40.00	n= 0.013 Corrugated PE, smooth interior
	0.3	110	0.1300	5.65	16.96	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_						n= 0.069 Riprap, 6-inch
	5.1	910	Total			

Summary for Subcatchment 94S: WS 21B

Runoff = 2.80 cfs @ 12.09 hrs, Volume= 0.194 af, Depth= 0.72"

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Area	(ac)	CN Des	cription						
	.000			tina imperv	rious, HSG A				
0.000 98 Untreated existing impervious, HSG C									
0.000 98 Untreated existing impervious, HSG D									
0.000 98 Existing impervious to be treated as offset, HSG D									
0.	.000	30 Exis	sting mead	ow, non-gra	azed, HSG A				
0.	.000	71 Exis	sting mead	ow, non-gra	azed, HSG C				
0.	.000	78 Exis	sting mead	ow, non-gra	azed, HSG D				
0.	.000	30 Exis	sting Wood	s, Good, H	SG A				
0.	.413	70 Exis	sting Wood	s, Good, H	SG C				
0.	.012	77 Exis	sting Wood	s, Good, H	SG D				
0.	.242	70 Pro	posed Woo	ds, Good,	HSG C				
	.000			ds, Good,					
	.000				e treated, HSG C				
	.000				e treated, HSG D				
	.792				rvious, HSG C				
	.000				rvious, HSG D				
	.049				dow, non-grazed, HSG C				
	.118				dow, non-grazed, HSG D				
	.000				dow to be treated, HSG C				
	.000				idow to be treated, HSG D				
	.591			dow, ski tra					
	.000			dow, ski tra					
	.000			dow, ski lift					
	.000			dow, ski lift	I, HSG D				
	.217		ghted Ave						
	425		38% Pervio						
0.	792	24.6	62% Imper	/lous Area					
Tc	Length	n Slope	Velocity	Capacity	Description				
(min)	(feet		(ft/sec)	(cfs)	Description				
8.3	100			(0.0)	Sheet Flow,				
0.0	100	0.1100	0.20		Grass: Dense n= 0.240 P2= 2.40"				
1.2	161	0.1100	2.32		Shallow Concentrated Flow,				
		0.1100	2.02		Short Grass Pasture Kv= 7.0 fps				
5.8	370	0.1800	1.06		Shallow Concentrated Flow,				
0.3		21.000			Forest w/Heavy Litter Kv= 2.5 fps				
15.3	631	Total			•				

Summary for Subcatchment 95S: WS 21C

Runoff = 5.94 cfs @ 12.71 hrs, Volume= 1.129 af, Depth= 0.55"

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_	Area (ac)	CN	Description
	0.000	98	Untreated existing impervious, HSG A
	1.021	98	Untreated existing impervious, HSG C
	0.399	98	Untreated existing impervious, HSG D
	0.000	98	Existing impervious to be treated as offset, HSG D
	0.000	30	Existing meadow, non-grazed, HSG A
	3.513	71	Existing meadow, non-grazed, HSG C
	3.194	78	Existing meadow, non-grazed, HSG D
	0.000	30	Existing Woods, Good, HSG A
	11.552	70	Existing Woods, Good, HSG C
	4.190	77	Existing Woods, Good, HSG D
	0.457	70	Proposed Woods, Good, HSG C
	0.000	77	Proposed Woods, Good, HSG D
	0.000	98	Proposed impervious to be treated, HSG C
	0.000	98	Proposed impervious to be treated, HSG D
	0.027	98	Untreated proposed impervious, HSG C
	0.000	98	Untreated proposed impervious, HSG D
	0.156	71	Proposed developed meadow, non-grazed, HSG C
	0.003	78	Proposed developed meadow, non-grazed, HSG D
	0.000	71	Proposed developed meadow to be treated, HSG C
	0.000	78	Proposed developed meadow to be treated, HSG D
	0.001	71	Proposed meadow, ski trail, HSG C
	0.000	78	Proposed meadow, ski trail, HSG D
	0.000	71	Proposed meadow, ski lift, HSG C
_	0.000	78	Proposed meadow, ski lift, HSG D
	24.513	74	Weighted Average
	23.066		94.10% Pervious Area
	1.447		5.90% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23	· /	Sheet Flow,
					Grass: Dense n= 0.240 P2= 2.40"
0.1	17	0.1500	2.71		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
2.2	146	0.1900	1.09		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.2	259	0.3000	1.37		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.4	218	0.1100	0.83		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.3	279	0.1900	1.09		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.3	186	0.1400	0.94		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.1	90	0.2900	1.35		Shallow Concentrated Flow,
	470	0.4000	0.70		Forest w/Heavy Litter Kv= 2.5 fps
3.6	173	0.1000	0.79		Shallow Concentrated Flow,
0.0	004	0.4400	0.04		Forest w/Heavy Litter Kv= 2.5 fps
3.6	201	0.1400	0.94		Shallow Concentrated Flow,
4.0	256	0.4200	0.07		Forest w/Heavy Litter Kv= 2.5 fps
4.9	256	0.1200	0.87		Shallow Concentrated Flow,
4.9	195	0.0700	0.66		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
4.9	195	0.0700	0.00		Forest w/Heavy Litter Kv= 2.5 fps
1.7	80	0.1000	0.79		Shallow Concentrated Flow,
1.7	00	0.1000	0.13		Forest w/Heavy Litter Kv= 2.5 fps
7.0	334	0.1000	0.79		Shallow Concentrated Flow,
7.0	004	0.1000	0.70		Forest w/Heavy Litter Kv= 2.5 fps
3.5	187	0.1300	0.90		Shallow Concentrated Flow,
0.0	101	0.1000	0.00		Forest w/Heavy Litter Kv= 2.5 fps
1.9	139	0.2400	1.22		Shallow Concentrated Flow,
		0.2.00			Forest w/Heavy Litter Kv= 2.5 fps
2.1	133	0.1800	1.06		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.3	317	0.1600	19.24	692.62	Trap/Vee/Rect Channel Flow,
	-				Bot.W=9.00' D=3.00' Z= 1.0 '/' Top.W=15.00'
					n= 0.050 Mountain streams w/large boulders
59.5	3,310	Total			

Summary for Subcatchment 96S: WS 22

Runoff = 0.35 cfs @ 12.05 hrs, Volume= 0.021 af, Depth= 0.77"

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Area	(ac)	CN	Desc	ription						
0.	000	98	Untre	eated exist	ting imperv	ious, HSG A				
0.000 98 Untreated existing impervious, HSG C										
0.025 98 Untreated existing impervious, HSG D										
0.000 98 Existing impervious to be treated as offset, HSG D										
	000	30				azed, HSG A				
0.	000	71				azed, HSG C				
0.	000	78				azed, HSG D				
0.	000	30			s, Good, H					
0.	000	70			s, Good, H					
0.	284	77			s, Good, H					
0.	000	70	Prop	osed Woo	ds, Good, I	HSG C				
0.	000	77	Prop	osed Woo	ds, Good, I	HSG D				
0.	000	98	Prop	osed impe	rvious to b	e treated, HSG C				
0.	000	98	Prop	osed impe	rvious to b	e treated, HSG D				
0.	000	98	Untre	eated prop	osed impe	rvious, HSG C				
0.	000	98	Untre	eated prop	osed impe	rvious, HSG D				
0.	000	71	Prop	osed deve	loped mea	dow, non-grazed, HSG C				
0.	019	78	Prop	osed deve	loped mea	dow, non-grazed, HSG D				
0.	000	71	Prop	osed deve	loped mea	dow to be treated, HSG C				
0.	000	78	Prop	osed deve	loped mea	dow to be treated, HSG D				
0.	000	71	Prop	osed mea	dow, ski tra	ail, HSG C				
0.	000	78	Prop	osed mea	dow, ski tra	ail, HSG D				
0.	000	71	Prop	osed mea	dow, ski lift	t, HSG C				
0.	000	78	Prop	osed mea	dow, ski lift	t, HSG D				
0.	328	79	Weig	hted Aver	age					
0.	303		92.38	3% Pervio	us Area					
0.	025		7.629	% Impervi	ous Area					
				·						
Tc	Lengt	h :	Slope	Velocity	Capacity	Description				
(min)	(feet	t)	(ft/ft)	(ft/sec)	(cfs)					
10.8	5	0 0	.1600	0.08		Sheet Flow,				
						Woods: Dense underbrush n= 0.800 P2= 2.40"				
8.0	5	0 0	.1600	1.00		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
0.2	12	5 0	.0500	11.00	32.99	Trap/Vee/Rect Channel Flow,				
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
						n= 0.022				
11.8	22	5 T	otal							

Summary for Subcatchment 97S: WS 23

Runoff = 0.49 cfs @ 12.00 hrs, Volume= 0.025 af, Depth= 0.82"

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Area	(ac) C	N Des	cription							
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A					
0.000 98 Untreated existing impervious, HSG C										
0.039 98 Untreated existing impervious, HSG D										
0.	0.000 98 Existing impervious to be treated as offset, HSG D									
0.	000 3	30 Exis	ting meado	ow, non-gra	azed, HSG A					
0.	000	71 Exis	ting meado	ow, non-gra	azed, HSG C					
0.	000	78 Exis	ting meado	ow, non-gra	azed, HSG D					
0.	000	30 Exis	ting Wood	s, Good, H	SG A					
0.	000	70 Exis	ting Wood	s, Good, H	SG C					
0.	174	77 Exis	ting Wood	s, Good, H	SG D					
0.	000	70 Prop	osed Woo	ds, Good,	HSG C					
0.	000	77 Prop	osed Woo	ds, Good,	HSG D					
0.	000	98 Prop	osed impe	ervious to b	e treated, HSG C					
0.	000	98 Prop	osed impe	ervious to b	e treated, HSG D					
0.			eated prop	osed impe	rvious, HSG C					
0.	000	98 Untr	eated prop	osed impe	rvious, HSG D					
0.	000	71 Prop	osed deve	loped mea	ndow, non-grazed, HSG C					
					ndow, non-grazed, HSG D					
0.					ndow to be treated, HSG C					
0.	000				ndow to be treated, HSG D					
				dow, ski tra	·					
				dow, ski tra	·					
				dow, ski lift						
0.	000	78 Prop	osed mea	dow, ski lift	t, HSG D					
0.	370	30 Wei	ghted Aver	age						
0.	331	89.4	6% Pervio	us Area						
0.	039	10.5	4% Imperv	ious Area						
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
7.6	100	0.1400	0.22		Sheet Flow,					
					Grass: Dense n= 0.240 P2= 2.40"					
0.6	102	0.1400	2.62		Shallow Concentrated Flow,					
					Short Grass Pasture Kv= 7.0 fps					
8.2	202	Total								

Summary for Subcatchment 98S: WS 23A

Runoff = 1.34 cfs @ 11.94 hrs, Volume= 0.057 af, Depth= 0.98"

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Area (ac)

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Alta	(ac)	OIN DE	scription							
0	.000	98 Un	treated exis	ting imperv	ious, HSG A					
0	.000	98 Un	treated exis	ting imperv	ious, HSG C					
0.000 98 Untreated existing impervious, HSG D										
0.000 98 Existing impervious to be treated as offset, HSG D										
0.000 30 Existing meadow, non-grazed, HSG A										
0.000 71 Existing meadow, non-grazed, HSG C										
	.000				azed, HSG D					
	.000		sting Wood							
	.000		sting Wood							
	.000		sting Wood							
	.000		posed Woo	, ,						
	.000		posed Woo							
	.000				e treated, HSG C					
	.159				e treated, HSG D					
	.000			•	rvious, HSG C					
	.000			•	rvious, HSG D					
	.000				dow, non-grazed, HSG C					
	.000				dow, non-grazed, HSG D					
	.000				dow to be treated, HSG C					
	.543				dow to be treated, HSG D					
	.000		posed mea							
	.000		posed mea							
	.000		posed mea							
	.000		posed mea		I, MSG D					
	.702		ighted Ave							
	.543		35% Pervio							
U	.159	22.	65% Imper	vious Area						
То	Longth	Clana	\/olooity	Canacity	Description					
Tc (min)	Length			Capacity	Description					
(min)	(feet)			(cfs)	Ohaat Flam					
1.3	19	0.4200	0.25		Sheet Flow,					
0.0	047	, 0,000		40.04	Grass: Dense n= 0.240 P2= 2.40"					
0.8	217	0.0800	4.44	13.31	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
0.7	0.0	0.0200	2.22	G GE	n= 0.069 Riprap, 6-inch					
0.7	89	0.0200	2.22	6.65	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.069 Riprap, 6-inch					
	205	Total			11- 0.000 Tapiap, 0-111011					
2.8	325	Total								

Summary for Subcatchment 99S: WS 23B

Runoff = 2.43 cfs @ 12.06 hrs, Volume= 0.152 af, Depth= 1.10"

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Alta	(ac)	<u> </u>	cription							
0	.000	98 Untr	eated exis	ting imperv	ious, HSG A					
0	.000				ious, HSG C					
0	.000	98 Untr	eated exis	ting imperv	ious, HSG D					
0.000 98 Existing impervious to be treated as offset, HSG D										
0.000 30 Existing meadow, non-grazed, HSG A										
0	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C					
		78 Exis	ting mead	ow, non-gra	azed, HSG D					
0	.000	30 Exis	ting Wood	s, Good, H	SG A					
		70 Exis	ting Wood	s, Good, H	SG C					
			ting Wood	s, Good, H	SG D					
0	.000	70 Prop	osed Woo	ods, Good,	HSG C					
				ods, Good,						
			oosed impe	ervious to b	e treated, HSG C					
			•		e treated, HSG D					
					rvious, HSG C					
					rvious, HSG D					
					dow, non-grazed, HSG C					
					dow, non-grazed, HSG D					
					dow to be treated, HSG C					
				•	dow to be treated, HSG D					
				idow, ski tra						
				idow, ski tra						
				idow, ski lift						
		-		idow, ski lift	., НSG D					
			ghted Aver							
	.045		4% Pervio							
U	.610	36.8	66% imper	vious Area						
То	Longth	Clana	\/alaaity	Canacity	Description					
Tc (min)	Length		Velocity	Capacity	Description					
(min)	(feet)		(ft/sec)	(cfs)	Olegat Flam					
7.2	100	0.1600	0.23		Sheet Flow,					
0.4	20	0.4600	4.00		Grass: Dense n= 0.240 P2= 2.40"					
0.4	22	0.1600	1.00		Shallow Concentrated Flow,					
2.1	170	0.4400	0.04		Forest w/Heavy Litter Kv= 2.5 fps					
3.1	173	0.1400	0.94		Shallow Concentrated Flow,					
2.4	166	0.4200	0.00		Forest w/Heavy Litter Kv= 2.5 fps					
3.1	166	0.1300	0.90		Shallow Concentrated Flow,					
40.0	101	Takal			Forest w/Heavy Litter Kv= 2.5 fps					
13.8	461	Total								

Summary for Subcatchment 100S: WS 24

Runoff = 10.49 cfs @ 12.14 hrs, Volume= 0.831 af, Depth= 0.72"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.506	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.568	71	Existing meadow, non-grazed, HSG C
6.423	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.073	70	Existing Woods, Good, HSG C
5.770	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.038	98	Untreated proposed impervious, HSG D
0.017	71	Proposed developed meadow, non-grazed, HSG C
0.357	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.027	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
13.779	78	Weighted Average
13.235		96.05% Pervious Area
0.544		3.95% Impervious Area
		T .

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100		0.23	· /	Sheet Flow,
					Grass: Dense n= 0.240 P2= 2.40"
0.1	10	0.1500	2.71		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
4.4	210	0.1000	0.79		Shallow Concentrated Flow,
0.4	222	0.0900	14.75	44.06	Forest w/Heavy Litter Kv= 2.5 fps
0.4	333	0.0900	14.73	44.26	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022
0.2	221	0.1100	16.31	48.94	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022
0.3	317	0.1100	16.31	48.94	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022
0.3	305	0.1400	18.40	55.21	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.2	241	0.1200	17.04	51.11	n= 0.022 Trap/Vee/Rect Channel Flow,
0.2	2 4 I	0.1200	17.04	31.11	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022
0.1	138	0.2000	21.99	65.98	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022
0.2	224	0.1500	19.05	57.14	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.4	440	0.4400	0.04		n= 0.022
2.1	118	0.1400	0.94		Shallow Concentrated Flow,
3.5	167	0.1000	0.79		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
0.0	107	0.1000	0.73		Forest w/Heavy Litter Kv= 2.5 fps
0.1	89	0.1000	15.55	46.66	
-					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022
0.1	105	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.022
19.4	2,578	Total			

Summary for Subcatchment 103S: WS 1-8

Runoff = 21.84 cfs @ 12.45 hrs, Volume= 3.133 af, Depth= 0.59"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.004	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.012	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
9.906	70	Existing Woods, Good, HSG C
17.781	77	Existing Woods, Good, HSG D
2.274	70	Proposed Woods, Good, HSG C
3.491	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.042	98	Untreated proposed impervious, HSG D
0.006	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
8.051	71	Proposed meadow, ski trail, HSG C
18.519	78	Proposed meadow, ski trail, HSG D
2.211	71	Proposed meadow, ski lift, HSG C
1.103	78	Proposed meadow, ski lift, HSG D
63.400	75	Weighted Average
63.354		99.93% Pervious Area
0.046		0.07% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	5.7	100	0.2900	0.29		Sheet Flow,
						Grass: Dense n= 0.240 P2= 2.40"
	1.1	249	0.2900	3.77		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.9	274	0.3900	1.56		Shallow Concentrated Flow,
	1 5	252	0.2200	4.00		Forest w/Heavy Litter Kv= 2.5 fps
	1.5	353	0.3300	4.02		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
	0.6	277	0.2500	7.84	23.52	Trap/Vee/Rect Channel Flow, ditch
	0.0	211	0.2000	7.04	20.02	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.069 Riprap, 6-inch
	5.7	374	0.1900	1.09		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	5.8	462	0.2800	1.32		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	2.3	579	0.3500	4.14		Shallow Concentrated Flow,
	4.4	004	0.0000	4.40		Short Grass Pasture Kv= 7.0 fps
	4.4	294	0.2000	1.12		Shallow Concentrated Flow,
	10.3	639	0.1700	1.03		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
	10.5	039	0.1700	1.03		Forest w/Heavy Litter Kv= 2.5 fps
	0.6	363	0.1600	10.18	71.29	Trap/Vee/Rect Channel Flow,
	0.0	000	0000	10.10	0	Bot.W=6.00' D=1.00' Z= 1.0 '/' Top.W=8.00'
						n= 0.050
	1.3	806	0.1600	10.18	71.29	Trap/Vee/Rect Channel Flow,
						Bot.W=6.00' D=1.00' Z= 1.0 '/' Top.W=8.00'
_						n= 0.050
	42.2	4,770	Total			

Summary for Reach 6R: stream

Inflow Area = 24.822 ac, 24.69% Impervious, Inflow Depth = 0.83" for 2-Year event

Inflow = 8.31 cfs @ 12.10 hrs, Volume= 1.713 af

Outflow = 8.19 cfs @ 12.12 hrs, Volume= 1.713 af, Atten= 1%, Lag= 1.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 5.86 fps, Min. Travel Time= 0.8 min Avg. Velocity = 1.48 fps, Avg. Travel Time= 3.2 min

Peak Storage= 397 cf @ 12.11 hrs

Average Depth at Peak Storage= 0.41', Surface Width= 3.83' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 132.62 cfs

3.00' x 2.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 7.00' Length= 280.0' Slope= 0.1643 '/' Inlet Invert= 1,815.00', Outlet Invert= 1,769.00'

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Summary for Reach 8R: ditch to stream

16.590 ac, 25.90% Impervious, Inflow Depth = 0.91" for 2-Year event Inflow Area =

6.48 cfs @ 12.06 hrs, Volume= Inflow 1.254 af

6.32 cfs @ 12.10 hrs, Volume= Outflow 1.254 af, Atten= 2%, Lag= 2.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 5.65 fps, Min. Travel Time= 1.4 min Avg. Velocity = 1.48 fps, Avg. Travel Time= 5.4 min

Peak Storage= 539 cf @ 12.07 hrs Average Depth at Peak Storage= 0.34', Surface Width= 3.68' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 144.00 cfs

 $3.00' \times 2.00'$ deep channel, n= 0.050Side Slope Z-value= 1.0 '/' Top Width= 7.00' Length= 475.0' Slope= 0.1937 '/' Inlet Invert= 1,910.00', Outlet Invert= 1,818.00'



Summary for Reach 9R: stream

Inflow Area = 48.906 ac. 9.82% Impervious. Inflow Depth = 0.60" for 2-Year event

2.443 af 13.47 cfs @ 12.41 hrs, Volume= Inflow

13.44 cfs @ 12.44 hrs, Volume= 2.443 af, Atten= 0%, Lag= 1.5 min Outflow

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 6.34 fps, Min. Travel Time= 0.9 min Avg. Velocity = 2.60 fps, Avg. Travel Time= 2.1 min

Peak Storage= 700 cf @ 12.42 hrs

Average Depth at Peak Storage= 0.53', Surface Width= 4.55' Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 139.42 cfs

 $3.50' \times 2.00'$ deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 7.50'

Length= 330.0' Slope= 0.1424 '/'

Inlet Invert= 1,787.00', Outlet Invert= 1,740.00'

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Summary for Reach 10R: stream

Inflow Area = 47.746 ac, 9.75% Impervious, Inflow Depth = 0.60" for 2-Year event

Inflow = 13.35 cfs @ 12.40 hrs, Volume= 2.390 af

Outflow = 13.34 cfs @ 12.41 hrs, Volume= 2.390 af, Atten= 0%, Lag= 0.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 6.73 fps, Min. Travel Time= 0.3 min

Avg. Velocity = 2.75 fps, Avg. Travel Time= 0.8 min

Peak Storage= 278 cf @ 12.41 hrs

Average Depth at Peak Storage = 0.50', Surface Width = 4.49'

Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 152.96 cfs

3.50' x 2.00' deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 7.50'

Length= 140.0' Slope= 0.1714 '/'

Inlet Invert= 1,814.00', Outlet Invert= 1,790.00'



Summary for Reach 11R: stream

Inflow Area = 17.266 ac, 10.36% Impervious, Inflow Depth = 0.63" for 2-Year event

Inflow = 7.77 cfs @ 12.32 hrs, Volume= 0.913 af

Outflow = 7.72 cfs @ 12.34 hrs, Volume= 0.913 af, Atten= 1%, Lag= 1.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 6.07 fps, Min. Travel Time= 0.8 min Avg. Velocity = 2.26 fps, Avg. Travel Time= 2.2 min

Peak Storage= 382 cf @ 12.33 hrs

Average Depth at Peak Storage= 0.38', Surface Width= 3.75'

Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 145.10 cfs

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3.00' x 2.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 7.00' Length= 300.0' Slope= 0.1967 '/' Inlet Invert= 1,910.00', Outlet Invert= 1,851.00'



Summary for Reach 14R: drinage ditch

Inflow Area = 3.366 ac, 24.54% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 3.26 cfs @ 12.06 hrs, Volume= 0.203 af

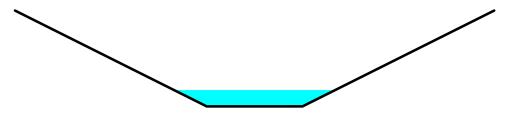
Outflow = 3.07 cfs @ 12.14 hrs, Volume= 0.203 af, Atten= 6%, Lag= 5.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 3.38 fps, Min. Travel Time= 3.0 min Avg. Velocity = 1.07 fps, Avg. Travel Time= 9.4 min

Peak Storage= 545 cf @ 12.09 hrs Average Depth at Peak Storage= 0.34', Surface Width= 3.36' Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 106.43 cfs

2.00' x 2.00' deep channel, n= 0.069 Side Slope Z-value= 2.0 '/' Top Width= 10.00' Length= 600.0' Slope= 0.1500 '/' Inlet Invert= 2,060.00', Outlet Invert= 1,970.00'



Summary for Reach 17R: stream

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 10.19 cfs @ 12.16 hrs, Volume= 1.076 af

Outflow = 10.10 cfs @ 12.17 hrs, Volume= 1.076 af, Atten= 1%, Lag= 0.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 6.87 fps, Min. Travel Time= 0.5 min Avg. Velocity = 1.05 fps, Avg. Travel Time= 3.2 min

Peak Storage= 302 cf @ 12.17 hrs

Average Depth at Peak Storage= 0.34', Surface Width= 4.68' Bank-Full Depth= 1.00' Flow Area= 5.0 sf, Capacity= 62.68 cfs

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4.00' x 1.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 6.00' Length= 204.0' Slope= 0.2696 '/' Inlet Invert= 1,711.00', Outlet Invert= 1,656.00'



Summary for Reach 19R: stream

Inflow Area = 16.549 ac, 14.99% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 10.00 cfs @ 12.14 hrs, Volume= 0.992 af

Outflow = 9.91 cfs @ 12.16 hrs, Volume= 0.992 af, Atten= 1%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 7.25 fps, Min. Travel Time= 0.6 min Avg. Velocity = 1.22 fps, Avg. Travel Time= 3.5 min

Peak Storage= 350 cf @ 12.15 hrs

Average Depth at Peak Storage= 0.54', Surface Width= 3.09' Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 63.50 cfs

2.00' x 1.50' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 5.00' Length= 254.0' Slope= 0.2087 '/' Inlet Invert= 1,770.00', Outlet Invert= 1,717.00'



Summary for Reach 23R: ditch

Inflow Area = 11.506 ac, 14.02% Impervious, Inflow Depth = 0.76" for 2-Year event

Inflow = 6.97 cfs @ 12.13 hrs, Volume= 0.728 af

Outflow = 6.82 cfs @ 12.18 hrs, Volume= 0.728 af, Atten= 2%, Lag= 3.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity = 5.61 fps, Min. Travel Time = 1.6 min Avg. Velocity = 0.89 fps, Avg. Travel Time = 10.3 min

Type II 24-hr 2-Year Rainfall=2.40"
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Peak Storage= 680 cf @ 12.15 hrs

Average Depth at Peak Storage= 0.37', Surface Width= 3.73' Bank-Full Depth= 1.00' Flow Area= 4.0 sf, Capacity= 38.44 cfs

 $3.00' \times 1.00'$ deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 5.00'

Length= 550.0' Slope= 0.1727 '/'

Inlet Invert= 1,945.00', Outlet Invert= 1,850.00'



Summary for Reach 24R: ditch

Inflow Area = 8.652 ac, 9.56% Impervious, Inflow Depth = 0.71" for 2-Year event

Inflow = 5.95 cfs @ 12.10 hrs, Volume= 0.511 af

Outflow = 5.83 cfs @ 12.15 hrs, Volume= 0.511 af, Atten= 2%, Lag= 2.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 4.54 fps, Min. Travel Time= 1.5 min Avg. Velocity = 1.53 fps, Avg. Travel Time= 4.4 min

Peak Storage= 522 cf @ 12.12 hrs

Average Depth at Peak Storage= 0.35', Surface Width= 4.41' Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 163.35 cfs

3.00' x 2.00' deep channel, n= 0.069 Riprap, 6-inch

Side Slope Z-value = 2.0 '/' Top Width = 11.00'

Length= 400.0' Slope= 0.2375 '/'

Inlet Invert= 2,015.00', Outlet Invert= 1,920.00'



Summary for Reach 29R: stream

Inflow Area = 68.800 ac, 9.84% Impervious, Inflow Depth = 0.67" for 2-Year event

Inflow = 27.74 cfs @ 12.15 hrs, Volume= 3.844 af

Outflow = 27.21 cfs @ 12.20 hrs, Volume= 3.844 af, Atten= 2%, Lag= 2.9 min

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Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Max. Velocity= 7.03 fps, Min. Travel Time= 1.5 min Avg. Velocity = 1.05 fps, Avg. Travel Time= 10.2 min

Peak Storage= 2,525 cf @ 12.17 hrs

Average Depth at Peak Storage= 0.98', Surface Width= 4.97' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 100.62 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders Side Slope Z-value= 1.0 '/' Top Width= 7.00' Length= 645.0' Slope= 0.0946 '/' Inlet Invert= 1,596.00', Outlet Invert= 1,535.00'



Summary for Reach 32R: dead end stream

Inflow Area = 36.642 ac, 8.77% Impervious, Inflow Depth = 0.64" for 2-Year event

Inflow = 10.65 cfs @ 12.12 hrs, Volume= 1.952 af

Outflow = 10.43 cfs @ 12.19 hrs, Volume= 1.952 af, Atten= 2%, Lag= 4.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Max. Velocity= 6.30 fps, Min. Travel Time= 2.0 min Avg. Velocity = 1.35 fps, Avg. Travel Time= 9.5 min

Peak Storage= 1,288 cf @ 12.15 hrs Average Depth at Peak Storage= 0.48', Surface Width= 3.96' Bank-Full Depth= 1.50' Flow Area= 6.8 sf, Capacity= 76.81 cfs

3.00' x 1.50' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 6.00' Length= 770.0' Slope= 0.1610 '/' Inlet Invert= 1,760.00', Outlet Invert= 1,636.00'



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Summary for Reach 34R: stream

Inflow Area = 30.406 ac, 6.66% Impervious, Inflow Depth = 0.59" for 2-Year event

Inflow = 7.86 cfs @ 12.55 hrs, Volume= 1.492 af

Outflow = 7.83 cfs @ 12.58 hrs, Volume= 1.492 af, Atten= 0%, Lag= 1.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 5.56 fps, Min. Travel Time= 1.1 min Avg. Velocity = 2.01 fps, Avg. Travel Time= 3.1 min

Peak Storage= 522 cf @ 12.56 hrs

Average Depth at Peak Storage= 0.41', Surface Width= 3.83' Bank-Full Depth= 1.50' Flow Area= 6.8 sf, Capacity= 73.80 cfs

 $3.00' \times 1.50'$ deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 6.00'

Length= 370.0' Slope= 0.1486 '/'

Inlet Invert= 1,815.00', Outlet Invert= 1,760.00'



Summary for Reach 35R: flow in wetland

Inflow Area = 24.244 ac, 4.80% Impervious, Inflow Depth = 0.52" for 2-Year event

Inflow = 6.41 cfs @ 12.46 hrs, Volume= 1.055 af

Outflow = 6.28 cfs @ 12.61 hrs, Volume= 1.055 af, Atten= 2%, Lag= 9.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 1.85 fps, Min. Travel Time= 5.4 min Avg. Velocity = 0.61 fps, Avg. Travel Time= 16.5 min

Peak Storage= 2,032 cf @ 12.52 hrs

Average Depth at Peak Storage= 0.28', Surface Width= 12.55' Bank-Full Depth= 1.00' Flow Area= 13.0 sf, Capacity= 53.58 cfs

12.00' x 1.00' deep channel, n= 0.100 Very weedy reaches w/pools

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 600.0' Slope= 0.0917 '/'

Inlet Invert= 2,080.00', Outlet Invert= 2,025.00'

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Summary for Reach 39R: stream

Inflow Area = 2.899 ac, 24.25% Impervious, Inflow Depth = 0.96" for 2-Year event

Inflow = 1.80 cfs @ 12.12 hrs, Volume= 0.231 af

Outflow = 1.61 cfs @ 12.30 hrs, Volume= 0.231 af, Atten= 10%, Lag= 10.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 2.93 fps, Min. Travel Time= 6.3 min Avg. Velocity = 0.90 fps, Avg. Travel Time= 20.3 min

Peak Storage= 608 cf @ 12.19 hrs

Average Depth at Peak Storage= 0.13', Surface Width= 4.27' Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 161.10 cfs

4.00' x 2.00' deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 8.00'

Length= 1,100.0' Slope= 0.1527 '/'

Inlet Invert= 1,780.00', Outlet Invert= 1,612.00'



Summary for Reach 40R: stream

Inflow Area = 58.284 ac, 2.15% Impervious, Inflow Depth = 0.63" for 2-Year event

Inflow = 17.91 cfs @ 12.06 hrs, Volume= 3.083 af

Outflow = 17.49 cfs @ 12.62 hrs, Volume= 3.083 af, Atten= 2%, Lag= 33.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 5.43 fps, Min. Travel Time= 2.4 min

Avg. Velocity = 1.64 fps, Avg. Travel Time= 7.8 min

Peak Storage= 2,483 cf @ 12.58 hrs

Average Depth at Peak Storage= 0.50', Surface Width= 6.99'

Bank-Full Depth= 2.00' Flow Area= 16.0 sf, Capacity= 186.92 cfs

 $6.00'\ x\ 2.00'\ deep\ channel,\ n=0.050\ Mountain\ streams\ w/large\ boulders$

Side Slope Z-value= 1.0 '/' Top Width= 10.00'

Length= 770.0' Slope= 0.1013 '/'

Inlet Invert= 1,563.00', Outlet Invert= 1,485.00'

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Summary for Reach 42R: stream

Inflow Area = 37.607 ac, 3.33% Impervious, Inflow Depth = 0.63" for 2-Year event

Inflow = 15.68 cfs @ 12.39 hrs, Volume= 1.989 af

Outflow = 14.98 cfs @ 12.57 hrs, Volume= 1.989 af, Atten= 4%, Lag= 11.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 6.32 fps, Min. Travel Time= 6.4 min Avg. Velocity = 1.63 fps, Avg. Travel Time= 24.9 min

Peak Storage= 5,796 cf @ 12.46 hrs

Average Depth at Peak Storage= 0.44', Surface Width= 5.87' Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 60.47 cfs

5.00' x 1.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 2,440.0' Slope= 0.1639 '/'

Inlet Invert= 1,973.00', Outlet Invert= 1,573.00'

Summary for Reach 45R: flow in wetland

Inflow Area = 26.451 ac, 1.62% Impervious, Inflow Depth = 0.59" for 2-Year event

Inflow = 12.12 cfs @ 12.26 hrs, Volume= 1.307 af

Outflow = 11.28 cfs @ 12.44 hrs, Volume= 1.307 af, Atten= 7%, Lag= 11.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 3.20 fps, Min. Travel Time= 6.2 min Avg. Velocity = 0.84 fps, Avg. Travel Time= 23.7 min

Peak Storage= 4,235 cf @ 12.34 hrs

Average Depth at Peak Storage= 0.50', Surface Width= 8.01' Bank-Full Depth= 1.00' Flow Area= 8.0 sf, Capacity= 37.72 cfs

6.00' x 1.00' deep channel, n= 0.100 Very weedy reaches w/pools

Side Slope Z-value= 2.0 '/' Top Width= 10.00'

Length= 1,200.0' Slope= 0.1442 '/'

Inlet Invert= 2,160.00', Outlet Invert= 1,987.00'

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Summary for Reach 102R: stream

Inflow Area = 321.351 ac, 5.57% Impervious, Inflow Depth > 0.63" for 2-Year event

Inflow = 84.75 cfs @ 12.53 hrs, Volume= 16.935 af

Outflow = 84.46 cfs @ 12.60 hrs, Volume= 16.935 af, Atten= 0%, Lag= 3.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 6.47 fps, Min. Travel Time= 2.3 min Avg. Velocity = 1.08 fps, Avg. Travel Time= 13.8 min

Peak Storage= 11,632 cf @ 12.56 hrs

Average Depth at Peak Storage= 1.00', Surface Width= 14.01' Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 883.89 cfs

12.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value = 1.0 '/' Top Width = 20.00'

Length= 890.0' Slope= 0.0562 '/'

Inlet Invert= 1,480.00', Outlet Invert= 1,430.00'



Summary for Reach 103R: stream

Inflow Area = 118.865 ac, 0.17% Impervious, Inflow Depth = 0.59" for 2-Year event

Inflow = 41.21 cfs @ 12.45 hrs, Volume= 5.854 af

Outflow = 41.08 cfs @ 12.47 hrs, Volume= 5.854 af, Atten= 0%, Lag= 1.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 6.29 fps, Min. Travel Time= 0.7 min Avg. Velocity = 2.09 fps, Avg. Travel Time= 2.2 min

Peak Storage= 1,801 cf @ 12.46 hrs

Average Depth at Peak Storage= 0.75', Surface Width= 9.50' Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 440.61 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 275.0' Slope= 0.0800 '/'

Inlet Invert= 1,502.00', Outlet Invert= 1,480.00'

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Summary for Reach 104R: stream

Inflow Area = 190.718 ac, 9.01% Impervious, Inflow Depth > 0.65" for 2-Year event

Inflow = 44.57 cfs @ 12.62 hrs, Volume= 10.357 af

Outflow = 44.47 cfs @ 12.66 hrs, Volume= 10.356 af, Atten= 0%, Lag= 2.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 6.97 fps, Min. Travel Time= 1.2 min Avg. Velocity = 1.23 fps, Avg. Travel Time= 6.7 min

Peak Storage= 3,162 cf @ 12.64 hrs

Average Depth at Peak Storage= 0.73', Surface Width= 9.46' Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 495.10 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 495.0' Slope= 0.1010 '/'

Inlet Invert= 1,530.00', Outlet Invert= 1,480.00'



Summary for Reach 108R: stream

Inflow Area = 31.149 ac, 0.22% Impervious, Inflow Depth = 0.55" for 2-Year event

Inflow = 11.58 cfs @ 12.33 hrs, Volume= 1.435 af

Outflow = 10.83 cfs @ 12.54 hrs, Volume= 1.435 af, Atten= 6%, Lag= 12.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 4.66 fps, Min. Travel Time= 7.0 min

Avg. Velocity = 1.56 fps, Avg. Travel Time = 21.1 min

Peak Storage = 4,597 cf @ 12.42 hrs

Average Depth at Peak Storage= 0.28', Surface Width= 8.56' Bank-Full Depth= 2.00' Flow Area= 20.0 sf, Capacity= 291.19 cfs

8.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 12.00'

Length= 1,968.0' Slope= 0.1443 '/'

Inlet Invert= 1,810.00', Outlet Invert= 1,526.00'

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Summary for Reach 110R: stream

Inflow Area = 156.700 ac, 6.38% Impervious, Inflow Depth = 0.60" for 2-Year event

Inflow = 39.89 cfs @ 12.59 hrs, Volume= 7.779 af

Outflow = 39.72 cfs @ 12.66 hrs, Volume= 7.779 af, Atten= 0%, Lag= 4.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 8.14 fps, Min. Travel Time= 2.4 min Avg. Velocity = 1.43 fps, Avg. Travel Time= 13.7 min

Peak Storage= 5,738 cf @ 12.62 hrs Average Depth at Peak Storage= 0.73', Surface Width= 7.45' Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 465.00 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 12.00'

Length= 1,175.0' Slope= 0.1464 '/'

Inlet Invert= 1,714.00', Outlet Invert= 1,542.00'



Summary for Reach 111R: upperstream

Inflow Area = 13.616 ac, 5.02% Impervious, Inflow Depth = 0.63" for 2-Year event

Inflow = 3.79 cfs @ 12.46 hrs, Volume= 0.711 af

Outflow = 3.76 cfs @ 12.52 hrs, Volume= 0.711 af, Atten= 1%, Lag= 4.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 4.61 fps, Min. Travel Time= 2.5 min Avg. Velocity = 1.28 fps, Avg. Travel Time= 9.0 min

Peak Storage = 561 cf @ 12.48 hrs

Average Depth at Peak Storage= 0.25', Surface Width= 3.50' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 139.11 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 686.0' Slope= 0.1808 '/'

Inlet Invert= 2,074.00', Outlet Invert= 1,950.00'



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Summary for Reach 112R: stream

Inflow Area = 22.637 ac, 11.13% Impervious, Inflow Depth = 0.68" for 2-Year event

Inflow = 10.07 cfs @ 11.97 hrs, Volume= 1.273 af

Outflow = 8.76 cfs @ 12.07 hrs, Volume= 1.273 af, Atten= 13%, Lag= 6.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity = 5.41 fps, Min. Travel Time = 3.8 min Avg. Velocity = 1.26 fps, Avg. Travel Time = 16.3 min

Peak Storage= 2,063 cf @ 12.01 hrs Average Depth at Peak Storage= 0.32', Surface Width= 5.63' Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 210.11 cfs

 $5.00' \times 2.00'$ deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 9.00'

Length= 1,230.0' Slope= 0.1772 '/'

Inlet Invert= 1,950.00', Outlet Invert= 1,732.00'



Summary for Reach 113R: ditch

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 10.10 cfs @ 12.17 hrs, Volume= 1.076 af

Outflow = 9.94 cfs @ 12.21 hrs, Volume= 1.076 af, Atten= 2%, Lag= 2.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 3.90 fps, Min. Travel Time= 1.0 min Avg. Velocity = 0.67 fps, Avg. Travel Time= 6.1 min

Peak Storage= 631 cf @ 12.19 hrs

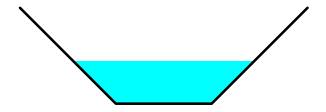
Average Depth at Peak Storage= 0.89', Surface Width= 3.78' Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 46.73 cfs

2.00' x 2.00' deep channel, n= 0.069

Side Slope Z-value= 1.0 '/' Top Width= 6.00'

Length= 245.0' Slope= 0.0694 '/'

Inlet Invert= 1,656.00', Outlet Invert= 1,639.00'



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Summary for Reach 114R: dead end channel

Inflow Area = 26.607 ac, 23.56% Impervious, Inflow Depth = 0.81" for 2-Year event

Inflow = 8.46 cfs @ 12.12 hrs, Volume= 1.789 af

Outflow = 8.32 cfs @ 12.14 hrs, Volume= 1.789 af, Atten= 2%, Lag= 1.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 7.72 fps, Min. Travel Time= 0.9 min Avg. Velocity = 2.05 fps, Avg. Travel Time= 3.3 min

Peak Storage= 435 cf @ 12.13 hrs Average Depth at Peak Storage= 0.33', Surface Width= 3.65'

Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 200.37 cfs

3.00' x 2.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 400.0' Slope= 0.3750 '/'

Inlet Invert= 1,750.00', Outlet Invert= 1,600.00'



Summary for Reach 115R: stream

Inflow Area = 41.779 ac, 7.74% Impervious, Inflow Depth = 0.59" for 2-Year event

Inflow = 11.74 cfs @ 12.45 hrs, Volume= 2.043 af

Outflow = 11.72 cfs @ 12.46 hrs, Volume= 2.043 af, Atten= 0%, Lag= 0.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 6.42 fps, Min. Travel Time= 0.3 min Avg. Velocity = 2.67 fps, Avg. Travel Time= 0.8 min

Peak Storage= 238 cf @ 12.45 hrs

Average Depth at Peak Storage= 0.52', Surface Width= 4.04' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 128.34 cfs

 $3.00' \times 2.00'$ deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 130.0' Slope= 0.1538 '/'

Inlet Invert= 1,844.00', Outlet Invert= 1,824.00'



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Summary for Pond 2P: Culvert 7C Driveway

Inflow Area = 48.906 ac, 9.82% Impervious, Inflow Depth = 0.60" for 2-Year event

Inflow = 13.47 cfs @ 12.41 hrs, Volume= 2.443 af

Primary = 13.47 cfs @ 12.41 hrs, Volume= 2.443 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 3P: Culvert 7B -Road A

Inflow Area = 47.746 ac, 9.75% Impervious, Inflow Depth = 0.60" for 2-Year event

Inflow = 13.35 cfs @ 12.40 hrs, Volume= 2.390 af

Primary = 13.35 cfs @ 12.40 hrs, Volume= 2.390 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 4P: trail culvert

Inflow Area = 5.237 ac, 26.12% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 3.94 cfs @ 12.14 hrs, Volume= 0.316 af

Primary = 3.94 cfs @ 12.14 hrs, Volume= 0.316 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 5P: Culvert 7A

Inflow Area = 41.779 ac, 7.74% Impervious, Inflow Depth = 0.59" for 2-Year event

Inflow = 11.74 cfs @ 12.45 hrs, Volume= 2.043 af

Primary = 11.74 cfs @ 12.45 hrs, Volume= 2.043 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 7P: Culvert 6A

Inflow Area = 24.822 ac, 24.69% Impervious, Inflow Depth = 0.83" for 2-Year event

Inflow = 8.31 cfs @ 12.10 hrs, Volume= 1.713 af

Primary = 8.31 cfs @ 12.10 hrs, Volume= 1.713 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 8P: new 36

Inflow Area = 13.779 ac, 3.95% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 10.49 cfs @ 12.14 hrs, Volume= 0.831 af

Outflow = 10.49 cfs @ 12.14 hrs, Volume= 0.831 af, Atten= 0%, Lag= 0.0 min

Primary = 10.49 cfs @ 12.14 hrs, Volume= 0.831 af

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Peak Elev= 1.24' @ 12.14 hrs

Device	Routing	Invert	Outlet Devices	
#1	Primary	0.00'	36.0" Round Culvert	
			L= 70.0' CPP, square edge headwall, Ke= 0.500	
			Inlet / Outlet Invert= 0.00' / -2.80' S= 0.0400 '/' Cc= 0.900	
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf	

Primary OutFlow Max=10.37 cfs @ 12.14 hrs HW=1.23' (Free Discharge)
—1=Culvert (Inlet Controls 10.37 cfs @ 3.78 fps)

Summary for Pond 9P: new 36

Inflow Area = 27.913 ac, 22.52% Impervious, Inflow Depth = 0.80" for 2-Year event

Inflow = 9.18 cfs @ 12.13 hrs, Volume= 1.858 af

Outflow = 9.18 cfs @ 12.13 hrs, Volume= 1.858 af, Atten= 0%, Lag= 0.0 min

Primary = 9.18 cfs @ 12.13 hrs, Volume= 1.858 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1.15' @ 12.13 hrs

Device	Routing	Invert	Outlet Devices	
#1	Primary	0.00'	36.0" Round Culvert	
			L= 70.0' CPP, square edge headwall, Ke= 0.500	
			Inlet / Outlet Invert= 0.00' / -1.05' S= 0.0150 '/' Cc= 0.900	
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf	

Primary OutFlow Max=9.07 cfs @ 12.13 hrs HW=1.15' (Free Discharge)
1=Culvert (Inlet Controls 9.07 cfs @ 3.65 fps)

Summary for Pond 10P: new 36

Inflow Area = 20.993 ac, 12.16% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 11.40 cfs @ 12.18 hrs, Volume= 1.260 af

Outflow = 11.40 cfs @ 12.18 hrs, Volume= 1.260 af, Atten= 0%, Lag= 0.0 min

Primary = 11.40 cfs @ 12.18 hrs, Volume= 1.260 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Peak Elev= 1.30' @ 12.18 hrs

Device	Routing	Invert	Outlet Devices	
#1	Primary	0.00'	36.0" Round Culvert	
			L= 70.0' CMP, square edge headwall, Ke= 0.500	
			Inlet / Outlet Invert= 0.00' / -2.10' S= 0.0300 '/' Cc= 0.900	
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf	

Primary OutFlow Max=11.31 cfs @ 12.18 hrs HW=1.29' (Free Discharge)
—1=Culvert (Inlet Controls 11.31 cfs @ 3.87 fps)

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Summary for Pond 12P: new 48

Inflow Area = 75.057 ac, 9.07% Impervious, Inflow Depth = 0.67" for 2-Year event

Inflow = 30.78 cfs @ 12.18 hrs, Volume= 4.198 af

Outflow = 30.78 cfs @ 12.18 hrs, Volume= 4.198 af, Atten= 0%, Lag= 0.0 min

Primary = 30.78 cfs @ 12.18 hrs, Volume= 4.198 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 2.02' @ 12.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	48.0" Round Culvert L= 50.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -2.80' S= 0.0560 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=30.52 cfs @ 12.18 hrs HW=2.01' (Free Discharge)
1=Culvert (Inlet Controls 30.52 cfs @ 4.83 fps)

Summary for Pond 13P: Culvert 6B

Inflow Area = 26.607 ac, 23.56% Impervious, Inflow Depth = 0.81" for 2-Year event

Inflow = 8.46 cfs @ 12.12 hrs, Volume= 1.789 af

Primary = 8.46 cfs @ 12.12 hrs, Volume= 1.789 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 16P: trunk line from condos

Inflow Area = 5.094 ac, 51.81% Impervious, Inflow Depth = 1.23" for 2-Year event

Inflow = 11.01 cfs @ 11.94 hrs, Volume= 0.522 af

Outflow = 11.01 cfs @ 11.94 hrs, Volume= 0.522 af, Atten= 0%, Lag= 0.0 min

Primary = 11.01 cfs @ 11.94 hrs, Volume= 0.522 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,713.58' @ 11.94 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,712.00'	30.0" Round Culvert
	-		L= 700.0' CPP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 1,712.00' / 1,694.00' S= 0.0257 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=10.78 cfs @ 11.94 hrs HW=1,713.56' (Free Discharge) 1=Culvert (Inlet Controls 10.78 cfs @ 3.35 fps)

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Summary for Pond 18P: Culvert 5 - Trail

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 10.19 cfs @ 12.16 hrs, Volume= 1.076 af

Primary = 10.19 cfs @ 12.16 hrs, Volume= 1.076 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 20P: road culvert

Inflow Area = 16.549 ac, 14.99% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 10.00 cfs @ 12.14 hrs, Volume= 0.992 af

Outflow = 10.00 cfs @ 12.14 hrs, Volume= 0.992 af, Atten= 0%, Lag= 0.0 min

Primary = 10.00 cfs @ 12.14 hrs, Volume= 0.992 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,774.77' @ 12.14 hrs

Device Routing Invert Outlet Devices

#1 Primary 1,774.00' **72.0" Round Culvert w/ 24.0" inside fill**L= 50.0' CMP, projecting, no headwall, Ke= 0.900

Inlet / Outlet Invert= 1,772.00' / 1,771.00' S= 0.0200 '/' Cc= 0.900

n= 0.025 Corrugated metal, Flow Area= 20.02 sf

Primary OutFlow Max=9.94 cfs @ 12.14 hrs HW=1,774.77' (Free Discharge)
1=Culvert (Inlet Controls 9.94 cfs @ 2.21 fps)

Summary for Pond 21P: Pipe Down Slope

Inflow Area = 14.576 ac, 16.67% Impervious, Inflow Depth = 0.75" for 2-Year event

Inflow = 9.11 cfs @ 12.15 hrs, Volume= 0.913 af

Outflow = 9.11 cfs @ 12.15 hrs, Volume= 0.913 af, Atten= 0%, Lag= 0.1 min

Primary = 9.11 cfs @ 12.15 hrs, Volume= 0.913 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Peak Elev= 1,813.18' @ 12.15 hrs Surf.Area= 0.001 ac Storage= 0.001 af

Plug-Flow detention time= 0.4 min calculated for 0.913 af (100% of inflow)

Center-of-Mass det. time= 0.4 min (1,021.0 - 1,020.7)

VolumeInvertAvail.StorageStorage Description#11,812.00'0.016 af8.00'D x 14.00'H Vertical Cone/Cylinder

Device Routing Invert Outlet Devices

#1 Primary 1,812.00' 48.0" Round Culvert

L= 100.0' CMP, projecting, no headwall, Ke= 0.900

Inlet / Outlet Invert= 1,812.00' / 1,780.00' S= 0.3200 '/' Cc= 0.900

n= 0.025 Corrugated metal, Flow Area= 12.57 sf

Primary OutFlow Max=9.06 cfs @ 12.15 hrs HW=1,813.18' (Free Discharge) 1=Culvert (Inlet Controls 9.06 cfs @ 2.92 fps)

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Summary for Pond 22P: Pipe Down Slope

Inflow Area = 14.576 ac, 16.67% Impervious, Inflow Depth = 0.75" for 2-Year event

Inflow = 9.11 cfs @ 12.15 hrs, Volume= 0.913 af

Outflow = 9.11 cfs @ 12.15 hrs, Volume= 0.913 af, Atten= 0%, Lag= 0.0 min

Primary = 9.11 cfs @ 12.15 hrs, Volume= 0.913 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,823.05' @ 12.15 hrs

Device	Routing	Invert	Outlet Devices	
#1	Primary	1,822.00'	48.0" Round Culvert	
			L= 100.0' CMP, square edge headwall, Ke= 0.500	
			Inlet / Outlet Invert= 1,822.00' / 1,818.00' S= 0.0400 '/' Cc= 0.900	
			n= 0.025 Corrugated metal, Flow Area= 12.57 sf	

Primary OutFlow Max=9.08 cfs @ 12.15 hrs HW=1,823.04' (Free Discharge) 1=Culvert (Inlet Controls 9.08 cfs @ 3.48 fps)

Summary for Pond 25P: road culvert

Inflow Area = 5.782 ac, 8.73% Impervious, Inflow Depth = 0.68" for 2-Year event

Inflow = 3.73 cfs @ 12.17 hrs, Volume= 0.327 af

Primary = 3.73 cfs @ 12.17 hrs, Volume= 0.327 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 26P: road culvert

Inflow Area = 2.870 ac, 11.22% Impervious, Inflow Depth = 0.77" for 2-Year event

Inflow = 3.06 cfs @ 12.05 hrs, Volume= 0.184 af

Primary = 3.06 cfs @ 12.05 hrs, Volume= 0.184 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 28P: road culvert

Inflow Area = 11.506 ac, 14.02% Impervious, Inflow Depth = 0.76" for 2-Year event

Inflow = 6.97 cfs @ 12.13 hrs, Volume= 0.728 af

Primary = 6.97 cfs @ 12.13 hrs, Volume= 0.728 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 30P: Culvert 4 -Trail

Inflow Area = 15.570 ac, 7.12% Impervious, Inflow Depth = 0.69" for 2-Year event

Inflow = 9.22 cfs @ 12.15 hrs, Volume= 0.901 af

Primary = 9.22 cfs @ 12.15 hrs, Volume= 0.901 af, Atten= 0%, Lag= 0.0 min

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Summary for Pond 31P: Trail Culvert

Inflow Area = 49.423 ac, 9.08% Impervious, Inflow Depth = 0.63" for 2-Year event

Inflow = 18.21 cfs @ 12.16 hrs, Volume= 2.607 af

Outflow = 18.21 cfs @ 12.16 hrs, Volume= 2.607 af, Atten= 0%, Lag= 0.0 min

Primary = 18.21 cfs @ 12.16 hrs, Volume= 2.607 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,627.50' @ 12.16 hrs

Device	Routing	Invert	Outlet Devices	
#1	Primary	1,626.00'	72.0" Round Culvert	
			L= 300.0' CMP, projecting, no headwall, Ke= 0.900	
			Inlet / Outlet Invert= 1,626.00' / 1,610.00' S= 0.0533 '/' Cc= 0.900	
			n= 0.025 Corrugated metal, Flow Area= 28.27 sf	

Primary OutFlow Max=18.08 cfs @ 12.16 hrs HW=1,627.49' (Free Discharge) 1=Culvert (Inlet Controls 18.08 cfs @ 3.29 fps)

Summary for Pond 33P: Culvert 12 -Road

Inflow Area = 36.642 ac, 8.77% Impervious, Inflow Depth = 0.64" for 2-Year event

Inflow = 10.65 cfs @ 12.12 hrs, Volume= 1.952 af

Primary = 10.65 cfs @ 12.12 hrs, Volume= 1.952 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 36P: trail culvert

Inflow Area = 24.244 ac. 4.80% Impervious. Inflow Depth = 0.52" for 2-Year event

Inflow = 6.41 cfs @ 12.46 hrs, Volume= 1.055 af

Primary = 6.41 cfs @ 12.46 hrs, Volume= 1.055 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 37P: Road E Culvert

Inflow Area = 27.875 ac, 6.15% Impervious, Inflow Depth = 0.57" for 2-Year event

Inflow = 7.39 cfs @ 12.57 hrs, Volume= 1.319 af

Primary = 7.39 cfs @ 12.57 hrs, Volume= 1.319 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 38P: Road A Culvert

Inflow Area = 21.776 ac, 3.80% Impervious, Inflow Depth = 0.51" for 2-Year event

Inflow = 6.10 cfs @ 12.47 hrs, Volume= 0.933 af

Primary = 6.10 cfs @ 12.47 hrs, Volume= 0.933 af, Atten= 0%, Lag= 0.0 min

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Summary for Pond 41P: Culvert 3 - Trail 3

Inflow Area = 58.284 ac, 2.15% Impervious, Inflow Depth = 0.63" for 2-Year event

Inflow = 17.91 cfs @ 12.06 hrs, Volume= 3.083 af

Primary = 17.91 cfs @ 12.06 hrs, Volume= 3.083 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 43P: Culvert 11 -Trail 3

Inflow Area = 35.358 ac, 2.93% Impervious, Inflow Depth = 0.63" for 2-Year event

Inflow = 14.61 cfs @ 12.40 hrs, Volume= 1.844 af

Primary = 14.61 cfs @ 12.40 hrs, Volume= 1.844 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 44P: Culvert 13 -Road A

Inflow Area = 26.451 ac, 1.62% Impervious, Inflow Depth = 0.59" for 2-Year event

Inflow = 12.12 cfs @ 12.26 hrs, Volume= 1.307 af

Primary = 12.12 cfs @ 12.26 hrs, Volume= 1.307 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 105P: Culvert 1 - Trail

Inflow Area = 180.600 ac, 7.35% Impervious, Inflow Depth = 0.63" for 2-Year event

Inflow = 44.19 cfs @ 12.62 hrs, Volume= 9.450 af

Primary = 44.19 cfs @ 12.62 hrs, Volume= 9.450 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 106P: Culvert 2- Trail 2

Inflow Area = 118.865 ac, 0.17% Impervious, Inflow Depth = 0.59" for 2-Year event

Inflow = 41.21 cfs @ 12.45 hrs, Volume= 5.854 af

Primary = 41.21 cfs @ 12.45 hrs, Volume= 5.854 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 107P: Culvert 10 -Trail 2

Inflow Area = 31.149 ac, 0.22% Impervious, Inflow Depth = 0.55" for 2-Year event

Inflow = 11.58 cfs @ 12.33 hrs, Volume= 1.435 af

Primary = 11.58 cfs @ 12.33 hrs, Volume= 1.435 af, Atten= 0%, Lag= 0.0 min

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Summary for Pond 108P: new 36

Inflow Area = 50.264 ac, 9.71% Impervious, Inflow Depth = 0.60" for 2-Year event

Inflow = 13.64 cfs @ 12.43 hrs, Volume= 2.525 af

Outflow = 13.64 cfs @ 12.43 hrs, Volume= 2.525 af, Atten= 0%, Lag= 0.0 min

Primary = 13.64 cfs @ 12.43 hrs, Volume= 2.525 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,741.44' @ 12.43 hrs

Device	Routing	Invert	Outlet Devices	
#1	Primary	1,740.00'	36.0" Round Culvert	
			L= 70.0' CMP, square edge headwall, Ke= 0.500	
			Inlet / Outlet Invert= 1,740.00' / 1,738.00' S= 0.0286 '/' Cc= 0.900	
			n= 0.025 Corrugated metal, Flow Area= 7.07 sf	

Primary OutFlow Max=13.62 cfs @ 12.43 hrs HW=1,741.43' (Free Discharge)
1=Culvert (Inlet Controls 13.62 cfs @ 4.08 fps)

Summary for Pond 109P: Culvert 9-Trail Crossing

Inflow Area = 87.844 ac, 2.93% Impervious, Inflow Depth = 0.55" for 2-Year event

Inflow = 20.20 cfs @ 12.59 hrs, Volume= 4.054 af

Primary = 20.20 cfs @ 12.59 hrs, Volume= 4.054 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond P1: Condos Complex Wet Pond

Inflow Area =	11.937 ac, 34.04% Impervious, Inflow	Depth = 1.00" for 2-Year event
Inflow =	17.49 cfs @ 11.95 hrs, Volume=	0.998 af
Outflow =	0.37 cfs @ 18.04 hrs, Volume=	0.991 af, Atten= 98%, Lag= 365.7 min
Primary =	0.37 cfs @ 18.04 hrs, Volume=	0.991 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,684.00' Surf.Area= 29,057 sf Storage= 54,189 cf

Peak Elev= 1,685.50' @ 18.04 hrs Surf.Area= 36,960 sf Storage= 83,490 cf (29,302 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= 1,031.4 min (1,870.3 - 838.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,678.00'	54,189 cf	Permanent Pool (Irregular)Listed below (Recalc)
#2	1,684.00'	66,450 cf	CPv (Irregular)Listed below (Recalc)
•		100.000.5	

120,639 cf Total Available Storage

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Elevation	on	Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area
(fee		(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,678.0	00	4,365	481.7	0	0	4,365
1,679.0		5,839	500.5	5,084	5,084	5,914
1,680.0	00	7,369	519.4	6,589	11,673	7,531
1,681.0	00	8,954	538.2	8,149	19,822	9,199
1,682.0		10,598	557.1	9,764	29,586	10,935
1,683.0		12,297	575.9	11,437	41,023	12,722
1,684.0	00	14,053	594.8	13,165	54,189	14,578
Elevation		Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area
(fee		(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	<u>(sq-ft)</u>
1,684.0		15,004	752.2	0	0	15,004
1,685.0		21,703	791.7	18,251	18,251	19,918
1,686.0		24,167	734.9	22,924	41,175	26,860
1,687.0	00	26,400	753.8	25,275	66,450	29,220
Device	Routing	Inv	art Outlat	Devices		
#1	Primary	1,681.		Round Culvert	na na haadwall k	(a= 0.000
					ing, no headwall, k	
						S= 0.0100 '/' Cc= 0.900
40	Davisa 1	1 604			interior, Flow Area	
#2	Device 1	1,684.0				d to weir flow at low heads
#3	Device 1	1,686.		Horiz. Orifice/Gra		
ДΛ	Casanda	m. 1 COC		d to weir flow at lov) a ata manulan Main
#4	Seconda	ry 1,686.			n Broad-Crested F	
				` ,		20 1.40 1.60 1.80 2.00
				3.00 3.50 4.00 4.		0.60 0.66 0.64 0.64
						2.68 2.66 2.64 2.64
			2.04 4	2.00 2.00 2.00 2.	66 2.68 2.70 2.74	+

Primary OutFlow Max=0.37 cfs @ 18.04 hrs HW=1,685.50' (Free Discharge)

1=Culvert (Passes 0.37 cfs of 22.33 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.37 cfs @ 5.59 fps)

-3=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,684.00' (Free Discharge)
4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Summary for Pond P10: Lot R31 Soil Filter

Inflow Area =	8.042 ac, 30.75% Impervious, Inflow	Depth = 1.03" for 2-Year event
Inflow =	8.72 cfs @ 12.00 hrs, Volume=	0.691 af
Outflow =	0.36 cfs @ 15.84 hrs, Volume=	0.691 af, Atten= 96%, Lag= 230.8 min
Primary =	0.36 cfs @ 15.84 hrs, Volume=	0.691 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,975.33' Surf.Area= 4,651 sf Storage= 614 cf

Peak Elev= 1,980.27' @ 15.84 hrs Surf.Area= 7,014 sf Storage= 18,732 cf (18,118 cf above start)

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Plug-Flow detention time= 628.6 min calculated for 0.677 af (98% of inflow) Center-of-Mass det. time= 601.9 min (1,451.4 - 849.5)

Volume	Inver	t Avail.	.Storage	Storage	Description		
#1	1,975.00)' 5	3,120 cf	Custom	Stage Data (Irregu	ular)Listed below (Recalc)
□ 1			Danina	\	la a Otana	O Ota	\\/-4 \\
Elevation		Surf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area
(feet)	(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,975.00)	4,651	326.9	0.0	0	0	4,651
1,976.50)	4,651	326.9	40.0	2,791	2,791	5,141
1,978.00)	4,651	326.9	40.0	2,791	5,581	5,632
1,980.00)	6,726	364.6	100.0	11,313	16,895	7,818
1,982.00		9,027	402.3	100.0	15,697	32,591	10,244
1,984.00		11,554	440.0	100.0	20,529	53,120	12,907
ŕ		•			•	,	•
Device	Routing	Inv	ert Outle	et Device:	S		
#1	Primary	1,974.	00' 24.0 '	" Round	Culvert		
			L= 1	00.0' CF	P, projecting, no he	eadwall, Ke= 0.90	0
			Inlet	/ Outlet In	nvert= 1,974.00' / 1,	972.00' S= 0.020	00 '/' Cc= 0.900
			n= 0	.011 PV0	C, smooth interior, F	Flow Area= 3.14 st	f
#2	Device 1	1,975.	33' 2.5"	Vert. Ori	fice/Grate C= 0.60	00 Limited to weir	r flow at low heads
#3	Device 2	1,975.	00' 3.00	0 in/hr Ex	kfiltration over Sur	face area	
#4	Device 1	1,982.		" Horiz. (Orifice/Grate C= 0	.600	
		,			r flow at low heads		
#5	Secondar	y 1,982.			0' breadth Broad-0	Crested Rectangi	ular Weir
•		, .,			.20 0.40 0.60 0.80		
					50 4.00 4.50 5.00		1.00 1.00 2.00
					i) 2.43 2.54 2.70 2		66 2 64 2 64
					35 2.66 2.66 2.68		.00 2.04 2.04
			2.04	2.00 2.0	2.00 2.00 2.00	2.10 2.17	

Primary OutFlow Max=0.36 cfs @ 15.84 hrs HW=1,980.27' (Free Discharge)

-1=Culvert (Passes 0.36 cfs of 27.41 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.36 cfs @ 10.59 fps)
-3=Exfiltration (Passes 0.36 cfs of 0.49 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,975.33' (Free Discharge) -5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11: Parking Lot G Wet Pond

Inflow Area =	8.304 ac, 46.98% Impervious, Inflow	Depth = 1.22" for 2-Year event
Inflow =	18.18 cfs @ 11.95 hrs, Volume=	0.846 af
Outflow =	0.14 cfs @ 24.03 hrs, Volume=	0.804 af, Atten= 99%, Lag= 724.9 min
Primary =	0.14 cfs @ 24.03 hrs, Volume=	0.804 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,534.10' Surf.Area= 24,527 sf Storage= 51,257 cf

Peak Elev= 1,535.90' @ 24.03 hrs Surf.Area= 31,095 sf Storage= 82,226 cf (30,969 cf above start)

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Plug-Flow detention time= (not calculated: initial storage exceeds outflow) Center-of-Mass det. time= 2,415.5 min (3,242.3 - 826.8)

Volume	Invert	t Avai	I.Storage	Storage Descript	ion	
#1	1,527.00	'	49,963 cf	Permanent Poo	I (Irregular)Listed	below (Recalc)
#2	1,534.00	•	77,661 cf	CPv (Irregular) L	isted below (Reca	lc)
		1:	27,624 cf	Total Available S	torage	
Elevatio		urf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area
(feet		(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,527.0		3,398	312.2	0	0	3,398
1,528.0		4,364	331.3	3,871	3,871	4,428
1,529.0		5,386	350.1	4,866	8,737	5,502
1,530.0		6,465	369.0	5,917	14,654	6,642
1,531.0		7,600	387.8	7,025	21,679	7,836
1,532.0		8,792	406.7	8,189	29,868	9,095
1,533.0		10,040	425.5	9,409	39,277	10,408
1,534.0	0	11,345	444.4	10,686	49,963	11,787
	_					
Elevatio		urf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area
(feet	•	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,534.0		12,700	621.7	0	0	12,700
1,535.0		17,927	661.0	15,239	15,239	16,762
1,536.0		19,949	587.1	18,929	34,168	24,129
1,537.0		21,739	606.0	20,838	55,005	26,020
1,538.0	0	23,585	624.8	22,656	77,661	27,961
Device	Routing	In	vert Outle	et Devices		
#1		1,530				
# 1	Primary	1,530		" Round Culvert		Ka= 0 000
					cting, no headwall, 530.00' / 1,528.00'	
					h interior, Flow Ar	
#2	Device 1	1,534				ited to weir flow at low heads
#2 #3	Device 1	1,534		" Horiz. Orifice/G		illed to well flow at low fleads
#3	Device i	1,550		ted to weir flow at		
#4	Secondary	, 1,536				d Rectangular Weir
#4	Secondary	1,550				1.20 1.40 1.60 1.80 2.00
				3.00 3.50 4.00		1.20 1.40 1.00 1.00 2.00
						68 2.68 2.66 2.64 2.64
					2.66 2.68 2.70 2	
			2.04	2.00 2.00 2.00	2.00 2.00 2.70 2	

Primary OutFlow Max=0.14 cfs @ 24.03 hrs HW=1,535.90' (Free Discharge)

1=Culvert (Passes 0.14 cfs of 56.39 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.14 cfs @ 6.32 fps)

-3=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,534.10' (Free Discharge) 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

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Summary for Pond P12: Drop-off Parking Lot Soil Filter

Inflow Area = 4.069 ac, 25.29% Impervious, Inflow Depth = 1.01" for 2-Year event

Inflow 5.19 cfs @ 11.94 hrs, Volume= 0.341 af

0.12 cfs @ 18.49 hrs, Volume= Outflow 0.341 af, Atten= 98%, Lag= 393.2 min

Primary = 0.12 cfs @ 18.49 hrs, Volume= 0.341 af 0.00 cfs @ 0.00 hrs, Volume= 0.000 af Secondary =

Routing by Stor-Ind method. Time Span= 0.00-120.00 hrs. dt= 0.05 hrs.

Starting Elev= 1,466.33' Surf.Area= 3,179 sf Storage= 420 cf

Peak Elev= 1,470.70' @ 18.49 hrs Surf.Area= 4,513 sf Storage= 10,338 cf (9,919 cf above start)

Plug-Flow detention time= 991.2 min calculated for 0.331 af (97% of inflow)

Center-of-Mass det. time= 942.6 min (1,789.0 - 846.3)

Volume	Invert	Avail.S	torage	Storage	Description		
#1	1,466.00'	30	,846 cf	Custom	Stage Data (Irregu	ılar) Listed below (F	Recalc)
Elevatio	o Cu	ırf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area
(feet	,	(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,466.0		3,179	247.1	0.0	0	0	3,179
1,467.5		3,179	247.1	40.0	1,907	1,907	3,550
1,469.0	0	3,179	247.1	40.0	1,907	3,815	3,920
1,470.0	0	3,948	265.9	100.0	3,557	7,371	4,730
1,472.0	0	5,657	303.6	100.0	9,554	16,925	6,530
1,473.0	0	7,016	329.2	100.0	6,324	23,250	7,858
1,474.0	0	8,192	360.5	100.0	7,596	30,846	9,610
Device	Routing	Inve	rt Outle	et Device:	S		
#1	Primary	1,466.00	O' 18.0	" Round	Outlet Culvert		
	•		L= 1	00.0' CF	P, projecting, no he	adwall, Ke= 0.900)
			Inlet	/ Outlet In	nvert= 1,466.00' / 1,	464.00' S= 0.020	0 '/' Cc= 0.900
			n= 0	.013 Cor	rugated PE, smooth	interior, Flow Are	ea= 1.77 sf
#2	Device 1	1,466.33			fice/Grate C= 0.60		
#3	Device 2	1,466.00			xfiltration over Sur		
#4	Device 1	1,472.50			Orifice/Grate C= 0		
., .		.,			r flow at low heads		
#5	Secondary	1,473.00			0' breadth Broad-0	Crested Rectangu	ılar Weir
77 0	Cocomaany	1, 17 0.0			.20 0.40 0.60 0.80		
					50 4.00 4.50 5.00		1.00 1.00 2.00
					i) 2.43 2.54 2.70 2		66 2 64 2 64
					65 2.66 2.66 2.68		.00 2.07 2.07
			2.04	2.00 2.0	2.00 2.00 2.00	2.10 2.14	

Primary OutFlow Max=0.12 cfs @ 18.49 hrs HW=1,470.70' (Free Discharge)

-1=Outlet Culvert (Passes 0.12 cfs of 13.35 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.12 cfs @ 10.00 fps)
-3=Exfiltration (Passes 0.12 cfs of 0.31 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,466.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

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Summary for Pond P13: Parking Lot H Wet Pond

Inflow Area = 2.921 ac, 40.05% Impervious, Inflow Depth = 1.16" for 2-Year event Inflow = 0.283 af

Outflow = 0.10 cfs @ 17.72 hrs, Volume= 0.282 af, Atten= 98%, Lag= 347.2 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,567.00' Surf.Area= 11,858 sf Storage= 14,847 cf

Peak Elev= 1,568.07' @ 17.72 hrs Surf.Area= 15,790 sf Storage= 23,266 cf (8,419 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= 1,047.4 min (1,876.6 - 829.2)

				,						
Volume	Invert	Avail.S	Storage	Storage Descripti	on					
#1	1,561.00'	14	,847 cf	Permanent Pool	Permanent Pool (Irregular)Listed below (Recalc)					
#2	1,567.00'	30	,200 cf		isted below (Recal					
		45	,047 cf	Total Available St	orage		_			
Elevatior		f.Area	Perim.	Inc.Store	Cum.Store	Wet.Area				
(feet)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)				
1,561.00)	495	188.6	0	0	495				
1,566.00)	4,031	282.9	9,898	9,898	4,224				
1,567.00)	5,929	467.9	4,950	14,847	15,284				
	_		_							
Elevation		f.Area	Perim.	Inc.Store	Cum.Store	Wet.Area				
(feet		(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)				
1,567.00		5,929	467.9	0	0	5,929				
1,568.00		9,766	479.1	7,768	7,768	6,897				
1,569.00		1,246	454.1	10,497	18,265	8,811				
1,570.00	0 1	2,637	473.0	11,935	30,200	10,280				
Device	Routing	Inve	rt Outl	et Devices						
#1	Primary	1,560.0		" Round Culvert	ting no boodwall	K 0 000				
				00.0' CPP, project			o= 0 000			
				/ Outlet Invert= 1,8			C= 0.900			
#2	Device 1	1,567.0					t low boads			
	Device 1 Device 1	1,568.8								
πΟ	Device i	1,500.0		ted to weir flow at I						
#4	Secondary	1,569.0		long x 8.0' bread		l Rectangular We	eir			
11-1	Coolidary	1,000.0		d (feet) 0.20 0.40						
				3.00 3.50 4.00		1.20 1.10 1.00 1	2.00			
			50	5.55 5.55 1.66	0.00 0.00					

Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64

2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

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Primary OutFlow Max=0.10 cfs @ 17.72 hrs HW=1,568.07' (Free Discharge)

-1=Culvert (Passes 0.10 cfs of 68.85 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.10 cfs @ 4.77 fps)

-3=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,567.00' (Free Discharge)
4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Summary for Pond P14: Timbers 1-7 Wet Pond

Inflow Area = 7.622 ac, 23.79% Impervious, Inflow Depth = 0.77" for 2-Year event

Inflow = 11.48 cfs @ 11.94 hrs, Volume= 0.490 af

Outflow = 0.17 cfs @ 19.53 hrs, Volume= 0.486 af, Atten= 99%, Lag= 455.5 min

Primary = 0.17 cfs @ 19.53 hrs, Volume= 0.486 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,721.00' Surf.Area= 19,738 sf Storage= 31,523 cf

Peak Elev= 1,722.14' @ 19.53 hrs Surf.Area= 25,352 sf Storage= 46,107 cf (14,585 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)

Center-of-Mass det. time= 1,131.8 min (1,987.8 - 856.0)

Volume	Invert	Avail.Storage	Storage Description
#1	1,715.00'	31,523 cf	Permanent Pool (Irregular)Listed below (Recalc)
#2	1,721.00'	46,722 cf	CPv (Irregular)Listed below (Recalc)

78.245 cf Total Available Storage

	,	0,240 01	Total / Wallable Ote	rago	
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,715.00	1,909	325.0	0	0	1,909
1,716.00	2,912	343.8	2,393	2,393	2,964
1,717.00	3,972	362.7	3,428	5,821	4,084
1,718.00	5,088	381.6	4,519	10,340	5,263
1,719.00	6,261	400.4	5,664	16,004	6,497
1,720.00	7,490	419.3	6,866	22,870	7,796
1,721.00	9,869	603.5	8,652	31,523	22,797
Elevation	Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area
(feet)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,721.00	9,869	603.5	0	0	9,869
1,722.00	15,216	645.8	12,446	12,446	14,120
1,723.00	17,184	596.9	16,190	28,636	18,996
1,724.00	19,003	615.8	18,086	46,722	20,918
Davida - Davida			. A. D d		

Device Routing Invert Outlet Devices

#1 Primary 1,714.00' **36.0" Round Culvert**

L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,714.00' / 1,713.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 7.07 sf

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#2	Device 1	1,721.00'	2.5" Vert. Orifice/Grate - Gravel Bench Underdrain C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,722.40'	24.0" Horiz. Orifice/Grate C= 0.600
			Limited to weir flow at low heads
#4	Secondary	1,722.80'	8.0' long x 8.0' breadth Broad-Crested Rectangular Weir
	•		Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00
			2.50 3.00 3.50 4.00 4.50 5.00 5.50
			Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64
			2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.17 cfs @ 19.53 hrs HW=1,722.14' (Free Discharge)

-1=Culvert (Passes 0.17 cfs of 69.24 cfs potential flow)

2=Orifice/Grate - Gravel Bench Underdrain(Orifice Controls 0.17 cfs @ 4.90 fps)

-3=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,721.00' (Free Discharge)
4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Summary for Pond P16: Timbers 10 Soil Filter

Inflow Area =	0.660 ac, 35.00% Impervious, Inflow I	Depth = 0.93" for 2-Year event
Inflow =	1.20 cfs @ 11.93 hrs, Volume=	0.051 af
Outflow =	0.10 cfs @ 12.47 hrs, Volume=	0.054 af, Atten= 92%, Lag= 32.3 min
Primary =	0.10 cfs @ 12.47 hrs, Volume=	0.054 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 2,085.33' Surf.Area= 877 sf Storage= 116 cf Peak Elev= 2,087.47' @ 12.47 hrs Surf.Area= 877 sf Storage= 865 cf (749 cf above start)

Plug-Flow detention time= (not calculated: outflow precedes inflow) Center-of-Mass det. time= 33.0 min (877.3 - 844.3)

Volume	Inv	ert Avai	I.Storage	Storage D	Description		
#1	2,085.0	00'	9,992 cf	Custom S	Stage Data (Irreg	ular)Listed below ((Recalc)
Classatia		Court Aman	Davisa	\/aida	lua Otana	Cura Stara	\\/a4
Elevation		Surf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area
(fee	t)	(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)
2,085.0	00	877	192.0	0.0	0	0	877
2,086.5	50	877	192.0	40.0	526	526	1,165
2,088.0	00	877	192.0	40.0	526	1,052	1,453
2,090.0	0	2,142	229.7	100.0	2,926	3,979	2,787
2,092.0	00	3,964	290.6	100.0	6,013	9,992	5,361
Device	Routing	In	vert Outle	et Devices			
#1	Primary	2,085	.00' 24.0	" Round (Outlet Culvert		
	-		L= 1	00.0' CPF	P, projecting, no he	eadwall, Ke= 0.90	0
						(0.084.00) S= 0.010	
			n= 0	.013, Flow	/ Area= 3.14 sf		
#2	Device 1	1 2,085	.33' 1.0"	Vert. Orifi	ice/Grate C= 0.6	00 Limited to wei	r flow at low heads
#3	Device 1	1 2,085	.00' 3.00	0 in/hr Ext	filtration over Su	rface area	

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#4	Device 1	2,091.40'	24.0" Horiz. Orifice/Grate C= 0.600	

Limited to weir flow at low heads

#5 Secondary 2.091.50' 6.0' long x 8.0' breadth Broad-Crested Rectangular Weir

Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50

Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64

2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.10 cfs @ 12.47 hrs HW=2,087.46' (Free Discharge)

-1=Outlet Culvert (Passes 0.10 cfs of 14.45 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.04 cfs @ 6.97 fps)

-3=Exfiltration (Exfiltration Controls 0.06 cfs)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=2,085.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P17: Timbers 11-14 Soil Filter

Inflow Area = 1.829 ac, 34.99% Impervious, Inflow Depth = 1.10" for 2-Year event

Inflow 3.56 cfs @ 11.96 hrs, Volume= 0.168 af

Outflow = 0.11 cfs @ 14.72 hrs, Volume= 0.168 af, Atten= 97%, Lag= 165.1 min

0.11 cfs @ 14.72 hrs, Volume= 0.168 af Primary Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 2,119.33' Surf.Area= 2,430 sf Storage= 321 cf

Peak Elev= 2,122.61' @ 14.72 hrs Surf.Area= 2,867 sf Storage= 4,538 cf (4,217 cf above start)

Plug-Flow detention time= 541.4 min calculated for 0.160 af (96% of inflow)

Center-of-Mass det. time= 487.8 min (1,323.7 - 835.9)

Volume	Invert	Ava	il.Storage	Storage	Description					
#1	2,119.00'		13,840 cf	Custom	Custom Stage Data (Irregular)Listed below (Recalc)					
Elevation (feet)		ırf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)			
2,119.00		2,430	238.8	0.0	0	0	2,430			
2,120.50)	2,430	238.8	40.0	1,458	1,458	2,788			
2,122.00)	2,430	238.8	40.0	1,458	2,916	3,146			
2,124.00)	3,989	280.8	100.0	6,355	9,271	4,959			
2,125.00)	5,174	303.4	100.0	4,569	13,840	6,050			
Device I	Routing	In	vert Outle	et Device:	S					
#1 I	Primary	2,119	9.00' 24.0	" Round	Outlet Culvert					
	•		1 - 4	00 01 00	D projecting no b	andwall 1/a= 0.00	\ <u>\</u>			

Primary	2,119.00'	24.0" Round Outlet Culvert
		L= 100.0' CPP, projecting, no headwall, Ke= 0.900
		Inlet / Outlet Invert= 2,119.00' / 2,117.00' S= 0.0200 '/' Cc= 0.900
		n= 0.013, Flow Area= 3.14 sf
Device 1	2,119.33'	1.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
Device 2	2,119.00'	3.000 in/hr Exfiltration over Surface area
Device 1	2,123.70'	24.0" Horiz. Orifice/Grate C= 0.600
	Device 1 Device 2	Device 1 2,119.33' Device 2 2,119.00'

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Limited to weir flow at low heads

#5 Secondary 2,124.00' 6.0' long x 8.0' breadth Broad-Crested Rectangular Weir

Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.11 cfs @ 14.72 hrs HW=2,122.61' (Free Discharge)

-1=Outlet Culvert (Passes 0.11 cfs of 19.30 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.11 cfs @ 8.64 fps)

3=Exfiltration (Passes 0.11 cfs of 0.20 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=2,119.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P2: Townhomes 3-6 Soil Filter

Inflow Area = 3.212 ac, 25.50% Impervious, Inflow Depth = 0.72" for 2-Year event Inflow = 0.194 af

Outflow = 0.10 cfs @ 16.72 hrs, Volume= 0.194 af, Atten= 97%, Lag= 281.0 min

Primary = 0.10 cfs @ 16.72 hrs, Volume= 0.194 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,739.33' Surf.Area= 3,904 sf Storage= 515 cf

Peak Elev= 1,742.19' @ 16.72 hrs Surf.Area= 4,079 sf Storage= 5,460 cf (4,944 cf above start)

Plug-Flow detention time= 730.4 min calculated for 0.182 af (94% of inflow)

Center-of-Mass det. time= 648.4 min (1,515.7 - 867.4)

Volume	Invert	Avail	.Storage	Storage Description				
#1	1,739.00'	2	8,913 cf	Custom S	Stage Data (Irreg	ular)Listed below (Recalc)	
Elevation (feet)		urf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
1,739.00		3,904	312.1	0.0	0	0	3,904	
1,740.50		3,904	312.1	40.0	2,342	2,342	4,372	
1,742.00	1	3,904	312.1	40.0	2,342	4,685	4,840	
1,744.00	1	5,890	349.8	100.0	9,726	14,411	6,933	
1,746.00		8,703	412.7	100.0	14,502	28,913	10,826	
Device I	Routing	Inv	ert Outle	et Devices				
#1 I	Primary	1,738.	00' 24.0	" Round (Outlet Culvert		·	
	•		1 – 1		nrojecting no b	andwall Ka- 0.00	Λ	

201100			0 41101 2011000
#1	Primary	1,738.00'	24.0" Round Outlet Culvert
	-		L= 100.0' CPP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 1,738.00' / 1,736.00' S= 0.0200 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,739.33'	1.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,739.00'	3.000 in/hr Exfiltration over Surface area
#4	Device 1	1,743.50'	24.0" Horiz. Orifice/Grate C= 0.600
			Limited to weir flow at low heads

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#5 Secondary 1,744.00' **4.0' long x 8.0' breadth Broad-Crested Rectangular Weir**

Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00

2.50 3.00 3.50 4.00 4.50 5.00 5.50

Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64

2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.10 cfs @ 16.72 hrs HW=1,742.19' (Free Discharge)

-1=Outlet Culvert (Passes 0.10 cfs of 21.34 cfs potential flow)

—2=Orifice/Grate (Orifice Controls 0.10 cfs @ 8.06 fps)

3=Exfiltration (Passes 0.10 cfs of 0.28 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,739.33' (Free Discharge)
5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P3: Townhomes 1-2 Soil Filter

Inflow Area = 7.421 ac, 27.30% Impervious, Inflow Depth = 0.87" for 2-Year event Inflow = 9.03 cfs @ 11.98 hrs, Volume= 0.538 af

Outflow = 0.21 cfs @ 18.18 hrs, Volume= 0.538 af, Atten= 98%, Lag= 372.3 min
Primary = 0.21 cfs @ 18.18 hrs, Volume= 0.538 af

Secondary = 0.21 cls @ 16.16 fils, Volume= 0.536 at 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,751.33' Surf.Area= 5,240 sf Storage= 692 cf

Peak Elev= 1,755.58' @ 18.18 hrs Surf.Area= 6,892 sf Storage= 15,824 cf (15,133 cf above start)

Plug-Flow detention time= 890.9 min calculated for 0.522 af (97% of inflow)

Center-of-Mass det. time= 844.2 min (1,697.8 - 853.6)

Volume	Inve	rt Avai	I.Storage	Storage	Description		
#1	1,751.00)'	57,886 cf	Custom	Stage Data (Irre	gular)Listed below	/(Recalc)
Elevation (feet)		Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,751.00		5,240	336.6	0.0	0	0	5,240
1,752.50		5,240	336.6	40.0	3,144	3,144	5,745
1,754.00		5,240	336.6	40.0	3,144	6,288	6,250
1,756.00		7,373	374.3	100.0	12,552	18,840	8,498
1,758.00		9,731	412.0	100.0	17,050	35,890	10,984
1,760.00		12,316	449.7	100.0	21,996	57,886	13,709
Device I	Routing	In	vert Outle	et Device	S		
#1 F	Primary	1,750	.00' 18.0	" Round	Outlet Culvert		
	,	,	l = 5	OO' CPE	nrojecting no h	eadwall Ke= 0.90	00

Primary	1,750.00'	18.0" Round Outlet Culvert
		L= 50.0' CPP, projecting, no headwall, Ke= 0.900
		Inlet / Outlet Invert= 1,750.00' / 1,748.00' S= 0.0400 '/' Cc= 0.900
		n= 0.013, Flow Area= 1.77 sf
Device 1	1,751.33'	2.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
Device 2	1,751.00'	3.000 in/hr Exfiltration over Surface area
Device 1	1,757.50'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
Secondary	1,758.00'	4.0' long x 8.0' breadth Broad-Crested Rectangular Weir
	Device 1 Device 2 Device 1	Device 1 1,751.33' Device 2 1,751.00' Device 1 1,757.50'

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Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.21 cfs @ 18.18 hrs HW=1,755.58' (Free Discharge)

-1=Outlet Culvert (Passes 0.21 cfs of 14.76 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.21 cfs @ 9.83 fps)

3=Exfiltration (Passes 0.21 cfs of 0.48 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,751.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P4: Bottom Road A Soil Filter

Inflow Area = 2.357 ac, 32.63% Impervious, Inflow Depth = 1.06" for 2-Year event
Inflow = 2.91 cfs @ 11.99 hrs, Volume= 0.209 af
Outflow = 0.14 cfs @ 14.67 hrs, Volume= 0.209 af, Atten= 95%, Lag= 161.1 min
Outflow = 0.14 cfs @ 14.67 hrs, Volume= 0.209 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,761.33' Surf.Area= 802 sf Storage= 106 cf

Peak Elev= 1,766.79' @ 14.67 hrs Surf.Area= 2,335 sf Storage= 5,218 cf (5,112 cf above start)

Plug-Flow detention time= 468.4 min calculated for 0.207 af (99% of inflow)

Avail.Storage Storage Description

Center-of-Mass det. time= 453.3 min (1,296.2 - 843.0)

Invert

Volume

#1	1,761.00'	,	16,287 cf	Custom	Stage Data (Irregu	ılar)Listed below (I	Recalc)
Elevatio	n Su	rf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area
(fee	t)	(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,761.0	0	802	158.2	0.0	0	0	802
1,762.5	50	802	158.2	40.0	481	481	1,039
1,764.0	0	802	158.2	40.0	481	962	1,277
1,766.0	0	1,864	195.9	100.0	2,592	3,555	2,396
1,768.0	0	3,153	233.6	100.0	4,961	8,516	3,755
1,770.0	0	4,668	271.3	100.0	7,772	16,287	5,351
Device	Routing	Inv	vert Outle	et Devices	S		
#1	Primary	1,760	.00' 24.0	" Round	Outlet Culvert		
					PP, projecting, no he		
					nvert= 1,760.00' / 1,		
					rugated PE, smooth		
#2	Device 1	1,761			fice/Grate C= 0.60		flow at low heads
#3	Device 2	1,761			cfiltration over Sur		
#4	Device 1	1,768			Orifice/Grate C= 0	.600	
#5	Secondary	1,768			r flow at low heads 0' breadth Broad- 0	Crested Rectangu	ılar Weir

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Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.14 cfs @ 14.67 hrs HW=1,766.79' (Free Discharge)

1=Outlet Culvert (Passes 0.14 cfs of 28.74 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.14 cfs @ 11.19 fps)

3=Exfiltration (Passes 0.14 cfs of 0.16 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,761.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P5: Roads A and F Soil Filter

Inflow Area = 4.982 ac, 30.33% Impervious, Inflow Depth = 0.77" for 2-Year event
Inflow = 4.92 cfs @ 11.97 hrs, Volume= 0.320 af
Outflow = 0.12 cfs @ 19.04 hrs, Volume= 0.320 af, Atten= 98%, Lag= 423.9 min
Primary = 0.12 cfs @ 19.04 hrs, Volume= 0.320 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,831.33' Surf.Area= 3,217 sf Storage= 425 cf

Peak Elev= 1,835.48' @ 19.04 hrs Surf.Area= 4,476 sf Storage= 9,544 cf (9,120 cf above start)

Plug-Flow detention time= 953.6 min calculated for 0.310 af (97% of inflow)

Center-of-Mass det. time= 903.4 min (1,765.5 - 862.0)

Volume	Invert	Avail.9	Storage	Storage Description				
#1	1,831.00'	31	1,588 cf	Custom 9	Stage Data (Irreg	ular) Listed below (Recalc)	
Elevatio	n Su	rf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area	
(fee	t)	(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)	
1,831.0	00	3,217	222.2	0.0	0	0	3,217	
1,832.5	0	3,217	222.2	40.0	1,930	1,930	3,550	
1,834.0	0	3,217	222.2	40.0	1,930	3,860	3,884	
1,838.0	0	7,083	359.0	100.0	20,098	23,958	10,317	
1,839.0	0	8,190	378.0	100.0	7,630	31,588	11,490	
Device	Routing	Inve	ert Outle	et Devices				
#1	Primary	1,830.0	00' 24.0 '	" Round	Culvert			
			L= 1	00.0' CPF	P, projecting, no he	eadwall, Ke= 0.90	0	
			Inlet	/ Outlet In	vert= 1,830.00' / 1	,828.00' S= 0.020	00 '/' Cc= 0.900	
			n= 0	.011 PVC	, smooth interior,	Flow Area= 3.14 st	f	
#2	Device 1	1,831.3	3' 1.5"	Vert. Orifi	ice/Grate C= 0.6	00 Limited to wei	r flow at low heads	
#3	Device 2	1,831.0	00' 3.00	0 in/hr Ex	filtration over Su	rface area		
#4	Device 1	1,836.5	50' 24.0 '	" Horiz. O	rifice/Grate C= 0	0.600		
			Limit	ed to weir	flow at low heads			
#5	Secondary	1,836.8		•		Crested Rectang 0 1.00 1.20 1.40		

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1 490 012

2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.12 cfs @ 19.04 hrs HW=1,835.48' (Free Discharge)

1=Culvert (Passes 0.12 cfs of 25.29 cfs potential flow)

—2=Orifice/Grate (Orifice Controls 0.12 cfs @ 9.74 fps)

3=Exfiltration (Passes 0.12 cfs of 0.31 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,831.33' (Free Discharge) 5=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Summary for Pond P6: Lot R43 Soil Filter

Inflow Area = 1.084 ac, 37.36% Impervious, Inflow Depth = 1.10" for 2-Year event

Inflow = 1.73 cfs @ 12.03 hrs, Volume= 0.099 af

Outflow = 0.04 cfs @ 16.47 hrs, Volume= 0.099 af, Atten= 97%, Lag= 265.8 min

Primary = 0.04 cfs @ 16.47 hrs, Volume= 0.099 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,823.33' Surf.Area= 2,234 sf Storage= 295 cf

Peak Elev= 1,826.17' @ 16.47 hrs Surf.Area= 2,372 sf Storage= 3,066 cf (2,771 cf above start)

Plug-Flow detention time= 897.3 min calculated for 0.093 af (93% of inflow)

Avail.Storage Storage Description

Center-of-Mass det. time= 795.8 min (1,637.2 - 841.3)

Invert

Volume

TOIGITIO		0.t 7 tru	c.c.age	o to, ago	Boodinparon		
#1	1,823.0	00'	8,962 cf	Custom	n Stage Data (Irreg	ular)Listed below (Recalc)
Elevation (fee		Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,823.0	00	2,234	252.5	0.0	0	0	2,234
1,824.5	50	2,234	252.5	40.0	1,340	1,340	2,613
1,826.0	00	2,234	252.5	40.0	1,340	2,681	2,992
1,828.0	00	4,145	312.6	100.0	6,281	8,962	5,753
Device	Routing			et Device			
#1	Primary	1,823			d Outlet Culvert		
	L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,823.00' / 1,822.00' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 1.23 sf						
#2	Device 1	1,823	3.33' 1.0"	Vert. Or	ifice/Grate C= 0.6	00 Limited to weil	r flow at low heads
#3	Device 2	2 1,823	3.00' 3.00	0 in/hr E	xfiltration over Su	rface area	
#4	Device 1	1,827	'.80' 24.0	" Horiz.	Orifice/Grate C= 0	0.600	
			Limi	ted to we	ir flow at low heads		

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Primary OutFlow Max=0.04 cfs @ 16.47 hrs HW=1,826.17' (Free Discharge)

-1=Outlet Culvert (Passes 0.04 cfs of 7.44 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.04 cfs @ 8.05 fps)

3=Exfiltration (Passes 0.04 cfs of 0.16 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Summary for Pond P7: Lot R42 Soil Filter

1.546 ac, 30.92% Impervious, Inflow Depth = 0.93" for 2-Year event Inflow Area = Inflow 1.80 cfs @ 12.08 hrs, Volume= 0.119 af 0.07 cfs @ 15.76 hrs, Volume= Outflow 0.119 af, Atten= 96%, Lag= 220.8 min Primary 0.07 cfs @ 15.76 hrs, Volume= 0.119 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,878.33' Surf.Area= 1,972 sf Storage= 260 cf

Peak Elev= 1,881.45' @ 15.76 hrs Surf.Area= 2,217 sf Storage= 3,309 cf (3,048 cf above start)

Plug-Flow detention time= 638.1 min calculated for 0.113 af (95% of inflow)

Center-of-Mass det. time= 574.8 min (1,431.1 - 856.2)

Volume	Invert	Avail.St	orage	Storage D	escription		
#1	1,878.00'	26,0	005 cf	Custom S	Stage Data (Irregu	ılar) Listed below (F	Recalc)
Elevatio			Perim.	Voids	Inc.Store	Cum.Store	Wet.Area
(fee	<u>:t)</u>	(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,878.0	00	1,972	181.3	0.0	0	0	1,972
1,879.5	50	1,972	181.3	40.0	1,183	1,183	2,244
1,881.0	00	1,972	181.3	40.0	1,183	2,366	2,516
1,883.0	00	3,173	219.0	100.0	5,098	7,464	3,782
1,885.0	00	4,600	256.7	100.0	7,729	15,193	5,286
1,887.0	00	6,254	294.4	100.0	10,812	26,005	7,029
Device	Routing	Inver	t Outle	et Devices			
#1	Primary	1,878.00	' 24.0	" Round C	Outlet Culvert		
	_					eadwall, Ke= 0.900	
					-	876.00' S= 0.020	0 '/' Cc= 0.900
				,	Area= 3.14 sf		
#2	Device 1	1,878.33				00 Limited to weir	flow at low heads
#3	Device 2	1,878.00			iltration over Sur		
#4	Device 1	1,882.80	' 24.0	" Horiz. Or	rifice/Grate C= 0	.600	
			Limit	ted to weir t	flow at low heads		
#5	Secondary	1,883.00				Crested Rectangu	
						1.00 1.20 1.40	1.60 1.80 2.00
			2.50	3.00 3.50	4.00 4.50 5.00	5.50	
						2.69 2.68 2.68 2.	66 2.64 2.64
			2.64	2.65 2.65	2.66 2.66 2.68	2.70 2.74	

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Primary OutFlow Max=0.07 cfs @ 15.76 hrs HW=1,881.45' (Free Discharge)

-1=Outlet Culvert (Passes 0.07 cfs of 18.69 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.07 cfs @ 8.44 fps)

3=Exfiltration (Passes 0.07 cfs of 0.15 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,878.33' (Free Discharge) 5=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Summary for Pond P8: Lot R40 Soil Filter

Inflow Area = 1.823 ac, 26.66% Impervious, Inflow Depth = 0.87" for 2-Year event 2.14 cfs @ 12.06 hrs, Volume= Inflow 0.132 af 0.05 cfs @ 19.06 hrs, Volume= Outflow = 0.132 af, Atten= 98%, Lag= 420.2 min 0.05 cfs @ 19.06 hrs, Volume= Primary 0.132 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,924.33' Surf.Area= 2,235 sf Storage= 295 cf

Peak Elev= 1,927.61' @ 19.06 hrs Surf.Area= 2,609 sf Storage= 4,166 cf (3,871 cf above start)

Plug-Flow detention time= 1,069.9 min calculated for 0.126 af (95% of inflow) Center-of-Mass det. time= 984.9 min (1,843.1 - 858.2)

Volume	Invert	Avail.S	Storage	Storage I	Description		
#1	1,924.00'	12	,739 cf	Custom	Stage Data (Irregu	ılar) Listed below (F	Recalc)
Elevatio	n Su	rf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area
(feet		(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,924.0	<u>'</u>	2,235	198.8	0.0	0	0	2,235
1,925.5		2,235	198.8	40.0	1,341	1,341	2,533
1,927.0		2,235	198.8	40.0	1,341	2,682	2,831
1,928.0	0	2,859	217.6	100.0	2,541	5,223	3,488
1,929.0	0	3,828	326.8	100.0	3,332	8,554	8,227
1,930.0	0	4,552	295.9	100.0	4,185	12,739	9,789
Device	Routing	Inve	rt Outle	et Devices	S		
#1	Primary	1,924.0	0' 24.0	" Round	Outlet Culvert		_
	-				P, projecting, no he		
					vert= 1,924.00' / 1,	922.00' S= 0.020	0 '/' Cc= 0.900
				•	w Area= 3.14 sf		
#2	Device 1	1,924.3			ice/Grate C= 0.60		flow at low heads
#3	Device 2	1,924.0			filtration over Sur		
#4	Device 1	1,928.6			Orifice/Grate C= 0	.600	
μг	Casandani	4 000 0			flow at low heads	Cuantad Dantama	·lou \Moin
#5	Secondary	1,929.0			0' breadth Broad-0		
					20 0.40 0.60 0.80		1.60 1.80 2.00
					0 4.00 4.50 5.00		66 0 64 0 64
) 2.43 2.54 2.70		.00 2.04 2.04
			2.64	∠.05 ∠.6	5 2.66 2.66 2.68	2.10 2.14	

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Primary OutFlow Max=0.05 cfs @ 19.06 hrs HW=1,927.61' (Free Discharge)

-1=Outlet Culvert (Passes 0.05 cfs of 19.31 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.05 cfs @ 8.67 fps)

3=Exfiltration (Passes 0.05 cfs of 0.18 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,924.33' (Free Discharge) 5=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Summary for Pond P9: Lot R51 Soil Filter

1.248 ac, 21.63% Impervious, Inflow Depth = 0.81" for 2-Year event Inflow Area = Inflow 1.73 cfs @ 11.98 hrs, Volume= 0.084 af 0.05 cfs @ 15.87 hrs, Volume= Outflow = 0.084 af, Atten= 97%, Lag= 233.2 min 0.05 cfs @ 15.87 hrs, Volume= Primary 0.084 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,941.33' Surf.Area= 1,440 sf Storage= 190 cf

Peak Elev= 1,944.39' @ 15.87 hrs Surf.Area= 1,645 sf Storage= 2,332 cf (2,142 cf above start)

Plug-Flow detention time= 657.1 min calculated for 0.080 af (95% of inflow)

Center-of-Mass det. time= 589.4 min (1,442.9 - 853.5)

Volume	Invert	Avail.	Storage	Storage [Description			
#1	1,941.00'	2	2,064 cf	Custom	Stage Data (Irregı	ular) Listed below (I	Recalc)	
Elevation		urf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area	
(feet		(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)	
1,941.00		1,440	179.7	0.0	0	0	1,440	
1,942.50)	1,440	179.7	40.0	864	864	1,710	
1,944.00)	1,440	179.7	40.0	864	1,728	1,979	
1,946.0)	2,631	217.4	100.0	4,012	5,740	3,235	
1,948.00)	4,049	255.1	100.0	6,629	12,369	4,729	
1,950.00)	5,693	292.8	100.0	9,695	22,064	6,462	
Device	Routing	Inv	ert Outle	et Devices				
#1	Primary	1,940.	00' 24.0 '	" Round	Outlet Culvert			
	•		L= 1	00.0' CPI	P, projecting, no he	eadwall, Ke= 0.900)	
			Inlet	/ Outlet In	vert= 1,940.00' / 1,	938.00' S= 0.020	0 '/' Cc= 0.900	
			n= 0	= 0.013, Flow Area= 3.14 sf				
#2	Device 1	1,941.		,		00 Limited to weir	flow at low heads	
#3	Device 2	1,941.		0 in/hr Ex	filtration over Sui	rface area		
#4	Device 1	1,945.		" Horiz. O	rifice/Grate C= 0	.600		
		, -			flow at low heads			
#5	Secondary	1,945.				Crested Rectangu	ılar Weir	
•	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				0 1.00 1.20 1.40		
					0 4.00 4.50 5.00			
						2.69 2.68 2.68 2	.66 2.64 2.64	
					5 2.66 2.66 2.68			

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Primary OutFlow Max=0.05 cfs @ 15.87 hrs HW=1,944.39' (Free Discharge)

-1=Outlet Culvert (Passes 0.05 cfs of 21.99 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.05 cfs @ 8.37 fps)

3=Exfiltration (Passes 0.05 cfs of 0.11 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,941.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Link SP1:

Inflow Area = 327.994 ac, 5.46% Impervious, Inflow Depth > 0.63" for 2-Year event

Inflow = 86.53 cfs @ 12.59 hrs, Volume= 17.310 af

Primary = 86.53 cfs @ 12.59 hrs, Volume= 17.310 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP10:

Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP11:

Inflow Area = 6.579 ac, 3.57% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 6.60 cfs @ 12.03 hrs, Volume= 0.397 af

Primary = 6.60 cfs @ 12.03 hrs, Volume= 0.397 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP12:

Inflow Area = 20.993 ac, 12.16% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 11.40 cfs @ 12.18 hrs, Volume= 1.260 af

Primary = 11.40 cfs @ 12.18 hrs, Volume= 1.260 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP13:

Inflow Area = 12.275 ac, 33.70% Impervious, Inflow Depth > 0.99" for 2-Year event

Inflow = 0.73 cfs @ 12.05 hrs, Volume= 1.017 af

Primary = 0.73 cfs @ 12.05 hrs, Volume= 1.017 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP14:

Inflow Area = 1.238 ac, 3.31% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 1.06 cfs @ 12.10 hrs, Volume= 0.075 af

Primary = 1.06 cfs @ 12.10 hrs, Volume= 0.075 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP15:

Inflow Area = 27.913 ac, 22.52% Impervious, Inflow Depth = 0.80" for 2-Year event

Inflow = 9.18 cfs @ 12.13 hrs, Volume= 1.858 af

Primary = 9.18 cfs @ 12.13 hrs, Volume= 1.858 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP16:

Inflow Area = 1.173 ac, 3.15% Impervious, Inflow Depth = 0.59" for 2-Year event

Inflow = 0.77 cfs @ 12.11 hrs, Volume= 0.058 af

Primary = 0.77 cfs @ 12.11 hrs, Volume= 0.058 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP17:

Inflow Area = 4.548 ac, 20.07% Impervious, Inflow Depth = 0.71" for 2-Year event

Inflow = 1.78 cfs @ 11.94 hrs, Volume= 0.269 af

Primary = 1.78 cfs @ 11.94 hrs, Volume= 0.269 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP18:

Inflow Area = 0.186 ac, 11.29% Impervious, Inflow Depth = 0.77" for 2-Year event

Inflow = 0.27 cfs @ 11.95 hrs, Volume= 0.012 af

Primary = 0.27 cfs @ 11.95 hrs, Volume= 0.012 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP19:

Inflow Area = 0.648 ac, 3.70% Impervious, Inflow Depth = 0.63" for 2-Year event

Inflow = 0.56 cfs @ 12.05 hrs, Volume= 0.034 af

Primary = 0.56 cfs @ 12.05 hrs, Volume= 0.034 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP2:

Inflow Area = 1.275 ac, 5.49% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 0.89 cfs @ 12.17 hrs, Volume= 0.077 af

Primary = 0.89 cfs @ 12.17 hrs, Volume= 0.077 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP20:

Inflow Area = 50.264 ac, 9.71% Impervious, Inflow Depth = 0.60" for 2-Year event

Inflow = 13.64 cfs @ 12.43 hrs, Volume= 2.525 af

Primary = 13.64 cfs @ 12.43 hrs, Volume= 2.525 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP21:

Inflow Area = 7.874 ac, 25.98% Impervious, Inflow Depth = 0.86" for 2-Year event

Inflow = 0.61 cfs @ 12.06 hrs, Volume= 0.565 af

Primary = 0.61 cfs @ 12.06 hrs, Volume= 0.565 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP22:

Inflow Area = 0.328 ac, 7.62% Impervious, Inflow Depth = 0.77" for 2-Year event

Inflow = 0.35 cfs @ 12.05 hrs, Volume= 0.021 af

Primary = 0.35 cfs @ 12.05 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP23:

Inflow Area = 2.727 ac, 29.63% Impervious, Inflow Depth = 1.03" for 2-Year event

Inflow = 0.58 cfs @ 12.01 hrs, Volume= 0.234 af

Primary = 0.58 cfs @ 12.01 hrs, Volume= 0.234 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP24:

Inflow Area = 13.779 ac, 3.95% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 10.49 cfs @ 12.14 hrs, Volume= 0.831 af

Primary = 10.49 cfs @ 12.14 hrs, Volume= 0.831 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP3:

Inflow Area = 4.241 ac, 25.14% Impervious, Inflow Depth = 1.00" for 2-Year event

Inflow = 0.31 cfs @ 12.07 hrs, Volume= 0.354 af

Primary = 0.31 cfs @ 12.07 hrs, Volume= 0.354 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP4:

Inflow Area = 62.647 ac, 2.01% Impervious, Inflow Depth = 0.64" for 2-Year event

Inflow = 20.35 cfs @ 12.12 hrs, Volume= 3.329 af

Primary = 20.35 cfs @ 12.12 hrs, Volume= 3.329 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP5:

Inflow Area = 2.355 ac, 0.51% Impervious, Inflow Depth = 0.68" for 2-Year event

Inflow = 1.34 cfs @ 12.23 hrs, Volume= 0.133 af

Primary = 1.34 cfs @ 12.23 hrs, Volume= 0.133 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP6:

Inflow Area = 75.057 ac, 9.07% Impervious, Inflow Depth = 0.67" for 2-Year event

Inflow = 30.78 cfs @ 12.18 hrs, Volume= 4.198 af

Primary = 30.78 cfs @ 12.18 hrs, Volume= 4.198 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP7:

Inflow Area = 0.872 ac, 6.42% Impervious, Inflow Depth = 0.72" for 2-Year event

Inflow = 0.83 cfs @ 12.06 hrs, Volume= 0.053 af

Primary = 0.83 cfs @ 12.06 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP8:

Inflow Area = 0.344 ac, 19.19% Impervious, Inflow Depth = 0.87" for 2-Year event

Inflow = 0.43 cfs @ 12.04 hrs, Volume= 0.025 af

Primary = 0.43 cfs @ 12.04 hrs, Volume= 0.025 af, Atten= 0%, Lag= 0.0 min

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Type II 24-hr 2-Year Rainfall=2.40" Printed 9/24/2021

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Summary for Link SP9:

Inflow Area = 0.148 ac, 24.32% Impervious, Inflow Depth = 0.93" for 2-Year event

Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.011 af

Primary = 0.20 cfs @ 12.04 hrs, Volume= 0.011 af, Atten= 0%, Lag= 0.0 min

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Summary for Subcatchment 1S: WS 3

Runoff = 0.39 cfs @ 12.06 hrs, Volume= 0.024 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 10-Year Rainfall=3.40"

Area	(ac) (ON De	scription							
0.	000	98 Unt	reated exis	ting imperv	rious, HSG A					
0.	000	98 Unt	Intreated existing impervious, HSG C							
0.	037	98 Unt	ntreated existing impervious, HSG D							
0.	000	98 Exi	xisting impervious to be treated as offset, HSG D							
0.					azed, HSG A					
0.	000	71 Exi	sting mead	ow, non-gra	azed, HSG C					
0.			sting mead	ow, non-gra	azed, HSG D					
0.	000	30 Exi	sting Wood	s, Good, H	SG A					
0.	000	70 Exi	sting Wood	s, Good, H	SG C					
0.	032	77 Exi	sting Wood	s, Good, H	SG D					
0.	000	70 Pro	posed Woo	ds, Good,	HSG C					
0.			posed Woo	ds, Good,	HSG D					
0.			posed impe	ervious to b	e treated, HSG C					
0.			posed impe	ervious to b	e treated, HSG D					
					rvious, HSG C					
					rvious, HSG D					
			Proposed developed meadow, non-grazed, HSG C							
					idow, non-grazed, HSG D					
					ndow to be treated, HSG C					
					ndow to be treated, HSG D					
			posed mea							
			posed mea		·					
			posed mea							
0.	000	78 Pro	posed mea	dow, ski lift	t, HSG D					
			ighted Aver							
	135	78.	49% Pervio	us Area						
0.	037	21.	51% Imper	ious Area						
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	•	(cfs)	Boothplion					
10.8	74	0.3500	0.11	, ,	Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
3.4	115	0.0500	0.56		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
14.2	189	Total								

Summary for Subcatchment 2S: WS 1

Runoff = 2.76 cfs @ 12.54 hrs, Volume= 0.403 af, Depth= 1.36"

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Area	(ac) C	N Des	cription					
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A			
0.	0.000 98 Untreated existing impervious, HSG C							
0.019 98 Untreated existing impervious, HSG D								
0.000 98 Existing impervious to be treated as offset, HSG D								
0.000 30 Existing meadow, non-grazed, HSG A								
0.000 71 Existing meadow, non-grazed, HSG C								
0.000 78 Existing meadow, non-grazed, HSG D								
0.000 30 Existing Woods, Good, HSG A								
0.000 70 Existing Woods, Good, HSG C 3.414 77 Existing Woods, Good, HSG D								
			_					
			Proposed Woods, Good, HSG C Proposed Woods, Good, HSG D					
			Proposed impervious to be treated, HSG C					
			Proposed impervious to be treated, HSG D Untreated proposed impervious, HSG C					
					rvious, HSG D			
					idow, non-grazed, HSG C			
					idow, non-grazed, HSG D			
					idow, non-grazed, noo b			
				•	idow to be treated, HSG D			
				dow, ski tra				
				dow, ski tra				
				dow, ski lift				
	0.000 78 Proposed meadow, ski lift, HSG D							
3.	3.567 77 Weighted Average							
3.548 99.47% Pervious Area								
0.019 0.53% Impervious Area								
Tc	Length		Velocity	Capacity	Description			
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)				
10.7	37	0.0900	0.06		Sheet Flow,			
					Woods: Dense underbrush n= 0.800 P2= 2.40"			
8.0	102	0.0900	2.10		Shallow Concentrated Flow,			
					Short Grass Pasture Kv= 7.0 fps			
36.2	150	0.0700	0.07		Sheet Flow,			
0.0	400	0.0000	0.75		Woods: Dense underbrush n= 0.800 P2= 2.40"			
3.0	133	0.0900	0.75		Shallow Concentrated Flow,			
0.0	420	0.0000	10.40	450.00	Forest w/Heavy Litter Kv= 2.5 fps			
0.2	130	0.0600	10.43	458.93	Trap/Vee/Rect Channel Flow,			
					Bot.W=20.00' D=2.00' Z= 1.0 '/' Top.W=24.00' n= 0.050			
0.8	505	0.0600	10.43	458.93	Trap/Vee/Rect Channel Flow,			
0.0	505	0.0000	10.43	+30.33	Bot.W=20.00' D=2.00' Z= 1.0 '/' Top.W=24.00'			
					n= 0.050			
51.7	1,065	Total			11 0.000			
51.7	1,000	i Utai						

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Summary for Subcatchment 3S: WS 1-1

Runoff = 2.90 cfs @ 12.10 hrs, Volume= 0.205 af, Depth= 1.36"

0.000	Area	(ac)	C١	l Desc	cription					
0.000	0	.000	98	3 Untr	eated exis	ting imperv	rious, HSG A			
0.000 98 Existing impervious to be treated as offset, HSG D 0.000 30 Existing meadow, non-grazed, HSG A 0.000 78 Existing meadow, non-grazed, HSG D 0.000 78 Existing meadow, non-grazed, HSG D 0.000 70 Existing Woods, Good, HSG C 0.863 77 Existing Woods, Good, HSG D 0.000 70 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D 0.000 98 Proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG D 0.000 72 Proposed developed meadow to be treated, HSG D 0.000 73 Proposed meadow, ski trail, HSG C 0.479 78 Proposed meadow, ski trail, HSG D 0.000 71 Proposed meadow, ski lift, HSG D 1.814 77 Weighted Average	0	.000	98							
0.000 30 Existing meadow, non-grazed, HSG A 0.000 71 Existing meadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG A 0.000 70 Existing Woods, Good, HSG D 0.000 70 Proposed Woods, Good, HSG D 0.000 70 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG D 0.000 78 Proposed developed meadow, non-grazed, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed meadow, ski trail, HSG C 0.000 71 Proposed meadow, ski trail, HSG D 0.479 78 Proposed meadow, ski lift, HSG D 1.814 77 Weighted Average <t< td=""><td>0</td><td>.000</td><td>98</td><td>3 Untr</td><td colspan="6"></td></t<>	0	.000	98	3 Untr						
0.000	0	.000	98							
0.000 78 Existing Meadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG C 0.000 70 Existing Woods, Good, HSG D 0.000 70 Proposed Woods, Good, HSG D 0.000 70 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG D 0.000 78 Proposed developed meadow, non-grazed, HSG D 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 78 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG D 0.000 71 Proposed meadow, ski lift, HSG D 0.479 78 Proposed meadow, ski lift, HSG D 1.814 77 Weighted Average 1.814 77 Weighted Average	0	.000	30) Exis						
0.000 30	0	.000	71	1 Exis						
0.000 70 Existing Woods, Good, HSG C 0.863 77 Existing Woods, Good, HSG C 0.000 70 Proposed Woods, Good, HSG D 0.472 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Untreated proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG D 0.000 78 Proposed developed meadow, non-grazed, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed meadow, ski trail, HSG C 0.479 78 Proposed meadow, ski trail, HSG D 0.000 71 Proposed meadow, ski lift, HSG D 1.814 77 Weighted Average 1.814 77 Weighted Average 1.814 70 O.0800 0.18 Sheet Flow, Grass: Dense n = 0.240 P2= 2.40"	0	.000	78	B Exist						
0.863 77 Existing Woods, Good, HSG D 0.000 70 Proposed Woods, Good, HSG C 0.472 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG D 0.000 98 Proposed impervious, HSG C 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed meadow ski trail, HSG C 0.000 71 Proposed meadow, ski trail, HSG D 0.000 71 Proposed meadow, ski lift, HSG D 0.000 73 Proposed meadow, ski lift, HSG D 1.814 77 Weighted Average 1.814 77 Weighted Average 1.814 100.00% Pervious Area Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Shallow Concentrated Flow, Forest W/Heavy Litter Kv= 2.5 fps	0	.000	30) Exis						
0.000 70 Proposed Woods, Good, HSG D 0.472 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG D 0.000 98 Proposed impervious, HSG C 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed meadow, ski trail, HSG C 0.000 71 Proposed meadow, ski trail, HSG D 0.479 78 Proposed meadow, ski lift, HSG D 0.000 71 Proposed meadow, ski lift, HSG D 0.000 71 Proposed meadow, ski lift, HSG D 1.814 77 Weighted Average 1.814 77 Weighted Average 1.814 Slope Velocity Capacity (ft/ft) (ft/sec) (cfs) Description 9.5 100 0.0800 0.18 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrate	0	.000	70) Exis						
0.472 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG D 0.000 98 Proposed impervious to be treated, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed meadow, ski trail, HSG C 0.000 71 Proposed meadow, ski lift, HSG D 0.000 71 Proposed meadow, ski lift, HSG D 0.000 72 Proposed meadow, ski lift, HSG D 1.814 77 Weighted Average 1.814 77 Weighted Average 1.814 77 Weighted Average 1.816 (ft/ft) (ft/sec) (cfs) Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps	0	.863	77	7 Exis	ting Wood	s, Good, H	SG D			
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Tc Length (min) Slope (ft/ft) Velocity (ft/sec) Capacity (cfs) Description 9.5 100 0.0800 0.18 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" 0.9 105 0.0800 1.98 Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps 0.6 60 0.4700 1.71 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 6.3 328 0.1200 0.87 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps	1	.814	77	7 Weig	ghted Aver	age				
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Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps	9.5	10	00	0.0800		•	Sheet Flow.			
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Forest w/Heavy Litter Kv= 2.5 fps 6.3 328 0.1200 0.87 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps	0.6	(60	0.4700	1.71		· · · · · · · · · · · · · · · · · · ·			
6.3 328 0.1200 0.87 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps	3.0				••••		· ·			
Forest w/Heavy Litter Kv= 2.5 fps	6.3	3:	28	0.1200	0.87					
			-				· · · · · · · · · · · · · · · · · · ·			
17.3 593 Total	17.3	59	93	Total						

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Summary for Subcatchment 4S: WS 1-2

Runoff = 4.59 cfs @ 12.04 hrs, Volume= 0.270 af, Depth= 1.42"

Area	(ac) (CN De	scription						
0.	.000	98 Unt	Untreated existing impervious, HSG A						
			Untreated existing impervious, HSG C						
0.	.000		Untreated existing impervious, HSG D						
0.	.000	98 Existing impervious to be treated as offset, HSG D							
0.	.000	30 Exi	Existing meadow, non-grazed, HSG A						
0.	.000	71 Exi	Existing meadow, non-grazed, HSG C						
0.	.000	78 Exi	Existing meadow, non-grazed, HSG D						
			Existing Woods, Good, HSG A						
			Existing Woods, Good, HSG C						
	0.685 77 Existing Woods, Good, HSG D								
	0.000 70 Proposed Woods, Good, HSG C								
	0.351 77 Proposed Woods, Good, HSG D								
	0.000 98 Proposed impervious to be treated, HSG C								
	0.000 98 Proposed impervious to be treated, HSG D								
					ervious, HSG C				
					ervious, HSG D				
					adow, non-grazed, HSG C				
					adow, non-grazed, HSG D				
	0.000 71 Proposed developed meadow to be treated, HSG C								
	0.000 78 Proposed developed meadow to be treated, HSG D								
	0.000 71 Proposed meadow, ski trail, HSG C								
	1.114 78 Proposed meadow, ski trail, HSG D 0.000 71 Proposed meadow, ski lift, HSG C								
			posed mea		เ, ทอษ บ				
			ighted Ave						
2.280 99.91% Pervious Area 0.002 0.09% Impervious Area									
U.	.002	0.0	9% impervi	ous Area					
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	•		(cfs)	Description				
9.5	100			(013)	Sheet Flow,				
9.5	100	0.0000	0.10		Grass: Dense n= 0.240 P2= 2.40"				
1.6	194	0.0800	1.98		Shallow Concentrated Flow,				
1.0	134	0.0000	1.90		Short Grass Pasture Kv= 7.0 fps				
0.5	53	0.4900	1.75		Shallow Concentrated Flow,				
0.0	55	0.7000	1.70		Forest w/Heavy Litter Kv= 2.5 fps				
0.4	327	0.1000	13.40	563.00					
0.1	021	3.1000	70.10	555.50	Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00'				
					n= 0.050				
12.0	674	Total							
•									

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Summary for Subcatchment 5S: WS 1-3

Runoff = 12.10 cfs @ 12.14 hrs, Volume= 0.944 af, Depth= 1.36"

Area	(ac) (CN Des	cription						
0.	.000	98 Unti	Untreated existing impervious, HSG A						
0.	.000	98 Unti	Untreated existing impervious, HSG C						
0.	.000	98 Unti							
0.	000 98 Existing impervious to be treated as offset, HSG D								
0.	0.000 30 Existing meadow, non-grazed, HSG A								
0.	0.000 71 Existing meadow, non-grazed, HSG C								
0.000 78 Existing meadow, non-grazed, HSG D									
	0.000 30 Existing Woods, Good, HSG A								
0.	0.000 70 Existing Woods, Good, HSG C								
3.	3.319 77 Existing Woods, Good, HSG D								
0.	.000	70 Prop	oosed Woo	ds, Good,	HSG C				
0.	0.938 77 Proposed Woods, Good, HSG D								
					e treated, HSG C				
	.000				oe treated, HSG D				
	0.000 98 Untreated proposed impervious, HSG C								
	0.000 98 Untreated proposed impervious, HSG D								
	0.000 71 Proposed developed meadow, non-grazed, HSG C								
	0.000 78 Proposed developed meadow, non-grazed, HSG D								
0.000 71 Proposed developed meadow to be treated, HSG C									
	0.000 78		Proposed developed meadow to be treated, HSG D						
	.000		Proposed meadow, ski trail, HSG C						
	.092		Proposed meadow, ski trail, HSG D						
	0.000 7		Proposed meadow, ski lift, HSG C						
	.000			dow, ski lif	t, HSG D				
	8.349 77 Weighted Average								
8.	.349	100	.00% Perv	ous Area					
_		-							
Tc	Length		Velocity	Capacity	Description				
(min)	(feet)		(ft/sec)	(cfs)					
7.0	100	0.1700	0.24		Sheet Flow,				
					Grass: Dense n= 0.240 P2= 2.40"				
3.4	596	0.1700	2.89		Shallow Concentrated Flow,				
					Short Grass Pasture Kv= 7.0 fps				
10.1	585	0.1500	0.97		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
20.5	1,281	Total							

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Summary for Subcatchment 6S: WS 1-4

Runoff = 25.23 cfs @ 12.28 hrs, Volume= 2.621 af, Depth= 1.29"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
2.284	70	Existing Woods, Good, HSG C
8.316	77	Existing Woods, Good, HSG D
0.588	70	Proposed Woods, Good, HSG C
1.175	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.088	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.085	71	Proposed meadow, ski trail, HSG C
6.341	78	Proposed meadow, ski trail, HSG D
0.360	71	Proposed meadow, ski lift, HSG C
2.079	78	Proposed meadow, ski lift, HSG D
24.316	76	Weighted Average
24.228		99.64% Pervious Area
0.088		0.36% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
_	10.7	51	0.1700	0.08	, ,	Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	4.8	294	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.4	760	0.1700	2.89		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	3.0	482	0.1500	2.71		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.5	447	0.1800	2.97		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	4.1	637	0.1400	2.62		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.1	138	0.1900	1.09		Shallow Concentrated Flow,
_						Forest w/Heavy Litter Kv= 2.5 fps
	31.6	2,809	Total			

Summary for Subcatchment 7S: WS 1-5

Runoff = 37.15 cfs @ 12.55 hrs, Volume= 5.604 af, Depth= 1.11"

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 rea (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.022	98	Untreated existing impervious, HSG C
0.021	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
3.752	71	Existing meadow, non-grazed, HSG C
6.694	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
23.036	70	Existing Woods, Good, HSG C
11.631	77	Existing Woods, Good, HSG D
2.098	70	Proposed Woods, Good, HSG C
0.523	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.008	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.186	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
7.773	71	Proposed meadow, ski trail, HSG C
4.678	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
 0.000	78	Proposed meadow, ski lift, HSG D
60.422	73	Weighted Average
60.371		99.92% Pervious Area
0.051		0.08% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
3.8	237	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.2	276	0.1900	1.09		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.7	148	0.0700	0.66		Shallow Concentrated Flow,
0.0	400	0.4500	0.07		Forest w/Heavy Litter Kv= 2.5 fps
6.9	402	0.1500	0.97		Shallow Concentrated Flow,
4.5	396	0.3500	1.48		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
4.5	390	0.3300	1.40		Forest w/Heavy Litter Kv= 2.5 fps
3.9	373	0.4000	1.58		Shallow Concentrated Flow,
0.5	010	0.4000	1.00		Forest w/Heavy Litter Kv= 2.5 fps
4.1	334	0.3000	1.37		Shallow Concentrated Flow,
•••	00.	0.0000	1.01		Forest w/Heavy Litter Kv= 2.5 fps
4.7	331	0.2200	1.17		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.4	341	0.2300	15.69	156.92	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.4	396	0.2200	15.35	153.47	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.4	367	0.2300	15.69	156.92	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.5	204	0.1900	14.06	140.60	n= 0.050
0.5	394	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow, Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.4	361	0.1800	13.88	138.82	Trap/Vee/Rect Channel Flow,
0.1	001	0.1000	10.00	100.02	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.3	252	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/ Top.W=7.00'
					n= 0.050
0.4	333	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.5	440	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.0	450	0.4000	40.00	400.00	n= 0.050
0.6	459	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	33/	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
0.4	334	0.1700	13.43	104.81	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
51.0	6,226	Total			0.000
51.0	5,220	i Jiai			

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Summary for Subcatchment 8S: WS 1-6

Runoff = 2.18 cfs @ 11.93 hrs, Volume= 0.094 af, Depth= 1.70"

Area	(ac)	CN	Desc	cription		
0.	.000	98	Untre	eated exis	ting imperv	rious, HSG A
0.	.000	98				rious, HSG C
0.	.000	98				rious, HSG D
0.	.000	98	Exist	ting imperv	vious to be	treated as offset, HSG D
0.	.000	30	Exist	ting meado	ow, non-gra	azed, HSG A
0.	.000	71	Exist	ting meado	ow, non-gra	azed, HSG C
	.000	78				azed, HSG D
0.	.000	30	Exist	ting Wood	s, Good, H	SG A
	.000	70	Exist	ting Wood	s, Good, H	SG C
	.000	77			s, Good, H	
0.	.000	70	Prop	osed Woo	ds, Good,	HSG C
	.000	77			ds, Good,	
	.181	98				e treated, HSG C
	.050	98				e treated, HSG D
	.000	98				rvious, HSG C
	.000	98				rvious, HSG D
	.000	71				idow, non-grazed, HSG C
	.000	78				idow, non-grazed, HSG D
	.262	71				dow to be treated, HSG C
	.111	78				dow to be treated, HSG D
	.056	71			dow, ski tra	
	.000	78			dow, ski tra	
	.000	71			dow, ski lift	
	.000	78			dow, ski lift	t, HSG D
	.660	82		ghted Aver		
	.429			0% Pervio		
0.	.231		35.0	0% Imper\	ious Area	
т.	1	L	Ol	\	0	Description
Tc	Lengt		Slope	Velocity	Capacity	Description
<u>(min)</u>	(feet	•	(ft/ft)	(ft/sec)	(cfs)	
1.4	10	0 0	.0200	1.19		Sheet Flow,
0.5	0	^ ^	0200	0.00		Smooth surfaces n= 0.011 P2= 2.40"
0.5	8	U U	.0300	2.60		Shallow Concentrated Flow,
0.0	10	7 0	1200	10.01	0.00	Grassed Waterway Kv= 15.0 fps
0.2	10	<i>i</i> 0	.1200	10.21	8.02	Pipe Channel, 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25'
- 0.4	20	, ,	'oto!			n= 0.020 Corrugated PE, corrugated interior
2.1	28	/ I	otal			

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Summary for Subcatchment 9S: WS 1-7

Runoff = 27.78 cfs @ 12.31 hrs, Volume= 3.041 af, Depth= 1.17"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
10.166	70	Existing Woods, Good, HSG C
8.946	77	Existing Woods, Good, HSG D
1.118	70	Proposed Woods, Good, HSG C
1.643	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.068	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.838	71	Proposed meadow, ski trail, HSG C
5.370	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
31.149	74	Weighted Average
31.081		99.78% Pervious Area
0.068		0.22% Impervious Area

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	Тс	Length	Slope	•	Capacity	Description
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	5.8	100	0.2700	0.29		Sheet Flow,
						n= 0.240 P2= 2.40"
	1.0	229	0.2700	3.64		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.5	216	0.3200	1.41		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	5.1	483	0.4000	1.58		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.1	251	0.2900	1.35		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	1.5	311	0.2300	3.36		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	4.1	863	0.2500	3.50		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.2	956	0.2100	7.19	21.56	Trap/Vee/Rect Channel Flow, ditch
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.069 Riprap, 6-inch
	7.1	413	0.1500	0.97		Shallow Concentrated Flow,
	0.0	500	0.4500	10.10	0.4.50	Forest w/Heavy Litter Kv= 2.5 fps
	8.0	509	0.1500	10.18	91.58	Trap/Vee/Rect Channel Flow,
						Bot.W=8.00' D=1.00' Z= 1.0 '/' Top.W=10.00'
_						n= 0.050
	33.2	4,331	Total			

Summary for Subcatchment 10S: WS 1A

Runoff = 3.62 cfs @ 12.24 hrs, Volume= 0.348 af, Depth= 1.36"

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Area	a (ac)	CN	Desc	cription					
(0.000	98	Untre	eated exis	ting imperv	ious, HSG A			
	0.000								
	0.000 98 Untreated existing impervious, HSG D								
0.000 98 Existing impervious to be treated as offset, HSG D									
	0.000 30 Existing meadow, non-grazed, HSG A								
	0.000	71				azed, HSG C			
	0.000	78				azed, HSG D			
	0.000 0.000	30 70		•	s, Good, H\$ s, Good, H\$				
	3.076	77		•	s, Good, H				
	0.000	70		•	ds, Good, I				
	0.000	77			ds, Good, I				
	0.000	98				e treated, HSG C			
	0.000	98				e treated, HSG D			
(0.000	98				rvious, HSG C			
(0.000	98				rvious, HSG D			
	0.000	71				dow, non-grazed, HSG C			
	0.000	78				dow, non-grazed, HSG D			
	0.000	71				dow to be treated, HSG C			
	0.000	78				dow to be treated, HSG D			
	0.000	71			dow, ski tra				
	0.000 0.000	78 71			dow, ski tra dow, ski lift				
	0.000	78			dow, ski lift dow, ski lift				
	3.076	77		hted Aver		, 1100 B			
	3.076	' '	_	00% Pervi	•				
`									
Tc	Lengt	th	Slope	Velocity	Capacity	Description			
(min)	(fee	t)	(ft/ft)	(ft/sec)	(cfs)	·			
10.9	3	1 0	0.0600	0.05		Sheet Flow,			
						Woods: Dense underbrush n= 0.800 P2= 2.40"			
5.2	19	1 0	0.0600	0.61		Shallow Concentrated Flow,			
	_					Forest w/Heavy Litter Kv= 2.5 fps			
1.1	5	9 0).1400	0.94		Shallow Concentrated Flow,			
4.0	40		0700	0.00		Forest w/Heavy Litter Kv= 2.5 fps			
4.9	19	3 U	0.0700	0.66		Shallow Concentrated Flow,			
4.1	16	1 0	0.0700	0.66		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,			
4.1	10	, ,	7.0700	0.00		Forest w/Heavy Litter Kv= 2.5 fps			
2.2	10	7 0	.1100	0.83		Shallow Concentrated Flow,			
۷.۷	10			0.00		Forest w/Heavy Litter Kv= 2.5 fps			
0.1	7	9 0	0.0500	9.26	314.98	Trap/Vee/Rect Channel Flow,			
		_				Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'			
						n= 0.050			
28.5	82	1 T	otal						

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Summary for Subcatchment 11S: WS 1B

Runoff = 11.90 cfs @ 12.10 hrs, Volume= 0.816 af, Depth= 1.49"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.425	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.072	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
5.568	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.084	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.429	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.578	79	Weighted Average
6.069		92.26% Pervious Area
0.509		7.74% Impervious Area

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To Length	Slone Ve	locity Canacity	Description	

	Tc	Length	Slope	Velocity	Capacity	Description
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	10.9	38	0.0900	0.06		Sheet Flow,
	a =	000		7.00	00.75	Woods: Dense underbrush n= 0.800 P2= 2.40"
	0.7	336	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041 Riprap, 2-inch
	0.7	339	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	8.0	336	0.0700	6.98	20.95	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.7	278	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.7	283	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.3	118	0.0800	7.46	22.39	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.4	164	0.0700	6.98	20.95	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.1	83	0.1400	9.87	29.62	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	1.3	505	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_						n= 0.041
	16.6	2,480	Total			

2,480 Total

Summary for Subcatchment 12S: WS 1B1 - Lot G

8.49 cfs @ 11.93 hrs, Volume= 0.368 af, Depth= 1.85" Runoff

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Area	(ac) (CN Des	scription					
0.	000	98 Unt	reated exis	ting imperv	rious, HSG A			
0.	0.000 98 Untreated existing impervious, HSG C							
0.	0.000 98 Untreated existing impervious, HSG D							
0.	000	98 Exis	sting imper	vious to be	treated as offset, HSG D			
0.	000	30 Exis	sting mead	ow, non-gra	azed, HSG A			
0.	000	71 Exis	sting mead	ow, non-gra	azed, HSG C			
0.	000	78 Exis	sting mead	ow, non-gra	azed, HSG D			
0.	000	30 Exis	sting Wood	s, Good, H	SG A			
0.	000	70 Exis	sting Wood	s, Good, H	SG C			
			sting Wood					
			posed Woo	ods, Good,	HSG C			
			posed Woo					
					pe treated, HSG C			
					pe treated, HSG D			
					ervious, HSG C			
					ervious, HSG D			
					adow, non-grazed, HSG C			
					adow, non-grazed, HSG D			
					adow to be treated, HSG C			
					adow to be treated, HSG D			
			posed mea					
			posed mea					
			posed mea					
			posed mea		t, HSG D			
			ighted Aveı					
	620		92% Pervio					
0.	765	32.	08% Imper	vious Area				
_								
Tc	Length			Capacity	Description			
(min)	(feet)			(cfs)				
1.4	100	0.0200	1.19		Sheet Flow,			
					Smooth surfaces n= 0.011 P2= 2.40"			
0.5	81	0.0200	2.87		Shallow Concentrated Flow,			
					Paved Kv= 20.3 fps			
0.3	304	0.1000	15.55	46.66	Trap/Vee/Rect Channel Flow,			
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
					n= 0.022			
2.2	485	Total						

Summary for Subcatchment 13S: WS 1C

Runoff = 3.94 cfs @ 12.17 hrs, Volume= 0.329 af, Depth= 1.36"

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Area ((ac) C	N Desc	cription								
0.0	000	8 Untr	eated exis	ting imperv	ious, HSG A						
			Jntreated existing impervious, HSG C								
			Intreated existing impervious, HSG D								
			Existing impervious to be treated as offset, HSG D								
					azed, HSG A						
					azed, HSG C						
					azed, HSG D						
			•	s, Good, H							
				s, Good, H							
				s, Good, H							
				ds, Good,							
				ds, Good,							
					e treated, HSG C						
			osed impe	ervious to b	e treated, HSG D						
0.0	000	8 Untro	eated prop	osed impe	rvious, HSG C						
0.0	000	8 Untr	eated prop	osed impe	rvious, HSG D						
0.0	000 7	'1 Prop	osed deve	loped mea	dow, non-grazed, HSG C						
0.0	053 7				dow, non-grazed, HSG D						
					dow to be treated, HSG C						
					dow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lift dow, ski lift							
				dow, ski lift dow, ski lift							
2.9	908 7	77 Weid	hted Aver	age							
	908		, 00% Pervi								
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Doodiption						
				(013)	Chaot Flour						
10.6	100	0.0600	0.16		Sheet Flow,						
4.0	400	0.0000	4 74		Grass: Dense n= 0.240 P2= 2.40"						
1.2	122	0.0600	1.71		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
0.4	46	0.4800	1.73		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
4.9	221	0.0900	0.75		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
3.2	154	0.1000	0.79		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
0.6	283	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow,						
				_	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.041						
2.0	88	0.0900	0.75		Shallow Concentrated Flow,						
2.0	00	0.000	3 0		Forest w/Heavy Litter Kv= 2.5 fps						
	1,014	Total			1 01000 Till Today Ettor Tiv Z.O 190						
22.9		I CALCAI									

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Summary for Subcatchment 14S: WS 1C1

Runoff = 30.17 cfs @ 12.12 hrs, Volume= 2.204 af, Depth= 1.70"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
3.283	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
3.459	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
6.788	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.702	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.321	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.998	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
15.551	82	Weighted Average
12.268		78.89% Pervious Area
3.283		21.11% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	48	0.1500	0.07	, ,	Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
0.5	172	0.1500	6.24		Shallow Concentrated Flow,
					Unpaved Kv= 16.1 fps
1.7	164	0.0500	1.57		Shallow Concentrated Flow,
0.0	77	0.0400	2.00		Short Grass Pasture Kv= 7.0 fps
0.3	77	0.3100	3.90		Shallow Concentrated Flow,
0.4	157	0.0600	6.46	19.39	Short Grass Pasture Kv= 7.0 fps Trap/Vee/Rect Channel Flow,
0.4	137	0.0000	0.40	19.39	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
0.9	350	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
0.0	000	0.0000	0.10	.0.00	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
0.5	219	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
0.5	251	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
0.8	316	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.1	72	0.4000	11 EO	24.54	n= 0.041
0.1	73	0.1900	11.50	34.51	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
0.7	300	0.0700	6.98	20.95	Trap/Vee/Rect Channel Flow,
0.7	000	0.0700	0.50	20.55	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
0.8	179	0.0200	3.73	11.20	Trap/Vee/Rect Channel Flow,
				_	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
1.0	342	0.0500	5.90	17.70	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.041
18.9	2,648	Total			

Summary for Subcatchment 15S: WS 1C2- Ex lot E

Runoff = 22.46 cfs @ 11.96 hrs, Volume= 1.074 af, Depth= 2.18"

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Area ((ac) C	N Des	cription								
		98 Untr	Jntreated existing impervious, HSG A								
0.0	000		Intreated existing impervious, HSG C								
0.0	000		Intreated existing impervious, HSG D								
3.	136				treated as offset, HSG D						
0.0	000 3	30 Exis	ting meado	ow, non-gra	azed, HSG A						
0.0	000 7	1 Exis	ting meado	ow, non-gra	azed, HSG C						
0.	703 7	78 Exis	ting meado	ow, non-gra	azed, HSG D						
0.0	000 3	30 Exis	ting Wood	s, Good, H	SG A						
				s, Good, H							
			•	s, Good, H							
				ds, Good,							
				ds, Good,							
			•		e treated, HSG C						
			•		e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					dow, non-grazed, HSG C						
				•	dow, non-grazed, HSG D						
					dow to be treated, HSG C						
					dow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lift dow, ski lift							
					I, N3G D						
	919 8 783		ghted Aver 2% Pervio								
	703 136			us Area ∕ious Area							
3.	130	32.9	0 /0 IIIIpei v	nous Area							
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Boompaon						
1.0	100	0.0500	1.72	(0.0)	Sheet Flow,						
1.0	100	0.0000	1.72		Smooth surfaces n= 0.011 P2= 2.40"						
0.4	90	0.0500	3.60		Shallow Concentrated Flow,						
0.1	00	0.0000	0.00		Unpaved Kv= 16.1 fps						
1.2	114	0.3900	1.56		Shallow Concentrated Flow,						
		0.000			Forest w/Heavy Litter Kv= 2.5 fps						
1.3	356	0.0300	4.57	13.71	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.041						
1.2	195	0.0300	2.79		Shallow Concentrated Flow,						
					Unpaved Kv= 16.1 fps						
0.1	31	0.3900	10.05		Shallow Concentrated Flow,						
					Unpaved Kv= 16.1 fps						
5.2	886	Total									

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Summary for Subcatchment 16S: WS 1D- Ex Timbers

Runoff = 43.85 cfs @ 12.57 hrs, Volume= 6.599 af, Depth= 1.29"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
4.120	98	Untreated existing impervious, HSG C
1.443	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
13.418	71	Existing meadow, non-grazed, HSG C
9.815	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
16.186	70	Existing Woods, Good, HSG C
12.572	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.473	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.008	98	Untreated proposed impervious, HSG C
0.044	98	Untreated proposed impervious, HSG D
0.454	71	Proposed developed meadow, non-grazed, HSG C
1.984	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.717	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
61.234	76	Weighted Average
55.619		90.83% Pervious Area
5.615		9.17% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	60	0.2300	0.09		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	130	0.2300	1.20		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.6	182	0.2200	1.17		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.6	394	0.2200	1.17		Shallow Concentrated Flow,
4.4	200	0.0000	4.40		Forest w/Heavy Litter Kv= 2.5 fps
4.4	298	0.2000	1.12		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
3.9	183	0.1000	0.79		Shallow Concentrated Flow,
0.0	100	0.1000	0.73		Forest w/Heavy Litter Kv= 2.5 fps
3.4	230	0.2000	1.12		Shallow Concentrated Flow,
0	200	0.2000			Forest w/Heavy Litter Kv= 2.5 fps
0.5	254	0.1000	8.17	114.37	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.069 Riprap, 6-inch
0.3	159	0.1300	9.31	130.40	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.069 Riprap, 6-inch
0.3	160	0.1100	8.57	119.95	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
	405	0.0500	4.05		n= 0.069 Riprap, 6-inch
2.2	165	0.2500	1.25		Shallow Concentrated Flow,
2.0	045	0.0000	4.07		Forest w/Heavy Litter Kv= 2.5 fps
3.2	245	0.2600	1.27		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
0.4	102	0.1000	8.17	114.37	Trap/Vee/Rect Channel Flow,
0.4	132	0.1000	0.17	114.57	Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.069 Riprap, 6-inch
0.1	231	0.1300	29.21	408.97	Trap/Vee/Rect Channel Flow,
• • • • • • • • • • • • • • • • • • • •					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.022
4.5	280	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.6	134	0.3000	1.37		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.6	334	0.1600	1.00		Shallow Concentrated Flow,
0.0	400	0.0000	40.04	005.07	Forest w/Heavy Litter Kv= 2.5 fps
0.2	168	0.0800	16.81	235.27	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
1.1	398	0.0100	5.94	83.18	n= 0.030 Stream, clean & straight Trap/Vee/Rect Channel Flow,
1.1	390	0.0100	5.94	03.10	Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.030 Stream, clean & straight
0.5	334	0.0400	11.88	166.36	Trap/Vee/Rect Channel Flow,
0.0	551	2.2.00		. 50.00	Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.030 Stream, clean & straight
0.2	176	0.1900	15.54	217.55	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'

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n= 0.050 Mountain streams w/large boulders

53.2 4,707 Total

Summary for Subcatchment 17S: WS 1D1

Runoff = 22.18 cfs @ 11.93 hrs, Volume= 0.946 af, Depth= 1.49"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.085	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.048	71	Existing meadow, non-grazed, HSG C
0.115	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.722	70	Existing Woods, Good, HSG C
0.593	77	Existing Woods, Good, HSG D
0.001	70	Proposed Woods, Good, HSG C
0.067	77	Proposed Woods, Good, HSG D
1.711	98	Proposed impervious to be treated, HSG C
0.017	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
3.438	71	Proposed developed meadow to be treated, HSG C
0.822	78	Proposed developed meadow to be treated, HSG D
0.003	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
7.622	79	Weighted Average
5.809		76.21% Pervious Area
1.813		23.79% Impervious Area

Type II 24-hr 10-Year Rainfall=3.40" Printed 9/24/2021

55310.01-West Mountain-PR

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1100	2.36	, ,	Sheet Flow,
					Smooth surfaces n= 0.011 P2= 2.40"
0.0	19	0.1100	6.73		Shallow Concentrated Flow,
					Paved Kv= 20.3 fps
0.3	69	0.0600	3.67		Shallow Concentrated Flow,
					Grassed Waterway Kv= 15.0 fps
0.5	427	0.1200	13.38	23.65	•
					18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38'
					n= 0.020 Corrugated PE, corrugated interior
0.2	316	0.1900	31.50	125.99	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
					n= 0.016 Asphalt, rough
0.1	118	0.2400	22.93	72.04	Pipe Channel,
					24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'
					n= 0.020 Corrugated PE, corrugated interior
0.6	372	0.1500	10.92	43.69	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
					n= 0.041 Riprap, 2-inch
2.4	1,421	Total			

Summary for Subcatchment 18S: WS 1D2

Runoff = 6.56 cfs @ 12.06 hrs, Volume= 0.421 af, Depth= 1.06"

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Area	(ac) (ON E	Des	cription						
0.	000	98 l	Jntr	eated exis	ting imperv	ious, HSG A				
0.	000	98 l	Untreated existing impervious, HSG C							
0.	000	98 l	Jntr	eated exis	ting imperv	ious, HSG D				
0.	000	98 E	Exis	ting imperv	ious to be	treated as offset, HSG D				
0.	000	30 E	Exis	ting meado	ow, non-gra	azed, HSG A				
0.			Exis	ting meado	ow, non-gra	azed, HSG C				
0.			Exis	ting meado	ow, non-gra	azed, HSG D				
0.	000	30 E	Exis	ting Wood:	s, Good, H	SG A				
0.	962	70 E	Exis	ting Wood:	s, Good, H	SG C				
			Exis	ting Wood:	s, Good, H	SG D				
					ds, Good, l					
					ds, Good, l					
						e treated, HSG C				
						e treated, HSG D				
						rvious, HSG C				
						rvious, HSG D				
						dow, non-grazed, HSG C				
						dow, non-grazed, HSG D				
						dow to be treated, HSG C				
						dow to be treated, HSG D				
					dow, ski tra	,				
					dow, ski tra					
					dow, ski lift					
					<u>dow, ski lift</u>	t, HSG D				
			•	ghted Aver	•					
4.	785	1	100.	00% Pervi	ous Area					
Tc	Length			Velocity	Capacity	Description				
<u>(min)</u>	(feet)		/ft)	(ft/sec)	(cfs)					
7.2	100	0.16	00	0.23		Sheet Flow,				
						Grass: Dense n= 0.240 P2= 2.40"				
6.2	1,123	0.18	390	3.04		Shallow Concentrated Flow,				
						Short Grass Pasture Kv= 7.0 fps				
13.4	1,223	Tota	al							

Summary for Subcatchment 19S: WS 1D3

Runoff = 5.31 cfs @ 11.99 hrs, Volume= 0.265 af, Depth= 1.17"

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Area	(ac) C	N Des	cription								
			Untreated existing impervious, HSG A								
			Jntreated existing impervious, HSG C								
0.	.000		Intreated existing impervious, HSG D								
0.	.000				treated as offset, HSG D						
0.	000	30 Exis	ting meado	ow, non-gra	azed, HSG A						
0.	349	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0.	.000	30 Exis	ting Wood	s, Good, H	SG A						
				s, Good, H							
			•	s, Good, H							
				ds, Good,							
				ds, Good,							
			•		e treated, HSG C						
					e treated, HSG D						
				•	rvious, HSG C						
					rvious, HSG D						
					dow, non-grazed, HSG C						
				•	idow, non-grazed, HSG D						
					dow to be treated, HSG C						
				•	idow to be treated, HSG D						
				dow, ski tra dow, ski tra							
				dow, ski lift							
				dow, ski lift							
			ghted Aver		i, 1100 D						
	340	•	2% Pervio								
	377			/ious Area							
0.	011	10.0	070 IIIIpci (71003 71100							
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	2						
0.9	93	0.0500	1.69	, ,	Sheet Flow,						
0.0		0.0000	1.00		Smooth surfaces n= 0.011 P2= 2.40"						
4.5	259	0.1500	0.97		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
0.7	220	0.1100	5.20	15.60	Trap/Vee/Rect Channel Flow, roadway ditch						
					Bot.W=2.00' D=1.00' Z= 1.0 '/ Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
8.0	70	0.3100	1.39		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
0.3	89	0.1100	5.20	15.60	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
7.2	731	Total									

Summary for Subcatchment 20S: WS 1D4

Runoff = 1.91 cfs @ 12.05 hrs, Volume= 0.115 af, Depth= 1.23"

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Area	(ac)	CN	Desc	cription								
0.	000	98	Untre	Untreated existing impervious, HSG A								
0.	063	98	Untre	Intreated existing impervious, HSG C								
0.	037	98	Untre	Intreated existing impervious, HSG D								
0.	000	98				treated as offset, HSG D						
0.	000	30	Exist	ing meado	ow, non-gra	azed, HSG A						
0.	295	71	Exist	ing meado	ow, non-gra	azed, HSG C						
0.	074	78	Exist	ing meado	ow, non-gra	azed, HSG D						
0.	.000	30	Exist	ing Wood	s, Good, H	SG A						
0.	307	70	Exist	ing Wood	s, Good, H	SG C						
0.	158	77	Exist	ing Wood	s, Good, H	SG D						
0.	.000	70	Prop	osed Woo	ds, Good,	HSG C						
	000	77			ds, Good,							
	000	98				e treated, HSG C						
	000	98				e treated, HSG D						
	000	98				rvious, HSG C						
	000	98				rvious, HSG D						
	144	71				idow, non-grazed, HSG C						
	041	78				idow, non-grazed, HSG D						
	000	71				dow to be treated, HSG C						
	000	78				dow to be treated, HSG D						
	000	71			dow, ski tra							
	000	78			dow, ski tra							
	000	71			dow, ski lift							
	000	78			dow, ski lift	t, HSG D						
	119	75		hted Aver								
	019			6% Pervio								
0.	100		8.94	% Impervi	ous Area							
_					0 "							
Tc	Lengtl		lope	Velocity	Capacity	Description						
<u>(min)</u>	(feet		(ft/ft)	(ft/sec)	(cfs)							
10.8	59	9 0.2	2200	0.09		Sheet Flow,						
0.0	4	7 00	2000	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"						
8.0	15	7 0.2	2200	3.28		Shallow Concentrated Flow,						
0.6	17	0 0 4	1000	4.06	14.00	Short Grass Pasture Kv= 7.0 fps						
0.6	179	9 0.1	1000	4.96	14.88	Trap/Vee/Rect Channel Flow, ditch						
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
40.0	0.0		4.1			n= 0.069 Riprap, 6-inch						
12.2	39	5 To	เลเ									

Summary for Subcatchment 21S: Untreated from Timbers

Runoff = 13.63 cfs @ 11.95 hrs, Volume= 0.614 af, Depth= 1.63"

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Area	(ac)	CN	Desc	cription							
0.	.000	98	Untre	Untreated existing impervious, HSG A							
0.	000	98		Jntreated existing impervious, HSG C							
0.	000	98		Intreated existing impervious, HSG D							
0.	000	98				treated as offset, HSG D					
	000	30				azed, HSG A					
0.	000	71				azed, HSG C					
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D					
0.	000	30	Exist	ing Woods	s, Good, H	SG A					
0.	000	70	Exist	ing Woods	s, Good, H	SG C					
0.	000	77			s, Good, H						
0.	000	70			ds, Good, I						
0.	.000	77	Prop	osed Woo	ds, Good, I	HSG D					
0.	.000	98	Prop	osed impe	rvious to b	e treated, HSG C					
0.	.000	98	Prop	osed impe	rvious to b	e treated, HSG D					
0.	234	98	Untre	eated prop	osed impe	rvious, HSG C					
0.	894	98	Untre	eated prop	osed impe	rvious, HSG D					
	026	71	Prop	osed deve	loped mea	dow, non-grazed, HSG C					
	185	78	Prop	osed deve	loped mea	dow, non-grazed, HSG D					
	000	71	Prop	osed deve	loped mea	dow to be treated, HSG C					
	000	78	Prop	osed deve	loped mea	dow to be treated, HSG D					
0.	186	71	Prop	osed mea	dow, ski tra	ail, HSG C					
	000	78	Prop	osed mea	dow, ski tra	ail, HSG D					
	000	71			dow, ski lift						
0.	.000	78	Prop	osed mea	dow, ski lift	;, HSG D					
4.	525	81	Weig	hted Aver	age						
3.	397		75.0	7% Pervio	us Area						
1.	128		24.9	3% Imperv	ious Area						
Tc	Lengt	h :	Slope	Velocity	Capacity	Description					
(min)	(fee	t)	(ft/ft)	(ft/sec)	(cfs)						
0.7	9	2 0	.1000	2.23		Sheet Flow,					
						Smooth surfaces n= 0.011 P2= 2.40"					
0.3	10	5 0	.1700	6.18		Shallow Concentrated Flow,					
						Grassed Waterway Kv= 15.0 fps					
3.4	1,12	0 0	.1100	5.56	22.23	Trap/Vee/Rect Channel Flow, ditch					
						Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'					
						n= 0.069 Riprap, 6-inch					
4.4	1,31	7 T	otal								

Summary for Subcatchment 22S: WS 1D6

Runoff = 6.18 cfs @ 11.96 hrs, Volume= 0.294 af, Depth= 1.93"

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Area	(ac)	CN	Desc	ription					
0.	000	98	Untre	eated exis	ting imperv	ious, HSG A			
0.	000	98	Untre	Untreated existing impervious, HSG C					
0.	000	98	Untre	Untreated existing impervious, HSG D					
0.	000	98	Exist	ing imper	vious to be	treated as offset, HSG D			
0.	000	30	Exist	ing meado	ow, non-gra	azed, HSG A			
0.	000	71	Exist	ing meado	ow, non-gra	azed, HSG C			
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D			
0.	000	30	Exist	ing Woods	s, Good, H	SG A			
0.	000	70	Exist	ing Woods	s, Good, H	SG C			
0.	000	77	Exist	ing Woods	s, Good, H	SG D			
0.	000	70	Prop	osed Woo	ds, Good, I	HSG C			
0.	000	77	Prop	osed Woo	ds, Good,	HSG D			
0.	103	98	Prop	osed impe	ervious to b	e treated, HSG C			
0.	537	98	Prop	osed impe	ervious to b	e treated, HSG D			
0.	000	98	Untre	eated prop	osed impe	rvious, HSG C			
0.	000	98	Untre	eated prop	osed impe	rvious, HSG D			
0.	000	71	Prop	osed deve	eloped mea	dow, non-grazed, HSG C			
	000	78				dow, non-grazed, HSG D			
	127	71				dow to be treated, HSG C			
	062	78				dow to be treated, HSG D			
	000	71			dow, ski tra				
	000	78			dow, ski tra				
	000	71			dow, ski lift				
0.	000	78	Prop	<u>osed mea</u>	dow, ski lift	; HSG D			
1.	829	85	Weig	hted Aver	age				
1.	189		65.0	1% Pervio	us Area				
0.	640		34.9	9% Imperv	/ious Area				
Tc	Length		Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
4.2	66	3 0.2	2700	0.26		Sheet Flow,			
						Grass: Dense n= 0.240 P2= 2.40"			
0.7	89	9.0	0200	2.12		Shallow Concentrated Flow,			
						Grassed Waterway Kv= 15.0 fps			
0.5	310	0.0	0600	11.11	8.73	Pipe Channel,			
						12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25'			
						n= 0.013 Corrugated PE, smooth interior			
5.4	46	5 To	otal						

Summary for Subcatchment 23S: WS 1D7

Runoff = 8.87 cfs @ 12.42 hrs, Volume= 1.151 af, Depth= 1.17"

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Area (a	c) C	N_	Description
0.00	00 9	98	Untreated existing impervious, HSG A
0.00	00 9	98	Untreated existing impervious, HSG C
0.00	00 9	98	Untreated existing impervious, HSG D
0.00	00 9	98	Existing impervious to be treated as offset, HSG D
0.00	00 3	30	Existing meadow, non-grazed, HSG A
2.08	34 7	71	Existing meadow, non-grazed, HSG C
3.60		78	Existing meadow, non-grazed, HSG D
0.00		30	Existing Woods, Good, HSG A
3.19	98 7	70	Existing Woods, Good, HSG C
1.64		77	Existing Woods, Good, HSG D
0.16	39 7	70	Proposed Woods, Good, HSG C
0.25		77	Proposed Woods, Good, HSG D
0.00		98	Proposed impervious to be treated, HSG C
0.00		98	Proposed impervious to be treated, HSG D
0.00		98	Untreated proposed impervious, HSG C
0.03		98	Untreated proposed impervious, HSG D
0.09		71	Proposed developed meadow, non-grazed, HSG C
0.16		78	Proposed developed meadow, non-grazed, HSG D
0.00		71	Proposed developed meadow to be treated, HSG C
0.00		78	Proposed developed meadow to be treated, HSG D
0.24		71	Proposed meadow, ski trail, HSG C
0.28		78	Proposed meadow, ski trail, HSG D
0.00		71	Proposed meadow, ski lift, HSG C
0.00	00 7	<u>78 </u>	Proposed meadow, ski lift, HSG D
11.78	37 7	74	Weighted Average
11.74			99.63% Pervious Area
0.04	14		0.37% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
_	7.2	100	0.1600	0.23	· /	Sheet Flow,
						Grass: Dense n= 0.240 P2= 2.40"
	0.5	89	0.1600	2.80		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	5.4	228	0.0800	0.71		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.0	185	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.4	217	0.1800	1.06		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.0	273	0.2100	1.15		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.3	293	0.2100	1.15		Shallow Concentrated Flow,
		004	0.0400	4 4 =		Forest w/Heavy Litter Kv= 2.5 fps
	3.8	264	0.2100	1.15		Shallow Concentrated Flow,
	0.0	054	0.0500	4.05		Forest w/Heavy Litter Kv= 2.5 fps
	3.3	251	0.2500	1.25		Shallow Concentrated Flow,
	4 5	200	0.0000	4 40		Forest w/Heavy Litter Kv= 2.5 fps
	4.5	300	0.2000	1.12		Shallow Concentrated Flow,
	2.6	194	0.2500	1.25		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
	2.0	194	0.2300	1.23		Forest w/Heavy Litter Kv= 2.5 fps
	0.2	138	0.2200	10.15	30.45	Trap/Vee/Rect Channel Flow,
	0.2	130	0.2200	10.13	30.43	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.050
_	42.2	2,532	Total			11 0.000
	74.4	2,002	i Otai			

Summary for Subcatchment 24S: WS 2

Runoff = 1.84 cfs @ 12.16 hrs, Volume= 0.151 af, Depth= 1.42"

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Area	(ac) (CN Des	cription						
				ting imperv	rious, HSG A				
			Untreated existing impervious, HSG C						
	0.070 98 Untreated existing impervious, HSG D 0.000 98 Existing impervious to be treated as offset, HSG D								
					azed, HSG A				
					azed, HSG C				
0.	.000				azed, HSG D				
				s, Good, H					
0.	.000			s, Good, H					
1.	.145			s, Good, H					
0.	.000	70 Prop	osed Woo	ds, Good,	HSG C				
0.	.000	77 Prop	osed Woo	ds, Good,	HSG D				
0.	.000	98 Prop	osed impe	ervious to b	e treated, HSG C				
0.	.000				pe treated, HSG D				
0.	.000	98 Untr	eated prop	osed impe	rvious, HSG C				
					rvious, HSG D				
			Proposed developed meadow, non-grazed, HSG C						
			Proposed developed meadow, non-grazed, HSG D						
					adow to be treated, HSG C				
			Proposed developed meadow to be treated, HSG D						
				dow, ski tra					
				dow, ski tra					
				dow, ski lif					
				dow, ski lif	t, HSG D				
			ghted Aver						
	.205		1% Pervio						
0.	.070	5.49)% Impervi	ous Area					
_									
Tc	Length		Velocity	Capacity	Description				
(min)	(feet)		(ft/sec)	(cfs)					
10.7	35	0.0800	0.05		Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
5.7	242	0.0800	0.71		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
4.1	176	0.0800	0.71		Shallow Concentrated Flow,				
0.0	466	0.0500	4.45	0.00	Forest w/Heavy Litter Kv= 2.5 fps				
2.0	129	0.0500	1.10	3.30	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.220				
22.5	582	Total							

Summary for Subcatchment 25S: WS 2A

Runoff = 8.23 cfs @ 11.93 hrs, Volume= 0.363 af, Depth= 2.09"

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Area ((ac) (CN D	escription		
0.0	000	98 U	ntreated exis	ting imperv	rious, HSG A
0.0	000	98 U	ntreated exis	ting imperv	rious, HSG C
0.0	010	98 U	ntreated exis	ting imperv	rious, HSG D
0.0	000	98 E	kisting imper	vious to be	treated as offset, HSG D
	000				azed, HSG A
	000				azed, HSG C
	000				azed, HSG D
	000		kisting Wood		
	000		kisting Wood		
	002		kisting Wood		
	000		oposed Woo		
	000		oposed Woo	, ,	
	000				e treated, HSG C
	910				e treated, HSG D
	000				rvious, HSG C
	000				rvious, HSG D
	000				dow, non-grazed, HSG C
	000				dow, non-grazed, HSG D
	000		•		adow to be treated, HSG C
	162				adow to be treated, HSG D
	000		oposed mea		
	000		oposed mea		
	000		oposed mea	•	
	000		oposed mea		t, HSG D
	084		eighted Ave		
	164		5.85% Pervio		
0.9	920	44	I.15% Imper	vious Area	
Тс	Length	Slop	e Velocity	Capacity	Description
(min)	(feet)			(cfs)	'
1.2	100	0.030	0 1.40		Sheet Flow,
					Smooth surfaces n= 0.011 P2= 2.40"
1.6	457	0.090	0 4.70	14.11	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.069 Riprap, 6-inch
2.8	557	Total			

Summary for Subcatchment 27S: WS 3A

Runoff = 2.54 cfs @ 12.25 hrs, Volume= 0.246 af, Depth= 1.49"

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Area	(ac) C	N Des	cription						
		98 Untr	eated exis	ting imperv	rious, HSG A				
0.000 98 Untreated existing impervious, HSG C									
0.021 98 Untreated existing impervious, HSG D									
0.000 98 Existing impervious to be treated as offset, HSG D 0.000 30 Existing meadow, non-grazed, HSG A									
					azed, HSG C azed, HSG D				
			Existing Woods, Good, HSG A Existing Woods, Good, HSG C						
			0	s, Good, H					
0.	000			ds, Good,					
				ds, Good,					
			•		e treated, HSG C				
			•		e treated, HSG D				
					rvious, HSG C				
					rvious, HSG D idow, non-grazed, HSG C				
					idow, non-grazed, HSG D				
					idow to be treated, HSG C				
					idow to be treated, HSG D				
0.	000		Proposed meadow, ski trail, HSG C						
			Proposed meadow, ski trail, HSG D						
			Proposed meadow, ski lift, HSG C Proposed meadow, ski lift, HSG D						
					t, HSG D				
			ghted Aver						
	.876 .109		1% Pervio % Impervi						
0.	109	5.43	70 IIIIþeivi	ous Alea					
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	·				
10.8	53	0.1800	0.08		Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
2.1	136	0.1800	1.06		Shallow Concentrated Flow,				
0.0	044	0.0000	0.04		Forest w/Heavy Litter Kv= 2.5 fps				
6.6	241	0.0600	0.61		Shallow Concentrated Flow,				
0.2	18	0.4400	1.66		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,				
0.2	10	0.4400	1.00		Forest w/Heavy Litter Kv= 2.5 fps				
3.7	159	0.0800	0.71		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
2.7	160	0.1600	1.00		Shallow Concentrated Flow,				
_					Forest w/Heavy Litter Kv= 2.5 fps				
3.4	161	0.1000	0.79		Shallow Concentrated Flow,				
		T			Forest w/Heavy Litter Kv= 2.5 fps				
29.5	928	Total							

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Summary for Subcatchment 28S: WS 4

Runoff = 8.00 cfs @ 12.06 hrs, Volume= 0.493 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 10-Year Rainfall=3.40"

,	Area (ac) (CN Des	cription						
					ting imperv	ious, HSG A				
						ious, HSG C				
					ious, HSG D					
						treated as offset, HSG D				
						azed, HSG A				
						azed, HSG C				
				Existing meadow, non-grazed, HSG D						
				Existing Woods, Good, HSG A						
					s, Good, H					
					s, Good, H					
					ds, Good,					
	0.2	257	77 Prop	osed Woo	ds, Good,	HSG D				
	0.0	000	98 Prop	osed impe	ervious to b	e treated, HSG C				
	0.0	000	98 Prop	osed impe	ervious to b	e treated, HSG D				
	0.0	000				rvious, HSG C				
	0.0	000	98 Untr	eated prop	osed impe	rvious, HSG D				
				Proposed developed meadow, non-grazed, HSG C						
						dow, non-grazed, HSG D				
						dow to be treated, HSG C				
						dow to be treated, HSG D				
				Proposed meadow, ski trail, HSG C						
					dow, ski tra					
					dow, ski lift					
	0.0	000	78 Prop	osed mea	dow, ski lift	t, HSG D				
				ghted Aver						
		354		9% Pervio						
	0.0	009	0.21	% Impervi	ous Area					
	Tc	Length		Velocity	Capacity	Description				
1)	min)	(feet)		(ft/sec)	(cfs)					
	9.0	100	0.0900	0.18		Sheet Flow,				
						Grass: Dense n= 0.240 P2= 2.40"				
	2.1	269	0.0900	2.10		Shallow Concentrated Flow,				
						Short Grass Pasture Kv= 7.0 fps				
	1.8	100	0.1400	0.94		Shallow Concentrated Flow,				
						Forest w/Heavy Litter Kv= 2.5 fps				
	0.3	436	0.1100	24.47	2,741.07	Trap/Vee/Rect Channel Flow,				
						Bot.W=6.00' D=8.00' Z= 1.0 '/' Top.W=22.00'				
						n= 0.050 Mountain streams w/large boulders				
	12 2	005	Total							

13.2 905 Total

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Summary for Subcatchment 29S: WS 4A

Runoff = 37.41 cfs @ 12.05 hrs, Volume= 2.228 af, Depth= 1.29"

۸roa	(20)	CN D	escription					
Area	000			ating impor	views LICC A			
	000		Untreated existing impervious, HSG A					
			Untreated existing impervious, HSG C Untreated existing impervious, HSG D					
	000 000							
					treated as offset, HSG D			
	000		Existing meadow, non-grazed, HSG A Existing meadow, non-grazed, HSG C					
	000							
	000				azed, HSG D			
	000		xisting Wood					
	622		xisting Wood					
	916		xisting Wood					
	000		roposed Wo					
	944		roposed Wo	, ,				
	000				pe treated, HSG C			
	000				pe treated, HSG D			
	000		Untreated proposed impervious, HSG C					
	000		Untreated proposed impervious, HSG D					
	000		Proposed developed meadow, non-grazed, HSG C					
	218		Proposed developed meadow, non-grazed, HSG D Proposed developed meadow to be treated, HSG C					
	000							
	000				adow to be treated, HSG D			
	000		roposed mea					
	977		roposed mea					
	000		roposed mea					
	000		roposed mea		เ, ทอษ บ			
	677		/eighted Ave	•				
20.	677	1	00.00% Perv	ious Area				
_		0.1						
Tc	Lengtl				Description			
(min)	(feet			(cfs)				
6.7	100	0.190	0.25		Sheet Flow,			
					Grass: Dense n= 0.240 P2= 2.40"			
1.0	180	0.190	3.05		Shallow Concentrated Flow,			
					Short Grass Pasture Kv= 7.0 fps			
4.4	2,562	2 0.15	50 9.80	58.80	Trap/Vee/Rect Channel Flow,			
					Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00'			
					n= 0.050 Mountain streams w/large boulders			
12.1	2,842	2 Total						

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Summary for Subcatchment 30S: WS 4B

Runoff = 12.34 cfs @ 12.18 hrs, Volume= 1.055 af, Depth= 1.42"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.657	70	Existing Woods, Good, HSG C
4.078	77	Existing Woods, Good, HSG D
0.184	70	Proposed Woods, Good, HSG C
1.364	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.216	98	Untreated proposed impervious, HSG C
0.393	98	Untreated proposed impervious, HSG D
0.593	71	Proposed developed meadow, non-grazed, HSG C
1.416	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.006	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
8.907	78	Weighted Average
8.298		93.16% Pervious Area
0.609		6.84% Impervious Area

Type II 24-hr 10-Year Rainfall=3.40" Printed 9/24/2021

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 Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	54	0.1900	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
0.6	105	0.1900	3.05		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
1.0	80	0.2800	1.32		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.4	255	0.1400	11.64	69.85	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.040 Mountain streams
0.4	218	0.1100	10.32	61.91	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.040 Mountain streams
4.4	217	0.1100	0.83		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.5	189	0.0800	0.71		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.0	142	0.2300	1.20		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
24.0	1,260	Total			

Summary for Subcatchment 31S: WS 4C

Runoff = 27.88 cfs @ 12.24 hrs, Volume= 2.715 af, Depth= 1.23"

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Area	(ac)	CN D	esc	ription					
	.000	98 L	ntre	ated exist	ting imperv	rious, HSG A			
0.	.000	98 L	Intre	ated exist	ting imperv	rious, HSG C			
0.	.000	98 L	Intre	ated exist	ting imperv	rious, HSG D			
						treated as offset, HSG D			
0.	.000	30 E	xisti	ing meado	ow, non-gra	azed, HSG A			
0.	.802	71 E	Existing meadow, non-grazed, HSG C						
2.	.723	78 E	Existing meadow, non-grazed, HSG D						
0.	.000	30 E	Existing Woods, Good, HSG A						
3.	.606	70 E	xisti	ing Woods	s, Good, H	SG C			
5.	.804	77 E	xisti	ing Woods	s, Good, H	SG D			
1.	.389	70 F	ropo	osed Woo	ds, Good,	HSG C			
2.	.634	77 P	ropo	osed Woo	ds, Good,	HSG D			
0.	.000	98 F	ropo	osed impe	ervious to b	e treated, HSG C			
0.	.000	98 F	ropo	osed impe	ervious to b	e treated, HSG D			
0.	.213	98 L	Intre	ated prop	osed impe	rvious, HSG C			
0.	.215	98 L	Intre	ated prop	osed impe	rvious, HSG D			
0.	.336	71 P	ropo	osed deve	eloped mea	ndow, non-grazed, HSG C			
0.	.248	78 F	ropo	osed deve	eloped mea	ndow, non-grazed, HSG D			
0.	.000	71 P	ropo	osed deve	loped mea	ndow to be treated, HSG C			
0.	.000	78 F	ropo	osed deve	eloped mea	ndow to be treated, HSG D			
3.	.924	71 P	ropo	osed mea	dow, ski tra	ail, HSG C			
	.557		ropo	osed mea	dow, ski tra	ail, HSG D			
0.	.000	71 P	ropo	osed mea	dow, ski lif	t, HSG C			
0	.000	78 F	ropo	osed mea	dow, ski lif	t, HSG D			
26.	.451	75 V	Veig	hted Aver	age				
	.023	9	8.38	3% Pervio	ue Araa				
^					us Alca				
U.	.428	1		% Impervi					
			.62%	% Impervi	ous Area				
Тс	Length	n Slo	.62% pe	% Impervious Velocity	ous Area Capacity	Description			
Tc (min)	Length	n Slo) (ft/	.62% pe ft)	% Impervious Velocity (ft/sec)	ous Area	·			
Тс	Length	n Slo) (ft/	.62% pe ft)	% Impervious Velocity	ous Area Capacity	Sheet Flow,			
Tc (min) 8.7	Length (feet	Slo (ft/ 0.10	.62% pe (ft) 00	Velocity (ft/sec) 0.19	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40"			
Tc (min)	Length	Slo (ft/ 0.10	.62% pe (ft) 00	% Impervious Velocity (ft/sec)	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow,			
Tc (min) 8.7 0.3	Length (feet) 100	Slo) (ft/) 0.10	.62% pe ft) 00	Velocity (ft/sec) 0.19 2.21	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps			
Tc (min) 8.7	Length (feet	Slo) (ft/) 0.10	.62% pe ft) 00	Velocity (ft/sec) 0.19	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,			
Tc (min) 8.7 0.3 3.0	Length (feet) 100 37 270	Slo (ft/ 0.10 0.10 0.37	.62% pe ft) 00 00	Velocity (ft/sec) 0.19 2.21 1.52	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps			
Tc (min) 8.7 0.3	Length (feet) 100	Slo (ft/ 0.10 0.10 0.37	.62% pe ft) 00 00	Velocity (ft/sec) 0.19 2.21	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,			
Tc (min) 8.7 0.3 3.0 1.8	Length (feet) 100 37 270 431	Slo (ft/ 0 0.10 7 0.10 0 0.37 0.32	.62% pe ft) 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps			
Tc (min) 8.7 0.3 3.0	Length (feet) 100 37 270	Slo (ft/ 0 0.10 7 0.10 0 0.37 0.32	.62% pe ft) 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,			
Tc (min) 8.7 0.3 3.0 1.8 1.7	Length (feet) 100 37 270 431 157	Slo (ft/ 0 0.10 0 0.37 0 0.32 0 0.38	.62% pe ft) 00 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps			
Tc (min) 8.7 0.3 3.0 1.8	Length (feet) 100 37 270 431 157	Slo (ft/ 0 0.10 7 0.10 0 0.37 0.32	.62% pe ft) 00 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,			
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6	Length (feet) 100 37 270 431 157	Slo (ft/ 0.10 0.10 0.37 0.32 0.38 2.0.21	.62% pe ft) 000 000 000 000	% Impervious Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps			
Tc (min) 8.7 0.3 3.0 1.8 1.7	Length (feet) 100 37 270 431 157	Slo (ft/ 0.10 0.10 0.37 0.32 0.38 2.0.21	.62% pe ft) 000 000 000 000	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,			
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5	Length (feet) 100 37 270 431 157 702 262	Slo (ft/ 0 0.10 0 0.37 0.32 7 0.38 2 0.21 2 0.25	.62% pe fft) 000 000 000 000	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25	ous Area Capacity (cfs)	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps			
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6	Length (feet) 100 37 270 431 157	Slo (ft/ 0 0.10 7 0.10 9 0.37 0.32 7 0.38 2 0.21 2 0.25	.62% pe fft) 000 000 000 000	% Impervious Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21	ous Area Capacity	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch			
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5	Length (feet) 100 37 270 431 157 702 262	Slo (ft/ 0 0.10 0 0.37 0.32 7 0.38 2 0.21 2 0.25	.62% pe fft) 000 000 000 000	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25	ous Area Capacity (cfs)	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5 1.7	Length (feet) 100 37 270 431 157 702 262 740	1 Slo (ft/ 0 0.10 7 0.10 9 0.37 9 0.32 7 0.38 2 0.21 9 0.25 9 0.22	.62% pe ff) 00 00 00 00 00 00 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25 7.36	ous Area Capacity (cfs)	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch			
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5	Length (feet) 100 37 270 431 157 702 262	1 Slo (ft/ 0 0.10 7 0.10 9 0.37 9 0.32 7 0.38 2 0.21 2 0.25 9 0.22	.62% pe ff) 00 00 00 00 00 00 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25	ous Area Capacity (cfs)	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch Shallow Concentrated Flow,			
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5 1.7	Length (feet) 100 37 270 431 157 702 262 740	Slo (ft/ 0 0.10 0 0.37 0.32 7 0.38 2 0.21 2 0.25 0 0.22	.62% pe (ft) 00 00 00 00 00 00 00 00 00 00 00 00	% Impervious Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25 7.36 1.17	cus Area Capacity (cfs) 22.07	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps			
Tc (min) 8.7 0.3 3.0 1.8 1.7 3.6 3.5 1.7	Length (feet) 100 37 270 431 157 702 262 740	Slo (ft/ 0 0.10 0 0.37 0.32 7 0.38 2 0.21 2 0.25 0 0.22	.62% pe (ft) 00 00 00 00 00 00 00 00 00 00 00 00	Velocity (ft/sec) 0.19 2.21 1.52 3.96 1.54 3.21 1.25 7.36	ous Area Capacity (cfs)	Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps Trap/Vee/Rect Channel Flow, ditch Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps			

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n= 0.050 Mountain streams w/large boulders

28.4 3,294 Total

Summary for Subcatchment 32S: WS 5

Runoff = 2.89 cfs @ 12.22 hrs, Volume= 0.266 af, Depth= 1.36"

_	Area (ac)	CN	Description
	0.000	98	Untreated existing impervious, HSG A
	0.000	98	Untreated existing impervious, HSG C
	0.012	98	Untreated existing impervious, HSG D
	0.000	98	Existing impervious to be treated as offset, HSG D
	0.000	30	Existing meadow, non-grazed, HSG A
	0.000	71	Existing meadow, non-grazed, HSG C
	0.000	78	Existing meadow, non-grazed, HSG D
	0.000	30	Existing Woods, Good, HSG A
	0.000	70	Existing Woods, Good, HSG C
	1.790	77	Existing Woods, Good, HSG D
	0.000	70	Proposed Woods, Good, HSG C
	0.133	77	Proposed Woods, Good, HSG D
	0.000	98	Proposed impervious to be treated, HSG C
	0.000	98	Proposed impervious to be treated, HSG D
	0.000	98	Untreated proposed impervious, HSG C
	0.000	98	Untreated proposed impervious, HSG D
	0.000	71	Proposed developed meadow, non-grazed, HSG C
	0.000	78	Proposed developed meadow, non-grazed, HSG D
	0.000	71	Proposed developed meadow to be treated, HSG C
	0.000	78	Proposed developed meadow to be treated, HSG D
	0.000	71	Proposed meadow, ski trail, HSG C
	0.420	78	Proposed meadow, ski trail, HSG D
	0.000	71	Proposed meadow, ski lift, HSG C
_	0.000	78	Proposed meadow, ski lift, HSG D
	2.355	77	Weighted Average
	2.343		99.49% Pervious Area
	0.012		0.51% Impervious Area

Type II 24-hr 10-Year Rainfall=3.40" Printed 9/24/2021

55310.01-West Mountain-PR

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	Тс	Length	Slope	Velocity	Capacity	Description
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	<u>'</u>
	10.9	38	0.0900	0.06		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	2.0	89	0.0900	0.75		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.3	240	0.1400	0.94		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	8.1	345	0.0800	0.71		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	1.4	87	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.1	88	0.1400	13.49	40.48	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_						n= 0.030 Stream, clean & straight
	26.8	887	Total			

Summary for Subcatchment 33S: WS 6

Runoff = 10.70 cfs @ 12.08 hrs, Volume= 0.707 af, Depth= 1.36"

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Area	(ac) C	N Des	cription										
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A								
					rious, HSG C								
			Jntreated existing impervious, HSG D										
			Existing impervious to be treated as offset, HSG D										
			Existing impervious to be treated as offset, HSG D Existing meadow, non-grazed, HSG A										
					azed, HSG C								
					azed, HSG D								
				s, Good, H									
			•										
				s, Good, H									
			0	s, Good, H									
				ods, Good,									
				ds, Good,									
					pe treated, HSG C								
					pe treated, HSG D								
					rvious, HSG C								
					rvious, HSG D								
					adow, non-grazed, HSG C								
				•	adow, non-grazed, HSG D								
					adow to be treated, HSG C								
				•	adow to be treated, HSG D								
0.	000	71 Prop	osed mea	dow, ski tra	ail, HSG C								
1.	493	78 Prop	osed mea	dow, ski tra	ail, HSG D								
0.	000	71 Prop	osed mea	dow, ski lif	t, HSG C								
0.	000	78 Prop	osed mea	dow, ski lif	t, HSG D								
6.	257	77 Weid	ghted Aver	age									
	216		4% Pervio										
	041		% Impervi										
	• • •												
Tc	Length	Slope	Velocity	Capacity	Description								
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	2-3-3-1-риз-1								
8.3	100	0.1100	0.20	()	Sheet Flow,								
0.0	100	0.1100	0.20		Grass: Dense n= 0.240 P2= 2.40"								
0.7	93	0.1100	2.32		Shallow Concentrated Flow,								
0.7	30	0.1100	2.02		Short Grass Pasture Kv= 7.0 fps								
1.3	201	0.1400	2.62		Shallow Concentrated Flow,								
1.5	201	0.1400	2.02		Short Grass Pasture Kv= 7.0 fps								
0.5	261	0.4500	8.96	25.02									
0.5	201	0.1500	0.90	35.82	Trap/Vee/Rect Channel Flow,								
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'								
0.5	400	0.0700	0.40	04.47	n= 0.050								
0.5	182	0.0700	6.12	24.47	Trap/Vee/Rect Channel Flow,								
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'								
		0 0 = = =	=		n= 0.050								
0.8	241	0.0500	5.17	20.68	Trap/Vee/Rect Channel Flow,								
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'								
					n= 0.050 Mountain streams w/large boulders								
2.8	119	0.0800	0.71		Shallow Concentrated Flow,								
					Forest w/Heavy Litter Kv= 2.5 fps								
0.2	71	0.0600	5.30	15.90	Trap/Vee/Rect Channel Flow,								
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'								
					n= 0.050								
15.1	1,268	Total											
	.,_00												

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Summary for Subcatchment 34S: WS 6A

Runoff = 18.32 cfs @ 12.12 hrs, Volume= 1.366 af, Depth= 1.29"

Area	(ac) C	N Desc	cription							
0.	000	98 Untr	eated exis	ting imperv	ious, HSG A					
0.			Untreated existing impervious, HSG C							
			Untreated existing impervious, HSG D							
					treated as offset, HSG D					
					azed, HSG A					
			0	,	azed, HSG C					
					azed, HSG D					
				s, Good, H						
			•	s, Good, H						
			•	s, Good, H						
			•	ds, Good,						
				ds, Good,						
					e treated, HSG C					
0.	000				e treated, HSG D					
0.					rvious, HSG C					
0.	406				rvious, HSG D					
0.	000	71 Prop	osed deve	eloped mea	dow, non-grazed, HSG C					
0.	543	78 Prop	osed deve	eloped mea	dow, non-grazed, HSG D					
0.	000				dow to be treated, HSG C					
0.	000	78 Prop	osed deve	eloped mea	dow to be treated, HSG D					
1.	571	71 Prop	osed mea	dow, ski tra	ail, HSG C					
2.	925	78 Prop	osed mea	dow, ski tra	ail, HSG D					
0.	000	71 Prop	osed mea	dow, ski lift	; HSG C					
0.	000	78 Prop	osed mea	dow, ski lift	;, HSG D					
12.	671	76 Weig	ghted Aver	age						
12.	265	96.8	0% Pervio	us Area						
0.	406	3.20	% Impervi	ous Area						
			·							
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	·					
10.8	53	0.1800	0.08		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
5.0	440	0.3400	1.46		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.3	142	0.0800	7.46	22.39	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.041 Riprap, 2-inch					
0.6	62	0.5500	1.85		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
2.1	1,603	0.1370	12.71	152.58	Trap/Vee/Rect Channel Flow,					
					Bot.W=4.00' D=2.00' Z= 1.0 '/' Top.W=8.00'					
					n= 0.050 Mountain streams w/large boulders					
18.8	2,300	Total								

Summary for Subcatchment 35S: WS 6B

Runoff = 3.39 cfs @ 12.11 hrs, Volume= 0.246 af, Depth= 1.63"

Area	(ac)	CN	N Desc	cription									
0	.000	98	8 Untre	eated exis	rious, HSG A								
0	.000	98	8 Untre	Untreated existing impervious, HSG C									
0	.000	98	8 Untre	Untreated existing impervious, HSG D									
0	.000	98		Existing impervious to be treated as offset, HSG D									
0	.000	30	0 Exist	ting mead	ow, non-gra	azed, HSG A							
0	.000	7	1 Exist	ting mead	ow, non-gra	azed, HSG C							
0	.000	78	8 Exist	ting mead	ow, non-gra	azed, HSG D							
0	.000	30	0 Exist	ting Wood	s, Good, H	SG A							
0	.000	70	0 Exist	ting Wood	s, Good, H	SG C							
	.967	7			s, Good, H								
	.000	70			ds, Good,								
	.116	7			ds, Good,								
	.000	98				e treated, HSG C							
	.000	98				e treated, HSG D							
	.000	98				rvious, HSG C							
	.298	98				rvious, HSG D							
	.000	7				adow, non-grazed, HSG C							
	.434	78				adow, non-grazed, HSG D							
	.000	7				adow to be treated, HSG C							
	.000	78				adow to be treated, HSG D							
	.000	7			dow, ski tra								
	.000	78			dow, ski tra								
	.000	7			dow, ski lift								
	.000	78			dow, ski lift	t, HSG D							
	.815	8		ghted Aver									
	.517			8% Pervio									
Ü	.298		16.4	2% Imper	/ious Area								
т.	Lana	414	Clana	\/alaaitu	Canasitu	Description							
Tc			Slope	Velocity	Capacity	Description							
(min)	(fee		(ft/ft)	(ft/sec)	(cfs)	01 4 71							
10.7	6	32	0.2500	0.10		Sheet Flow,							
4.0	_		0.0500	4.05		Woods: Dense underbrush n= 0.800 P2= 2.40"							
1.2	ç	93	0.2500	1.25		Shallow Concentrated Flow,							
4 -	4.0		0.5500	4.05		Forest w/Heavy Litter Kv= 2.5 fps							
1.7	19	94	0.5500	1.85		Shallow Concentrated Flow,							
4.0	_	\ -	0.0700	4.00		Forest w/Heavy Litter Kv= 2.5 fps							
1.2	٤	97	0.2700	1.30		Shallow Concentrated Flow,							
2.0	00		0.4700	4.00		Forest w/Heavy Litter Kv= 2.5 fps							
3.8	23	54	0.1700	1.03		Shallow Concentrated Flow,							
						Forest w/Heavy Litter Kv= 2.5 fps							
18.6	68	30	Total										

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Summary for Subcatchment 36S: WS 6C

Runoff = 3.13 cfs @ 12.20 hrs, Volume= 0.279 af, Depth= 1.49"

Area	(ac)	CN	Desc	cription								
0	.000	98	Untre	eated exis	ting imperv	rious, HSG A						
0	.000	98	Untre	Untreated existing impervious, HSG C								
0	.000	98	Untre	Untreated existing impervious, HSG D								
0	.000	98				treated as offset, HSG D						
0	.000	30	Exist	ting meado	ow, non-gra	azed, HSG A						
0	.000	71	Exist	ting meado	ow, non-gra	azed, HSG C						
0	.000	78	Exist	ting meado	ow, non-gra	azed, HSG D						
0	.000	30	Exist	ting Wood	s, Good, H	SG A						
0	.000	70	Exist	ting Wood	s, Good, H	SG C						
	.784	77			s, Good, H							
	.000	70			ds, Good,							
	.244	77			ds, Good,							
	.000	98				e treated, HSG C						
	.000	98				e treated, HSG D						
	.000	98				rvious, HSG C						
	.214	98				rvious, HSG D						
	.000	71				dow, non-grazed, HSG C						
	.396	78				dow, non-grazed, HSG D						
	.000	71				adow to be treated, HSG C						
	.000	78				adow to be treated, HSG D						
	.000	71			dow, ski tra							
	.611	78			dow, ski tra							
	.000	71			dow, ski lift							
	.000	78			dow, ski lift	I, HSG D						
	.249	79		ghted Aver								
	.035			8% Pervio								
U	.214		9.52	% Impervi	ous Area							
Тс	Lengtl	h (Slope	Velocity	Canacity	Description						
(min)	(feet		Slope (ft/ft)	(ft/sec)	Capacity (cfs)	Description						
					(015)	Chaot Flour						
8.0	100	0.	1200	0.21		Sheet Flow,						
0.6	20	2	1000	0.07		n= 0.240 P2= 2.40"						
0.6	29	9 0.	1200	0.87		Shallow Concentrated Flow,						
0.2	82	2 0	1500	7.25	14.50	Forest w/Heavy Litter Kv= 2.5 fps						
0.2	04	2 0.	1500	1.25	14.50	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' n= 0.050						
7.1	28	1 0	0700	0.66		Shallow Concentrated Flow,						
7.1	20	1 0.	0700	0.00								
10.0	150	n n	0100	0.25		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,						
10.0	130	υ.	0100	0.23		Forest w/Heavy Litter Kv= 2.5 fps						
25.9	642	2 T	 otal			1 01001 W/110avy Lillor 11v- 2.0 1po						
25.9	044	۱ د	Jiai									

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Summary for Subcatchment 37S: WS 7

Runoff = 1.69 cfs @ 12.05 hrs, Volume= 0.103 af, Depth= 1.42"

Area	(ac) (CN Des	scription								
0	.000	98 Unt	Untreated existing impervious, HSG A								
0	.000	98 Unt	Jntreated existing impervious, HSG C								
0	.056	98 Unt	Jntreated existing impervious, HSG D								
					treated as offset, HSG D						
					azed, HSG A						
					azed, HSG C						
			•	, ,	azed, HSG D						
				s, Good, H							
				s, Good, H							
				s, Good, H							
				ods, Good,							
				ods, Good,							
					pe treated, HSG C						
					pe treated, HSG D						
					ervious, HSG C						
					ervious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
				eloped mea idow, ski tra	adow to be treated, HSG D						
				idow, ski tra idow, ski tra							
				idow, ski lif idow, ski lif							
				idow, ski lif idow, ski lif							
			ighted Ave		i, 1100 D						
	.816		58% Pervic								
	.056		2% Impervi								
U	.030	0.4	2 /6 IIIIpei vi	ous Alea							
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)			(cfs)	Description						
10.7	43			(6.6)	Sheet Flow,						
10.7	43	0.1200	0.07		Woods: Dense underbrush n= 0.800 P2= 2.40"						
1.9	92	0.1000	0.79		Shallow Concentrated Flow,						
1.5	32	0.1000	0.73		Forest w/Heavy Litter Kv= 2.5 fps						
0.3	253	0.0500	16.63	166.28	Trap/Vee/Rect Channel Flow,						
0.5	200	0.0000	10.00	100.20	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'						
					n= 0.022 Earth, clean & straight						
0.1	130	0.0800	21.03	210.33							
0.1	100	0.0000	21.00	210.00	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'						
					n= 0.022 Earth, clean & straight						
13.0	518	Total									
10.0	010	1000									

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Summary for Subcatchment 38S: WS 7A

Runoff = 11.17 cfs @ 11.93 hrs, Volume= 0.489 af, Depth= 2.01"

Area	(ac) (CN Des	scription								
0	.000	98 Unt	reated exis	ting imperv	rious, HSG A						
0	.000		Untreated existing impervious, HSG C								
0	.000	98 Unt	Intreated existing impervious, HSG D								
					treated as offset, HSG D						
0	.000	30 Exi	sting mead	ow, non-gra	azed, HSG A						
0	.000	71 Exi	sting mead	ow, non-gra	azed, HSG C						
0	.000				azed, HSG D						
0	.000	30 Exi	sting Wood	s, Good, H	SG A						
0	.000	70 Exi	sting Wood	s, Good, H	SG C						
0	.331			s, Good, H							
0	.000	70 Pro	posed Woo	ods, Good,	HSG C						
0	.000	77 Pro	posed Woo	ods, Good,	HSG D						
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					ndow, non-grazed, HSG C						
					dow, non-grazed, HSG D						
					adow to be treated, HSG C						
	.420				adow to be treated, HSG D						
				ndow, ski tra							
				ndow, ski tra							
	.000		•	dow, ski lift							
	.000		•	dow, ski lif	I, H5G D						
			ighted Ave								
	.751		95% Pervio								
1	.170	40.	05% Imper	vious Area							
Тс	Length	Clana	Velocity	Capacity	Description						
(min)	(feet)			(cfs)	Description						
				(015)	Chaot Flour						
1.4	100	0.0200	1.19		Sheet Flow,						
0.2	33	0.0200	2.87		Smooth surfaces n= 0.011 P2= 2.40"						
0.2	33	0.0200	2.07		Shallow Concentrated Flow,						
0.1	37	0.4600	4.75		Paved Kv= 20.3 fps Shallow Concentrated Flow,						
0.1	31	0.4000	4.75		Short Grass Pasture Kv= 7.0 fps						
0.5	86	0.1400	2.62		Shallow Concentrated Flow,						
0.5	00	0.1400	2.02		Short Grass Pasture Kv= 7.0 fps						
0.2	190	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow,						
0.2	130	0.1200	17.04	51.11	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.022						
					· · · · · · · · · · · · · · · · · · ·						

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Summary for Subcatchment 39S: WS 7B

Runoff = 2.18 cfs @ 11.97 hrs, Volume= 0.105 af, Depth= 1.42"

Area	(ac) C	N Des	cription								
0	.000	98 Untr	Untreated existing impervious, HSG A								
0.	.000	98 Untr	Untreated existing impervious, HSG C								
0.	.000	98 Untr	Jntreated existing impervious, HSG D								
0.	.000	98 Exis	ting imper	vious to be	treated as offset, HSG D						
0.	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A						
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
			ting Wood	s, Good, H	SG A						
0.	.000			s, Good, H							
				s, Good, H							
0.			osed Woo	ods, Good,	HSG C						
0.				ods, Good,							
0.	.000	98 Prop	osed impe	ervious to b	e treated, HSG C						
					pe treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
				idow, ski tra							
				dow, ski tra							
				dow, ski lif							
				dow, ski lif	t, HSG D						
			ghted Ave								
0	.886	100	.00% Perv	ious Area							
_		٥.									
Tc	Length		Velocity	Capacity	Description						
(min)	(feet)		(ft/sec)	(cfs)							
4.1	51	0.1700	0.21		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
0.3	57	0.1700	2.89		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
1.0	146	0.1100	2.32		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
0.0	13	0.4600	4.75		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
0.5	67	0.1200	2.42		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
5.9	334	Total									

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Summary for Subcatchment 40S: WS 7C

Runoff = 9.40 cfs @ 12.14 hrs, Volume= 0.730 af, Depth= 1.29"

Area	(ac) C	N Desc	cription								
0.	.000	98 Untr	eated exis	ting imperv	ious, HSG A						
			Intreated existing impervious, HSG C								
			Intreated existing impervious, HSG D								
					treated as offset, HSG D						
			• .		azed, HSG A						
			•		azed, HSG C						
					azed, HSG D						
				s, Good, H							
				s, Good, H							
				s, Good, H							
			•	ds, Good, III							
				ds, Good, ds, Good,							
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					idow, non-grazed, HSG C						
					idow, non-grazed, HSG D						
					idow to be treated, HSG C						
				•	idow to be treated, HSG D						
				dow, ski tra	·						
				dow, ski tra							
				dow, ski lift							
				dow, ski lift							
			hted Aver		, -						
	355		1% Pervio	•							
	419		% Impervi								
0.		00	, opo	040704							
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	'						
10.8	65	0.2700	0.10	,	Sheet Flow,						
10.0	00	0.2.00	00		Woods: Dense underbrush n= 0.800 P2= 2.40"						
7.4	508	0.2100	1.15		Shallow Concentrated Flow,						
		0.2.00			Forest w/Heavy Litter Kv= 2.5 fps						
0.4	107	0.0400	4.58	54.96	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00'						
					n= 0.069 Riprap, 6-inch						
0.5	407	0.1600	12.66	142.37	Trap/Vee/Rect Channel Flow,						
					Bot.W=6.00' D=1.50' Z= 1.0 '/' Top.W=9.00'						
					n= 0.050 Mountain streams w/large boulders						
1.0	57	0.1400	0.94		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
20.1	1,144	Total			·						

Summary for Subcatchment 41S: WS 7D

Runoff = 3.02 cfs @ 12.03 hrs, Volume= 0.174 af, Depth= 1.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 10-Year Rainfall=3.40"

Area	(ac) C	N Des	cription							
0.	000	98 Untr	eated exist	ting imperv	ious, HSG A					
0.	000	98 Untr	Jntreated existing impervious, HSG C							
0.	000	98 Untr	eated exist	ting imperv	ious, HSG D					
0.	000	98 Exis	ting imperv	ious to be	treated as offset, HSG D					
0.	000	30 Exis	ting meado	ow, non-gra	azed, HSG A					
0.	000	71 Exis	ting meado	ow, non-gra	azed, HSG C					
0.			ting meado	ow, non-gra	azed, HSG D					
				s, Good, H						
0.	000	70 Exis	ting Woods	s, Good, H	SG C					
				s, Good, H						
				ds, Good, l						
				ds, Good, l						
					e treated, HSG C					
					e treated, HSG D					
					rvious, HSG C					
					rvious, HSG D					
				•	dow, non-grazed, HSG C					
					dow, non-grazed, HSG D					
					dow to be treated, HSG C					
					dow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lift						
_				dow, ski lift	t, HSG D					
			ghted Aver							
	679		4% Pervio							
0.	405	37.3	6% Imperv	ious Area						
То	Longth	Clana	Volocity	Canacity	Description					
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description					
10.8	57	0.2100	0.09	(010)	Sheet Flow,					
10.0	01	0.2100	5.05		Woods: Dense underbrush n= 0.800 P2= 2.40"					
0.5	99	0.2100	3.21		Shallow Concentrated Flow,					
0.0		5.2.00	J. <u>~</u> 1		Short Grass Pasture Kv= 7.0 fps					
11.3	156	Total								

Summary for Subcatchment 42S: WS 7E

Runoff = 4.91 cfs @ 12.08 hrs, Volume= 0.328 af, Depth= 1.56"

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Area (a	ac) C	N Des	cription									
				ting imperv	ious, HSG A							
			Jntreated existing impervious, HSG C									
			Intreated existing impervious, HSG D									
					treated as offset, HSG D							
			• .		azed, HSG A							
					nzed, HSG C							
0.0	000 7				azed, HSG D							
0.0	000 3			s, Good, H								
0.0	000 7	'0 Exis	ting Wood	s, Good, H	SG C							
1.3	342 7	77 Exis	ting Wood	s, Good, H	SG D							
		'0 Prop	osed Woo	ds, Good, l	HSG C							
				ds, Good, l								
					e treated, HSG C							
					e treated, HSG D							
					rvious, HSG C							
					rvious, HSG D							
					dow, non-grazed, HSG C							
				•	dow, non-grazed, HSG D							
					dow to be treated, HSG C							
				•	dow to be treated, HSG D							
				dow, ski tra								
				dow, ski tra								
				dow, ski lift dow, ski lift								
					, 113G D							
	221 221		ghted Aver 5% Pervio									
	310		5% Pervio 5% Imper									
0.3	510	12.2	5 % imperv	ilous Alea								
Тс	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Description							
10.7	63	0.2600	0.10	(013)	Sheet Flow,							
10.7	03	0.2000	0.10		Woods: Dense underbrush n= 0.800 P2= 2.40"							
0.9	70	0.2600	1.27		Shallow Concentrated Flow,							
0.5	70	0.2000	1.21		Forest w/Heavy Litter Kv= 2.5 fps							
0.8	85	0.4700	1.71		Shallow Concentrated Flow,							
0.0	00	0.4700	1.7 1		Forest w/Heavy Litter Kv= 2.5 fps							
1.7	179	0.4700	1.71		Shallow Concentrated Flow,							
•••		3 00			Forest w/Heavy Litter Kv= 2.5 fps							
1.7	119	0.2200	1.17		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
15.8	516	Total			·							

Summary for Subcatchment 43S: WS 7F

Runoff = 10.49 cfs @ 12.05 hrs, Volume= 0.636 af, Depth= 1.63"

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Area	(ac) C	N Des	cription									
0.	000	98 Untr	Intreated existing impervious, HSG A									
			Jntreated existing impervious, HSG C									
0.	000		Intreated existing impervious, HSG D									
0.	000				treated as offset, HSG D							
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A							
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C							
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D							
0.	000	30 Exis	ting Wood	s, Good, H	SG A							
0.	000	70 Exis	ting Wood	s, Good, H	SG C							
2.	397	77 Exis	ting Wood	s, Good, H	SG D							
0.	000	70 Prop	osed Woo	ds, Good,	HSG C							
				ds, Good,								
					e treated, HSG C							
					oe treated, HSG D							
					rvious, HSG C							
					rvious, HSG D							
					adow, non-grazed, HSG C							
					adow, non-grazed, HSG D							
					adow to be treated, HSG C							
					adow to be treated, HSG D							
				dow, ski tra								
				dow, ski tra								
				dow, ski lif								
-				dow, ski lif	t, HSG D							
			ghted Avei									
	977		0% Pervio									
0.	713	15.2	0% Imper	vious Area								
-		01			B							
Tc	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)								
10.7	73	0.3500	0.11		Sheet Flow,							
4 -	4.4-	0.0500	4 40		Woods: Dense underbrush n= 0.800 P2= 2.40"							
1.7	147	0.3500	1.48		Shallow Concentrated Flow,							
0.4	000	0.0400	40.55	400.00	Forest w/Heavy Litter Kv= 2.5 fps							
0.4	286	0.2400	12.55	100.38	Trap/Vee/Rect Channel Flow,							
0.0	470	0.0000	4445	407.00	Bot.W=8.00' D=1.00' n= 0.050							
0.2	170	0.2900	14.15	127.33	Trap/Vee/Rect Channel Flow,							
					Bot.W=8.00' D=1.00' Z= 1.0 '/' Top.W=10.00'							
40.0	070	T-4-1			n= 0.050							
13.0	676	Total										

Summary for Subcatchment 44S: WS 7G

Runoff = 5.55 cfs @ 12.20 hrs, Volume= 0.493 af, Depth= 1.63"

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Area ((ac) C	N Des	cription									
0.0	000	98 Untr	eated exist	ting imperv	rious, HSG A							
0.0	000	98 Untr	ntreated existing impervious, HSG C									
0.0	000		ntreated existing impervious, HSG D									
0.0	000		xisting impervious to be treated as offset, HSG D									
0.0					azed, HSG A							
					azed, HSG C							
					azed, HSG D							
				s, Good, H								
			•	s, Good, H								
			•	s, Good, H								
				ds, Good,								
				ds, Good,								
					e treated, HSG C							
			•		e treated, HSG D							
			•		rvious, HSG C							
					rvious, HSG D							
					idow, non-grazed, HSG C							
					idow, non-grazed, HSG D							
					idow to be treated, HSG C							
					idow to be treated, HSG D							
				dow, ski tra								
				dow, ski tra								
				dow, ski lift								
				dow, ski lift								
			ghted Aver		<i>,</i>							
	081		5% Pervio									
	550		5% Imperv									
Tc	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	1							
7.4	100	0.1500	0.23	, ,	Sheet Flow,							
		0000	0.20		Grass: Dense n= 0.240 P2= 2.40"							
1.3	75	0.1500	0.97		Shallow Concentrated Flow,							
	. •		0.0.		Forest w/Heavy Litter Kv= 2.5 fps							
0.3	28	0.5000	1.77		Shallow Concentrated Flow,							
0.0		0.000			Forest w/Heavy Litter Kv= 2.5 fps							
4.1	194	0.1000	0.79		Shallow Concentrated Flow,							
			00		Forest w/Heavy Litter Kv= 2.5 fps							
4.6	181	0.0700	0.66		Shallow Concentrated Flow,							
		0.0.00	0.00		Forest w/Heavy Litter Kv= 2.5 fps							
8.2	276	0.0500	0.56		Shallow Concentrated Flow,							
J	5		2.00		Forest w/Heavy Litter Kv= 2.5 fps							
0.2	53	0.0400	4.33	12.98	Trap/Vee/Rect Channel Flow,							
V. _					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
					n= 0.050 Mountain streams w/large boulders							
26.1	907	Total			······································							
۷. ۱	301	iotai										

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Summary for Subcatchment 45S: WS 7H

Runoff = 5.00 cfs @ 12.00 hrs, Volume= 0.253 af, Depth= 1.23"

Area	(ac) C	N Des	cription							
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A					
0.	.000		Untreated existing impervious, HSG C							
0.	.000	98 Untr	Untreated existing impervious, HSG D							
0.	.000				treated as offset, HSG D					
0.	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A					
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C					
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
0.	.000	30 Exis	ting Wood	s, Good, H	SG A					
0.	.619	70 Exis	ting Wood	s, Good, H	SG C					
			ting Wood	s, Good, H	SG D					
				ds, Good,						
				ds, Good,						
			•		e treated, HSG C					
			•		e treated, HSG D					
				•	rvious, HSG C					
					rvious, HSG D					
				•	adow, non-grazed, HSG C					
					adow, non-grazed, HSG D					
			Proposed developed meadow to be treated, HSG C							
			8 Proposed developed meadow to be treated, HSG D							
			Proposed meadow, ski trail, HSG C							
			Proposed meadow, ski trail, HSG D Proposed meadow, ski lift, HSG C							
				dow, ski lift						
			ghted Aver		., 1100 2					
	.132		9% Pervio							
	.336			ious Area						
			. ,							
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	•					
0.9	100	0.0600	1.85	, ,	Sheet Flow,					
					n= 0.011 P2= 2.40"					
0.5	18	0.0600	0.61		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.3	31	0.4800	1.73		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
3.3	196	0.1600	1.00		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
2.6	158	0.1600	1.00		Shallow Concentrated Flow,					
. .			0.40	40.45	Forest w/Heavy Litter Kv= 2.5 fps					
0.1	56	0.0900	6.49	19.48	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.050					

7.7 559 Total

Summary for Subcatchment 46S: WS 8

Runoff = 0.81 cfs @ 12.04 hrs, Volume= 0.047 af, Depth= 1.63"

Area	(ac) C	N Des	cription							
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A					
0.	000		Untreated existing impervious, HSG C							
0.	066	98 Untr	eated exis	ting imperv	rious, HSG D					
0.	000	98 Exis	ting imper	vious to be	treated as offset, HSG D					
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A					
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C					
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
0.	000	30 Exis	ting Wood	s, Good, H	SG A					
0.	000	70 Exis	ting Wood	s, Good, H	SG C					
			•	s, Good, H						
				ds, Good,						
				ds, Good,						
					e treated, HSG C					
					oe treated, HSG D					
					rvious, HSG C					
					rvious, HSG D					
					adow, non-grazed, HSG C					
					adow, non-grazed, HSG D					
				•	adow to be treated, HSG C					
					adow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lif						
				dow, ski lif	t, HSG D					
			ghted Aver							
	278		1% Pervio							
0.	066	19.1	9% Imper	/ious Area						
_		01			B					
Tc	Length		Velocity	Capacity	Description					
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.9	40	0.1000	0.06		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
0.2	11	0.1000	0.79		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.4	276	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
		-			n= 0.022					
11.5	327	Total								

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Summary for Subcatchment 47S: WS 9

Runoff = 0.37 cfs @ 12.03 hrs, Volume= 0.021 af, Depth= 1.70"

Area ((ac) (CN Des	cription							
0.0	000	98 Unti	reated exis	ting imperv	rious, HSG A					
0.0	000	98 Untı	Untreated existing impervious, HSG C							
0.0	036	98 Untı	reated exis	ting imperv	rious, HSG D					
0.0	000	98 Exis	ting imper	vious to be	treated as offset, HSG D					
0.0			ting mead	ow, non-gra	azed, HSG A					
0.0			ting mead	ow, non-gra	azed, HSG C					
0.0	000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
				s, Good, H						
0.0	000			s, Good, H						
				s, Good, H						
				ds, Good,						
				ds, Good,						
					e treated, HSG C					
					oe treated, HSG D					
					rvious, HSG C					
			Untreated proposed impervious, HSG D							
			Proposed developed meadow, non-grazed, HSG C							
			Proposed developed meadow, non-grazed, HSG D							
					adow to be treated, HSG C					
					adow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lift						
				dow, ski lif	t, HSG D					
			ghted Aver							
	112		88% Pervio							
0.0	036	24.3	32% Imper	/ious Area						
Тс	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.9	38	0.0900	0.06		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
0.2	173	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022					
11.1	211	Total								

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Summary for Subcatchment 48S: WS 10

Runoff = 2.90 cfs @ 11.99 hrs, Volume= 0.145 af, Depth= 1.42"

Area	(ac)	C١	N Desc	cription								
0	.000	98	3 Untr	eated exis	ting imperv	ious, HSG A						
0	.000	98		Untreated existing impervious, HSG C								
0	.000	98	3 Untr	eated exis	ting imperv	ious, HSG D						
0	.000	98	B Exist	ting imper	vious to be	treated as offset, HSG D						
0	.000	30) Exist	ting mead	ow, non-gra	azed, HSG A						
0	.000	71	1 Exist	ting mead	ow, non-gra	azed, HSG C						
0	.000	78	B Exist	ting mead	ow, non-gra	azed, HSG D						
0	.000	30) Exist	ting Wood	s, Good, H	SG A						
0	.000	70) Exist	ting Wood	s, Good, H	SG C						
0	.332	77	7 Exist	ting Wood	s, Good, H	SG D						
0	.000	70) Prop	osed Woo	ds, Good,	HSG C						
0	.175	77		osed Woo	ds, Good,	HSG D						
	.000	98				e treated, HSG C						
	.000	98				e treated, HSG D						
	.000	98				rvious, HSG C						
	.000	98				rvious, HSG D						
	.000	71				dow, non-grazed, HSG C						
	.208	78				dow, non-grazed, HSG D						
	.000	7			•	dow to be treated, HSG C						
	.000	78				dow to be treated, HSG D						
	.000	7			dow, ski tra							
	.513	78			dow, ski tra							
	.000	7			dow, ski lift							
	.000	78			dow, ski lift	; HSG D						
	.228	78		ghted Aver								
1	.228		100.	00% Pervi	ous Area							
_			٥.									
Tc			Slope	Velocity	Capacity	Description						
(min)	(fee		(ft/ft)	(ft/sec)	(cfs)							
4.2	(38	0.0900	0.15		Sheet Flow,						
						Grass: Dense n= 0.240 P2= 2.40"						
0.7	8	34	0.0900	2.10		Shallow Concentrated Flow,						
						Short Grass Pasture Kv= 7.0 fps						
1.1	7	79	0.2300	1.20		Shallow Concentrated Flow,						
						Forest w/Heavy Litter Kv= 2.5 fps						
1.6	10	06	0.1900	1.09		Shallow Concentrated Flow,						
						Forest w/Heavy Litter Kv= 2.5 fps						
7.6	30	07	Total									

Summary for Subcatchment 49S: WS 10A

Runoff = 6.04 cfs @ 12.03 hrs, Volume= 0.345 af, Depth= 1.42"

Area	(ac) C	N Des	cription								
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A						
0.	000	98 Untr	Untreated existing impervious, HSG C								
0.	000	98 Untr	Untreated existing impervious, HSG D								
0.	000	98 Exis	ting imper	vious to be	treated as offset, HSG D						
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A						
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.			ting mead	ow, non-gra	azed, HSG D						
				s, Good, H							
				s, Good, H							
				s, Good, H							
0.	003	70 Prop	osed Woo	ds, Good,	HSG C						
				ds, Good,							
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					idow, non-grazed, HSG C						
					idow, non-grazed, HSG D						
					dow to be treated, HSG C						
			Proposed developed meadow to be treated, HSG D								
				dow, ski tra							
				dow, ski tra							
				dow, ski lift							
				dow, ski lift	t, HSG D						
		•	ghted Avei	•							
	727		8% Pervio								
0.	184	6.32	% Impervi	ous Area							
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
6.3	100	0.2200	0.26		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
0.9	122	0.1100	2.32		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
1.0	154	0.1400	2.62		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
2.8	204	0.2400	1.22		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
11.0	580	Total									

Summary for Subcatchment 50S: WS 10B

Runoff = 8.84 cfs @ 12.10 hrs, Volume= 0.616 af, Depth= 1.23"

Area	(ac) C	CN Des	cription							
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A					
0.	000	98 Untr	Jntreated existing impervious, HSG C							
0.	000	98 Untr	eated exis	ting imperv	vious, HSG D					
0.	000	98 Exis	ting imper	vious to be	treated as offset, HSG D					
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A					
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C					
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
0.	000	30 Exis	ting Wood	s, Good, H	SG A					
0.	876	70 Exis	ting Wood	s, Good, H	SG C					
0.	149			s, Good, H						
1.	162	70 Prop	osed Woo	ds, Good,	HSG C					
			osed Woo	ds, Good,	HSG D					
					pe treated, HSG C					
					pe treated, HSG D					
					ervious, HSG C					
					ervious, HSG D					
					adow, non-grazed, HSG C					
					adow, non-grazed, HSG D					
					adow to be treated, HSG C					
					adow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lif						
				dow, ski lif	t, HSG D					
			ghted Aver							
	152		7% Pervio							
0.	855	14.2	3% Imper	∕ious Area						
Tc	Length		Velocity	Capacity	Description					
(min)	(feet)		(ft/sec)	(cfs)						
10.8	56	0.2000	0.09		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
4.5	355	0.2800	1.32		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
1.2	533	0.1200	7.50	22.49	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.050 Mountain streams w/large boulders					
16.5	944	Total								

Summary for Subcatchment 51S: WS 10C

Runoff = 3.37 cfs @ 12.07 hrs, Volume= 0.219 af, Depth= 1.70"

Area	(ac)	CN	Desc	cription								
0.	000	98	Untre	eated exis	ting imperv	rious, HSG A						
0.	000	98		Untreated existing impervious, HSG C								
0.	000	98				rious, HSG D						
0.	000	98	Exist	ting imperv	ious to be	treated as offset, HSG D						
0.	000	30	Exist	ting meado	ow, non-gra	azed, HSG A						
0.	000	71	Exist	ing meado	ow, non-gra	azed, HSG C						
	000	78				azed, HSG D						
	000	30			s, Good, H							
	003	70			s, Good, H							
	288	77			s, Good, H							
	000	70			ds, Good,							
	000	77			ds, Good,							
	196	98				pe treated, HSG C						
	282	98				pe treated, HSG D						
	000	98		Untreated proposed impervious, HSG C								
	000	98				rvious, HSG D						
	000	71				adow, non-grazed, HSG C						
	000	78				adow, non-grazed, HSG D						
	364	71				adow to be treated, HSG C						
	413	78				adow to be treated, HSG D						
	000	71			dow, ski tra							
	000	78			dow, ski tra							
	000	71			dow, ski lift							
	000	78			dow, ski lift	I, HSG D						
	546	82		hted Aver	•							
	068			8% Pervio								
0.	478		30.9	2% imperv	ious Area							
Tc	Lengt	h CI	lope	Velocity	Capacity	Description						
(min)	(feet		ft/ft)	(ft/sec)	(cfs)	Description						
10.8	6		2800	0.10	(013)	Sheet Flow,						
10.0	O.	0 0.2	.000	0.10		Woods: Dense underbrush n= 0.800 P2= 2.40"						
1.8	14	6 02	800	1.32		Shallow Concentrated Flow,						
1.0	14	0 0.2	.000	1.52		Forest w/Heavy Litter Kv= 2.5 fps						
2.4	16	2 0 2	2000	1.12		Shallow Concentrated Flow,						
۷.٦	10.	_ 0.2	.000	1.12		Forest w/Heavy Litter Kv= 2.5 fps						
15.0	37	4 Tot	tal									

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Summary for Subcatchment 52S: WS 11

Runoff = 4.85 cfs @ 12.05 hrs, Volume= 0.289 af, Depth= 1.42"

Area	(ac) (CN Des	cription							
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A					
0.			Untreated existing impervious, HSG C							
0.	051		Untreated existing impervious, HSG D							
0.	000	98 Exis	ting imper	vious to be	treated as offset, HSG D					
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A					
			ting mead	ow, non-gra	azed, HSG C					
			ting mead	ow, non-gra	azed, HSG D					
			•	s, Good, H						
			•	s, Good, H						
			•	s, Good, H						
				ds, Good,						
				ds, Good,						
					e treated, HSG C					
					e treated, HSG D					
				•	rvious, HSG C					
					rvious, HSG D					
					dow, non-grazed, HSG C					
					idow, non-grazed, HSG D					
				•	idow to be treated, HSG C idow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lift						
				dow, ski lift						
			ghted Aver							
	389	•	1% Pervio							
	051		% Impervi							
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	•					
8.7	100	0.1000	0.19	· ·	Sheet Flow,					
					Grass: Dense n= 0.240 P2= 2.40"					
1.0	130	0.1000	2.21		Shallow Concentrated Flow,					
					Short Grass Pasture Kv= 7.0 fps					
0.3	29	0.4100	1.60		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
1.6	105	0.1900	1.09		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.7	216	0.1000	4.96	14.88	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.069 Riprap, 6-inch					
12.3	580	Total								

2.9

440 Total

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Summary for Subcatchment 53S: WS 11A

Runoff = 11.62 cfs @ 11.93 hrs, Volume= 0.531 af, Depth= 2.45"

Area	(ac) C	N Des	cription								
0	.000	98 Untr	eated exis	ting imperv	ious, HSG A						
0.	.000	98 Untr	Untreated existing impervious, HSG C								
0.	.000	98 Untr	eated exis	ting imperv	ious, HSG D						
0.			ting imperv	vious to be	treated as offset, HSG D						
0.			ting meado	ow, non-gra	azed, HSG A						
					azed, HSG C						
					azed, HSG D						
				s, Good, H							
				s, Good, H							
				s, Good, H							
				ds, Good, l							
				ds, Good, l							
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					dow, non-grazed, HSG C						
					dow, non-grazed, HSG D						
					dow to be treated, HSG C						
					dow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lift							
_				dow, ski lift	., NSG D						
			ghted Aver								
	.906		7% Pervio								
1.	.700	65.2	3% imper	/ious Area							
т.	ما المحمد ا	Clana	\/alaaitu	Canacity	December						
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Object Floor						
0.7	100	0.1000	2.27		Sheet Flow,						
0.0	04	0.4000	4.00		Smooth surfaces n= 0.011 P2= 2.40"						
0.2	21	0.1000	1.66		Sheet Flow,						
0.4	70	0.2700	0.40		Smooth surfaces n= 0.011 P2= 2.40"						
0.1	70	0.3700	9.12		Shallow Concentrated Flow,						
4.0	040	0.0000	0.00	6.65	Grassed Waterway Kv= 15.0 fps						
1.9	249	0.0200	2.22	6.65	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
	4.40	T . 4 . 1			n= 0.069 Riprap, 6-inch						

Summary for Subcatchment 54S: WS 11B

Runoff = 7.31 cfs @ 11.98 hrs, Volume= 0.353 af, Depth= 1.70"

Area	(ac)	CN	Desc	cription							
0.	.000	98	Untre	eated exis	ting imperv	ious, HSG A					
0.	.000	98	Untre	Untreated existing impervious, HSG C							
0.	.000	98	Untre	eated exis	ting imperv	ious, HSG D					
0.	.000	98	Exist	ting imperv	vious to be	treated as offset, HSG D					
0.	.000	30	Exist	ting meado	ow, non-gra	azed, HSG A					
0.	.000	71	Exist	ting meado	ow, non-gra	azed, HSG C					
0.	.000	78	Exist	ting meado	ow, non-gra	azed, HSG D					
0.	.000	30	Exist	ing Wood	s, Good, H	SG A					
0.	.000	70	Exist	ing Wood	s, Good, H	SG C					
0.	.000	77	Exist	ing Wood	s, Good, H	SG D					
0.	.000	70	Prop	osed Woo	ds, Good,	HSG C					
0.	.000	77	Prop	osed Woo	ds, Good,	HSG D					
	.772	98				e treated, HSG C					
0.	.167	98	Prop	osed impe	ervious to b	e treated, HSG D					
0.	.000	98				rvious, HSG C					
	.000	98				rvious, HSG D					
	.000	71				dow, non-grazed, HSG C					
	.000	78				dow, non-grazed, HSG D					
	.233	71				dow to be treated, HSG C					
	.316	78				dow to be treated, HSG D					
	.000	71			dow, ski tra						
	.000	78			dow, ski tra						
	.000	71			dow, ski lift						
0.	.000	78	Prop	osed mea	dow, ski lift	t, HSG D					
2.	.488	82	Weig	hted Aver	age						
1.	.549		62.2	6% Pervio	us Area						
0.	.939		37.7	4% Imper	/ious Area						
Tc	Lengt		Slope	Velocity	Capacity	Description					
(min)	(feet	t)	(ft/ft)	(ft/sec)	(cfs)						
4.8	10	0 0.	.4400	0.35		Sheet Flow,					
						Grass: Dense n= 0.240 P2= 2.40"					
0.1	3	6 0.	.4400	4.64		Shallow Concentrated Flow,					
						Short Grass Pasture Kv= 7.0 fps					
1.3	24	6 0.	.0200	3.24	38.86	Trap/Vee/Rect Channel Flow,					
						Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00'					
						n= 0.069 Riprap, 6-inch					
6.2	38	2 T	otal								

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Summary for Subcatchment 55S: WS 12

Runoff = 6.05 cfs @ 12.05 hrs, Volume= 0.362 af, Depth= 1.42"

Area	(ac) C	N Des	cription							
0	.000	98 Untr	eated exis	ting imperv	rious, HSG A					
0	.000				rious, HSG C					
			Untreated existing impervious, HSG D							
					treated as offset, HSG D					
					azed, HSG A					
			•		azed, HSG C					
					azed, HSG D					
				s, Good, H						
				s, Good, H						
			•	s, Good, H						
				ds, Good,						
				ds, Good,						
					e treated, HSG C					
			•		pe treated, HSG D					
					rvious, HSG C					
0	.000				rvious, HSG D					
0	.000				adow, non-grazed, HSG C					
0	.243	78 Prop	osed deve	eloped mea	adow, non-grazed, HSG D					
0	.000	71 Prop	osed deve	eloped mea	adow to be treated, HSG C					
0	.000	78 Prop	osed deve	eloped mea	adow to be treated, HSG D					
0	.000	71 Prop	Proposed meadow, ski trail, HSG C							
			Proposed meadow, ski trail, HSG D							
0	.000	71 Prop	osed mea	dow, ski lif	t, HSG C					
0	.000	78 Prop	osed mea	dow, ski lif	t, HSG D					
3	.052	78 Weig	ghted Aver	age						
3	.017	98.8	5% Pervio	us Area						
0	.035	1.15	% Impervi	ous Area						
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
9.5	100	0.0800	0.18		Sheet Flow,					
					Grass: Dense n= 0.240 P2= 2.40"					
1.5	174	0.0800	1.98		Shallow Concentrated Flow,					
					Short Grass Pasture Kv= 7.0 fps					
0.1	17	0.3500	4.14		Shallow Concentrated Flow,					
					Short Grass Pasture Kv= 7.0 fps					
0.3	204	0.1700	9.95	49.77	Trap/Vee/Rect Channel Flow,					
					Bot.W=4.00' D=1.00' Z= 1.0 '/' Top.W=6.00'					
					n= 0.050					
1.0	245	0.0700	4.15	12.45						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.069					
40.4	- 40									

Summary for Subcatchment 56S: WS 12A

Runoff = 3.88 cfs @ 11.93 hrs, Volume= 0.165 af, Depth= 1.42"

Area	(ac) (CN Des	cription							
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A					
0.	000		Untreated existing impervious, HSG C							
0.	000	98 Untr	eated exis	ting imperv	rious, HSG D					
0.	000	98 Exis	ting imper	vious to be	treated as offset, HSG D					
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A					
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C					
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
0.	000	30 Exis	ting Wood	s, Good, H	SG A					
0.	000	70 Exis	ting Wood	s, Good, H	SG C					
0.	777	77 Exis	ting Wood	s, Good, H	SG D					
0.	000	70 Prop	osed Woo	ds, Good,	HSG C					
0.			osed Woo	ds, Good,	HSG D					
					pe treated, HSG C					
					pe treated, HSG D					
					ervious, HSG C					
					ervious, HSG D					
					adow, non-grazed, HSG C					
					adow, non-grazed, HSG D					
				•	adow to be treated, HSG C					
					adow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lif						
				dow, ski lif	t, HSG D					
			ghted Aver							
	355		34% Pervio							
0.	037	2.66	6% Impervi	ous Area						
_										
Tc	Length		Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
0.4	33	0.0600	1.48		Sheet Flow,					
					Smooth surfaces n= 0.011 P2= 2.40"					
1.4	87	0.1600	1.00		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.3	254	0.1800	12.62	104.09	Trap/Vee/Rect Channel Flow,					
					Bot.W=4.00' D=1.50' Z= 1.0 '/' Top.W=7.00'					
					n= 0.050 Mountain streams w/large boulders					
2.2	374	Total								

13.8

801 Total

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Summary for Subcatchment 57S: WS 12B

Runoff = 2.67 cfs @ 12.07 hrs, Volume= 0.174 af, Depth= 1.06"

0.000 98	_	Area	(ac) C	N Des	cription							
0.000 98		0.	000	98 Untr	eated exis	ting imperv	ious, HSG A					
0.000 98		0.	000	98 Untr	eated exis	ting imperv	ious, HSG C					
0.000 30		0.	000	98 Untr	eated exis	ting imperv	ious, HSG D					
0.000 30		, , , , , , , , , , , , , , , , , , ,										
0.000		0.000 30 Existing meadow, non-grazed, HSG A										
0.000 30 Existing Woods, Good, HSG C 0.082 70 Existing Woods, Good, HSG D 0.000 77 Proposed Woods, Good, HSG D 0.000 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG D 0.004 98 Proposed impervious, HSG D 0.046 98 Untreated proposed impervious, HSG D 0.095 71 Proposed developed meadow, non-grazed, HSG D 0.095 71 Proposed developed meadow, non-grazed, HSG D 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 78 Proposed meadow, ski trail, HSG D 0.000 78 Proposed meadow, ski lift, HSG D 0.000 78 Proposed meadow, ski lift, HSG D 1.973 72 Weighted Average 1.923 97.47% Pervious Area 0.050 2.53% Impervious Area T.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40"		\mathbf{G}										
0.082 70 Existing Woods, Good, HSG C 0.000 77 Existing Woods, Good, HSG C 0.000 70 Proposed Woods, Good, HSG C 0.000 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG D 0.046 98 Untreated proposed impervious, HSG C 0.004 98 Untreated proposed impervious, HSG D 0.995 71 Proposed developed meadow, non-grazed, HSG D 0.000 78 Proposed developed meadow, non-grazed, HSG D 0.000 78 Proposed developed meadow to be treated, HSG D 0.846 71 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG D 0.000 78 Proposed meadow, ski lift, HSG D 1.973 72 Weighted Average 1.923 97.47% Pervious Area 0.050 2.53% Impervious Area T.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" 5hallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, For		0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
0.000		0.			ting Wood	s, Good, H	SG A					
0.000												
0.000 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.004 98 Untreated proposed impervious, HSG C 0.004 98 Untreated proposed impervious, HSG D 0.995 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow, non-grazed, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 78 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski lift, HSG D 0.000 71 Proposed meadow, ski lift, HSG D 0.000 78 Proposed meadow, ski lift, HSG D 1.973 72 Weighted Average 1.923 97.47% Pervious Area 0.050 2.53% Impervious Area Tc Length (fit/ft) (fit/sec) (cfs) Description (min) (feet) Slope Velocity Capacity (ft/ft) (fit/sec) (cfs) Description 1.6 304 0.2000 3.13 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" 4.3 307 0.2300												
0.000 98												
0.000 98												
0.046 98												
0.004 98 Untreated proposed impervious, HSG D 0.995 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 78 Proposed developed meadow to be treated, HSG D 0.846 71 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG D 0.000 71 Proposed meadow, ski lift, HSG C 0.000 78 Proposed meadow, ski lift, HSG D 1.973 72 Weighted Average 1.923 97.47% Pervious Area 0.050 2.53% Impervious Area Tc Length (ft/ft) (ft/sec) (cfs) 7.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" 1.6 304 0.2000 3.13 Shallow Concentrated Flow, Shallow Concentrated Flow, Forest W/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch												
0.995 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow, non-grazed, HSG D 0.000 71 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski lift, HSG D 0.000 71 Proposed meadow, ski lift, HSG D 1.973 72 Weighted Average 1.923 97.47% Pervious Area 0.050 2.53% Impervious Area Tc Length (min) (feet) (ft/ft) (ft/sec) (cfs) Slope Velocity Capacity (cfs) Description 7.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" 1.6 304 0.2000 3.13 Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0'/' Top.W=4.00' n= 0.069 Riprap, 6-inch												
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Tc Length												
Tc Length (feet) Slope Velocity (cfs) Description 7.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Short Grass Pasture Kv= 2.5 fps 7.2 100 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch												
(min) (feet) (ft/ft) (ft/sec) (cfs) 7.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" 1.6 304 0.2000 3.13 Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch		0.	050	2.53	% Impervi	ous Area						
(min) (feet) (ft/ft) (ft/sec) (cfs) 7.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" 1.6 304 0.2000 3.13 Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch		_		٥.								
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Grass: Dense n= 0.240 P2= 2.40" 1.6 304 0.2000 3.13 Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch	_					(cfs)						
1.6 304 0.2000 3.13 Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch		7.2	100	0.1600	0.23		•					
Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch												
4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch		1.6	304	0.2000	3.13							
Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch		, -					· ·					
0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch		4.3	307	0.2300	1.20		· · · · · · · · · · · · · · · · · · ·					
Bot.W=2.00' D=1.00' Z= 1.0 '/ Top.W=4.00' n= 0.069 Riprap, 6-inch												
n= 0.069 Riprap, 6-inch		0.7	90	0.0200	2.22	6.65						
							n= 0.069 Riprap, 6-inch					

Summary for Subcatchment 58S: WS 12C

Runoff = 5.43 cfs @ 12.09 hrs, Volume= 0.364 af, Depth= 1.42"

Area	(ac) (CN Des	cription						
0.	.000	98 Unt	reated exis	ting imperv	rious, HSG A				
0.	.000				rious, HSG C				
0.	.000	98 Unt	reated exis	ting imperv	rious, HSG D				
0.000 98 Existing impervious to be treated as offset, HSG D									
0.000 30 Existing impervious to be treated as offset, FIGO D									
0.	.000	71 Exis	sting mead	ow, non-gra	azed, HSG C				
0.	.000	78 Exis	sting mead	ow, non-gra	azed, HSG D				
0.	.000	30 Exis	sting Wood	s, Good, H	SG A				
0.	.595	70 Exis	sting Wood	s, Good, H	SG C				
0.	.000	77 Exis	sting Wood	s, Good, H	SG D				
0.	.366	70 Pro	posed Woo	ods, Good,	HSG C				
				ods, Good,					
					oe treated, HSG C				
0.					oe treated, HSG D				
					rvious, HSG C				
					rvious, HSG D				
					adow, non-grazed, HSG C				
					adow, non-grazed, HSG D				
					adow to be treated, HSG C				
					adow to be treated, HSG D				
0.000 71 Proposed meadow, ski trail, HSG C									
				dow, ski tra					
				dow, ski lif					
				dow, ski lif	t, HSG D				
			ghted Ave						
	.253		39% Pervio						
0.	.817	26.6	31% Imper	vious Area					
т.	1 41-	Ola na	\/-l: /	0	Description				
Tc	Length		Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	01 (F)				
10.8	50	0.1600	0.08		Sheet Flow,				
0.4	405	0.4000	4.00		Woods: Dense underbrush n= 0.800 P2= 2.40"				
3.1	185	0.1600	1.00		Shallow Concentrated Flow,				
0.4	0.57	0.0000	40.04	44.00	Forest w/Heavy Litter Kv= 2.5 fps				
0.4	257	0.2000	10.34	41.36	Trap/Vee/Rect Channel Flow,				
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'				
4 4	400	0.0500	4.05		n= 0.050 Mountain streams w/large boulders				
1.4	103	0.2500	1.25		Shallow Concentrated Flow,				
45.7		T.4.1			Forest w/Heavy Litter Kv= 2.5 fps				
15.7	595	Total							

Summary for Subcatchment 59S: WS 12D

Runoff = 4.06 cfs @ 12.05 hrs, Volume= 0.247 af, Depth= 1.63"

	Area	(ac) (CN Des	cription						
_					tina imperv	rious, HSG A				
						rious, HSG C				
						rious, HSG D				
0.000 98 Existing impervious to be treated as offset, HSG D										
0.000 30 Existing meadow, non-grazed, HSG A										
	0.	000	71 Exis	sting mead	ow, non-gra	azed, HSG C				
	0.	000	78 Exis	sting mead	ow, non-gra	azed, HSG D				
			30 Exis	sting Wood	s, Good, H	SG A				
					s, Good, H					
	0.	208	77 Exis	sting Wood	s, Good, H	SG D				
					ds, Good,					
					ds, Good,					
						e treated, HSG C				
						pe treated, HSG D				
						rvious, HSG C				
				rvious, HSG D						
0.000 71 Proposed developed meadow, non-grazed, HSG C										
0.000 78 Proposed developed meadow, non-grazed, HSG D										
						adow to be treated, HSG C				
						adow to be treated, HSG D				
					dow, ski tra					
					dow, ski tra					
					dow, ski lif					
_					dow, ski lif	t, HSG D				
				ighted Ave	•					
		337		34% Pervio						
	0.	486	26.6	66% Imper	vious Area					
	To	Longth	Clana	Valacity	Canacity	Description				
	Tc (min)	Length (feet)		Velocity (ft/sec)	Capacity (cfs)	Description				
-					(CIS)	Chast Flow				
	10.9	49	0.1500	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.40"				
	1.4	83	0.1500	0.97						
	1.4	03	0.1500	0.97		Shallow Concentrated Flow,				
	0.8	184	0.2700	3.64		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,				
	0.0	104	0.2700	3.04		Short Grass Pasture Kv= 7.0 fps				
-	13.1	316	Total			Short Grado i adtato Trv- 1.0 ipa				
	10.1	010	i Olai							

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Summary for Subcatchment 60S: WS 12E

Runoff = 2.44 cfs @ 12.06 hrs, Volume= 0.152 af, Depth= 1.77"

Area	(ac)	CN	Desc	ription		
0.	.000	98	Untre	eated exis	ting imperv	ious, HSG A
0.	.000	98	Untre	eated exis	ting imperv	ious, HSG C
0.	.000	98	Untre	eated exis	ting imperv	ious, HSG D
0.	.000	98	Exist	ing imperv	vious to be	treated as offset, HSG D
0.	.000	30	Exist	ing meado	ow, non-gra	azed, HSG A
0.	.000	71	Exist	ing meado	ow, non-gra	azed, HSG C
0.	.000	78	Exist	ing meado	ow, non-gra	azed, HSG D
0.	.000	30	Exist	ing Wood	s, Good, H	SG A
0.	.000	70	Exist	ing Wood	s, Good, H	SG C
0.	.061	77	Exist	ing Wood	s, Good, H	SG D
0.	.000	70	Prop	osed Woo	ds, Good, l	HSG C
0.	.000	77	Prop	osed Woo	ds, Good, l	HSG D
	.000	98				e treated, HSG C
	.000	98				e treated, HSG D
	.000	98				rvious, HSG C
	.300	98				rvious, HSG D
	.053	71				dow, non-grazed, HSG C
	.617	78				dow, non-grazed, HSG D
	.000	71				dow to be treated, HSG C
	.000	78				dow to be treated, HSG D
	.000	71			dow, ski tra	
	.000	78			dow, ski tra	
	.000	71			dow, ski lift	
	.000	78			dow, ski lift	; HSG D
	.031	83		hted Aver		
	.731			0% Pervio		
0.	.300		29.10)% Imper	/ious Area	
Tc	Length		lope	Velocity	Capacity	Description
(min)	(feet		ft/ft)	(ft/sec)	(cfs)	
10.8	61	1 0.2	2400	0.09		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
1.1	8′	1 0.2	2400	1.22		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
1.2	101	1 0.3	3200	1.41		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
8.0	165	5 0.2	2400	3.43		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
13.9	408	B Tot	tal			

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Summary for Subcatchment 61S: WS 12F

Runoff = 6.07 cfs @ 12.04 hrs, Volume= 0.356 af, Depth= 1.49"

Area	(ac) C	N Des	cription							
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A					
0.	.000				rious, HSG C					
0.	.000	98 Untr	eated exis	rious, HSG D						
0.	treated as offset, HSG D									
0.	0.000 98 Existing impervious to be treated as offset, HSG D 0.000 30 Existing meadow, non-grazed, HSG A									
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C					
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
0.	.000	30 Exis	ting Wood	s, Good, H	SG A					
0.	.000	70 Exis	ting Wood	s, Good, H	SG C					
1.	.236	77 Exis	ting Wood	s, Good, H	SG D					
0.	.064			ds, Good,						
				ds, Good,						
0.			osed impe	ervious to b	oe treated, HSG C					
0.					oe treated, HSG D					
					rvious, HSG C					
					rvious, HSG D					
0.000 71 Proposed developed meadow, non-grazed, HSG C										
0.770 78 Proposed developed meadow, non-grazed, HSG D										
0.000 71 Proposed developed meadow to be treated, HSG C										
0.000 78 Proposed developed meadow to be treated, HSG D 0.216 71 Proposed meadow, ski trail, HSG C										
		ail, HSG C								
				dow, ski tra						
				dow, ski lif						
				dow, ski lif	t, HSG D					
			ghted Avei							
	.548		8% Pervio							
0.	.322	11.2	2% Imper	vious Area						
_		01			B					
Tc	Length		Velocity	Capacity	Description					
<u>(min)</u>	(feet)	. ,	(ft/sec)	(cfs)						
7.4	100	0.1500	0.23		Sheet Flow,					
			–		Grass: Dense n= 0.240 P2= 2.40"					
2.7	185	0.2100	1.15		Shallow Concentrated Flow,					
2.4	0.5-		40.04	44.00	Forest w/Heavy Litter Kv= 2.5 fps					
0.4	257	0.2000	10.34	41.36	Trap/Vee/Rect Channel Flow,					
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'					
4 4	400	0.0500	4.05		n= 0.050 Mountain streams w/large boulders					
1.4	103	0.2500	1.25		Shallow Concentrated Flow,					
44.0	0.45	T.4.1			Forest w/Heavy Litter Kv= 2.5 fps					
11.9	645	Total								

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Summary for Subcatchment 62S: WS 12G

Runoff = 7.98 cfs @ 12.16 hrs, Volume= 0.654 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 10-Year Rainfall=3.40"

Ar	ea (a	ac) C	N Desc	cription							
	0.0	00 9	98 Untr	eated exis	ting imperv	ious, HSG A					
	0.0	00 9	98 Untr	eated exis	ting imperv	ious, HSG C					
	0.0	00 9	98 Untr	eated exis	ting imperv	ious, HSG D					
	0.000 98 Existing impervious to be treated as offset, HSG D										
	0.0			ting meado	ow, non-gra	azed, HSG A					
	0.0			ting meado	ow, non-gra	azed, HSG C					
	0.0			ting meado	ow, non-gra	azed, HSG D					
	0.0			ting Wood:	s, Good, H	SG A					
	0.0			ting Wood	s, Good, H	SG C					
	1.43			ting Wood:	s, Good, H	SG D					
	0.6				ds, Good, l						
	0.34	40 7	77 Prop	osed Woo	ds, Good, l	HSG D					
	0.0	00 9	98 Prop	osed impe	ervious to b	e treated, HSG C					
	0.0					e treated, HSG D					
	0.0					rvious, HSG C					
	0.5					rvious, HSG D					
0.002 71 Proposed developed meadow, non-grazed, HSG C											
	1.14					dow, non-grazed, HSG D					
	0.0				•	dow to be treated, HSG C					
0.000 78 Proposed developed meadow to be treated, HSG D											
	0.9				dow, ski tra						
	0.6				dow, ski tra						
	0.0				dow, ski lift						
	0.0				dow, ski lift	I, HSG D					
	5.78	-		ghted Aver							
	5.2			7% Pervio							
	0.50	05	8.73	% Impervi	ous Area						
			0.1			D 1.0					
		Length	Slope	Velocity	Capacity	Description					
(mi		(feet)	(ft/ft)	(ft/sec)	(cfs)						
10	.7	142	0.1200	0.22		Sheet Flow,					
						Grass: Dense n= 0.240 P2= 2.40"					
1	.9	277	0.1200	2.42		Shallow Concentrated Flow,					
=						Short Grass Pasture Kv= 7.0 fps					
8	.9	569	0.1800	1.06		Shallow Concentrated Flow,					
_	•		0.0000		40.00	Forest w/Heavy Litter Kv= 2.5 fps					
C	.8	222	0.0800	4.74	18.96	Trap/Vee/Rect Channel Flow,					
						Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'					
			T.4.1			n= 0.069 Riprap, 6-inch					

22.3 1,210 Total

Summary for Subcatchment 63S: WS 13

Runoff = 0.83 cfs @ 12.04 hrs, Volume= 0.048 af, Depth= 1.70"

Area	(ac) (CN Des	cription		
0.	000	98 Unt	reated exis	ting imperv	rious, HSG A
0.	000	98 Unt	reated exis	ting imperv	rious, HSG C
0.	074	98 Unt	reated exis	ting imperv	vious, HSG D
0.			sting imper	vious to be	treated as offset, HSG D
0.	000	30 Exis	sting mead	ow, non-gra	azed, HSG A
					azed, HSG C
					azed, HSG D
			sting Wood		
			sting Wood		
			sting Wood		
			posed Woo		
			posed Woo		
					pe treated, HSG C
					pe treated, HSG D
					rvious, HSG C
					rvious, HSG D
					adow, non-grazed, HSG C
					adow, non-grazed, HSG D
					adow to be treated, HSG C
					adow to be treated, HSG D
			posed mea		
			posed mea		
			posed mea		
			posed mea		t, HSG D
			ghted Aver		
	264	_	11% Pervio		
0.	074	21.8	39% Imper	/ious Area	
Тс	Length	Slope	Velocity	Capacity	Description
(min)	(feet)		(ft/sec)	(cfs)	Becompact
9.6	36	0.1100	0.06		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
1.9	254	0.0200	2.22	6.65	Trap/Vee/Rect Channel Flow, ditch
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.069
11.5	290	Total			

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Summary for Subcatchment 64S: WS 13A

Runoff = 5.13 cfs @ 12.08 hrs, Volume= 0.338 af, Depth= 1.42"

	Area	(ac)	CN	Desc	cription						
	0.	000	98	Untre	eated exis	ting imperv	ious, HSG A				
	0.	000	98	Untre	eated exis	ting imperv	ious, HSG C				
	0.	000	98	ious, HSG D							
	0.000 98 Existing impervious to be treated as offset, HSG D										
	0.	000	30	Exist	ing meado	w, non-gra	azed, HSG A				
	0.	000	71	Exist	ing meado	ow, non-gra	azed, HSG C				
	0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D				
	0.	000	30	Exist	ing Wood	s, Good, H	SG A				
	0.	000	70	Exist	ing Wood	s, Good, H	SG C				
		353	77			s, Good, H					
		000	70			ds, Good, l					
		301	77			ds, Good, l					
		000	98				e treated, HSG C				
		000	98				e treated, HSG D				
		000	98 98			•	rvious, HSG C				
	0.	rvious, HSG D									
		000	71				dow, non-grazed, HSG C				
		000	78				dow, non-grazed, HSG D				
		000	71				dow to be treated, HSG C				
		695	78				dow to be treated, HSG D				
		000	71			dow, ski tra					
		500	78			dow, ski tra					
		000	71			dow, ski lift					
		000	78			dow, ski lift	t, HSG D				
		849	78		hted Aver						
	2.	849		100.0	00% Pervi	ous Area					
	_					_					
	Tc	Lengt		Slope	Velocity	Capacity	Description				
	(min)	(fee		(ft/ft)	(ft/sec)	(cfs)					
	9.0	10	0 0	0.0900	0.18		Sheet Flow,				
							Grass: Dense n= 0.240 P2= 2.40"				
	1.4	21	1 (0.1300	2.52		Shallow Concentrated Flow,				
							Short Grass Pasture Kv= 7.0 fps				
	4.7	30	1 ().1800	1.06		Shallow Concentrated Flow,				
_							Forest w/Heavy Litter Kv= 2.5 fps				
	15.1	61	2 1	Γotal							

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Summary for Subcatchment 65S: WS 13B

Runoff 5.30 cfs @ 11.91 hrs, Volume= 0.226 af, Depth= 1.77"

Area	(ac) C	N Des	cription						
0	.000	98 Untr	eated exis	ting imperv	rious, HSG A				
0	.000				rious, HSG C				
0	.000	98 Untr	eated exis	ting imperv	rious, HSG D				
0	.000	98 Exis	ting imper	vious to be	treated as offset, HSG D				
0	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A				
0	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C				
0	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D				
0	.000	30 Exis	ting Wood	s, Good, H	SG A				
0	.086			s, Good, H					
0	.116	77 Exis	ting Wood	s, Good, H	SG D				
0	.000	70 Prop	osed Woo	ds, Good,	HSG C				
0	.000	77 Prop	osed Woo	ds, Good,	HSG D				
0	.379				e treated, HSG C				
					e treated, HSG D				
					rvious, HSG C				
					rvious, HSG D				
					idow, non-grazed, HSG C				
					idow, non-grazed, HSG D				
	0.383 71 Proposed developed meadow to be treated, HSG C								
					dow to be treated, HSG D				
	0.000 71 Proposed meadow, ski trail, HSG C								
				dow, ski tra					
				dow, ski lift					
				dow, ski lift	t, HSG D				
			ghted Aver						
	.001		4% Pervio						
0	.524	34.3	6% Imper	vious Area					
-	1	01	17.1	0: 1	December				
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
0.8	100	0.0700	1.97		Sheet Flow,				
0.4	0.5	0.0700	5.07		Smooth surfaces n= 0.011 P2= 2.40"				
0.1	25	0.0700	5.37		Shallow Concentrated Flow,				
0.4	00	0.4000	00.00	00.40	Paved Kv= 20.3 fps				
0.1	88	0.1600	28.80	90.49	Pipe Channel,				
					24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'				
0.0	440	0.0000	7.04	04.04	n= 0.013 Corrugated PE, smooth interior				
0.3	118	0.2000	7.01	21.04	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
	001	Takal			n= 0.069 Riprap, 6-inch				
1.3	331	Total							

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Summary for Subcatchment 66S: WS 13C

Runoff = 6.36 cfs @ 12.01 hrs, Volume= 0.335 af, Depth= 1.63"

Area	(ac) C	N Des	cription								
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A						
0.	.000				rious, HSG C						
0.	0.000 98 Untreated existing impervious, HSG D										
0.	0.000 98 Existing impervious to be treated as offset, HSG D										
0.	0.000 30 Existing meadow, non-grazed, HSG A										
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
			ting Wood	s, Good, H	SG A						
				s, Good, H							
				s, Good, H							
				ds, Good,							
				ds, Good,							
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
	0.000 71 Proposed developed meadow, non-grazed, HSG C										
	0.000 78 Proposed developed meadow, non-grazed, HSG D										
	1.569 71 Proposed developed meadow to be treated, HSG C										
	0.000 78 Proposed developed meadow to be treated, HSG D										
	0.000 71 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG D										
				dow, ski lif							
				dow, ski lif	I, H5G D						
			ghted Aver								
	.569		55% Pervio								
U.	.900	30.4	5% imper	vious Area							
Тс	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Description						
7.8	100		0.21	(013)	Sheet Flow,						
1.0	100	0.1300	0.21		Grass: Dense n= 0.240 P2= 2.40"						
0.3	42	0.1300	2.52		Shallow Concentrated Flow,						
0.3	42	0.1300	2.52		Short Grass Pasture Kv= 7.0 fps						
0.4	170	0.1800	6.65	19.96	Trap/Vee/Rect Channel Flow,						
0.4	170	0.1000	0.00	19.30	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
0.4	97	0.3100	3.90		Shallow Concentrated Flow,						
0.4	01	3.0100	0.00		Short Grass Pasture Kv= 7.0 fps						
8.9	409	Total			2.13.1 2.400 1 401410 110 110 110						
0.0	-100	· Otal									

Summary for Subcatchment 67S: WS 14

Runoff = 2.17 cfs @ 12.09 hrs, Volume= 0.147 af, Depth= 1.42"

Area	(ac) C	N Des	cription								
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A						
0.	.000				rious, HSG C						
0.041 98 Untreated existing impervious, HSG D											
0.	0.000 98 Existing impervious to be treated as offset, HSG D										
0.	0.000 30 Existing meadow, non-grazed, HSG A										
0.000 71 Existing meadow, non-grazed, HSG C											
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0.000 30 Existing Woods, Good, HSG A											
0.000 70 Existing Woods, Good, HSG C											
0.	.657	77 Exis	ting Wood	s, Good, H	SG D						
0.	.000	70 Prop	osed Woo	ds, Good,	HSG C						
0.	.170	77 Prop	osed Woo	ds, Good,	HSG D						
0.	.000	98 Prop	osed impe	ervious to b	e treated, HSG C						
			osed impe	ervious to b	e treated, HSG D						
				•	rvious, HSG C						
					rvious, HSG D						
0.002 71 Proposed developed meadow, non-grazed, HSG C											
0.000 78 Proposed developed meadow, non-grazed, HSG D											
	0.000 71 Proposed developed meadow to be treated, HSG C										
	0.192 78 Proposed developed meadow to be treated, HSG D										
0.080 71 Proposed meadow, ski trail, HSG C											
0.096 78 Proposed meadow, ski trail, HSG D											
0.000 71 Proposed meadow, ski lift, HSG C 0.000 78 Proposed meadow, ski lift, HSG D											
					I, H5G D						
			ghted Aver								
	.197		9% Pervio								
U.	.041	3.31	% Impervi	ous Area							
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	•						
7.6	81	0.0900	0.18	, ,	Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
0.6	28	0.0900	0.75		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
0.4	44	0.5000	1.77		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
3.1	192	0.1700	1.03		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
4.0	209	0.1200	0.87		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
0.3	70	0.0400	4.33	12.98	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.050						

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16.0 624 Total

Summary for Subcatchment 68S: WS 15

Runoff = 2.23 cfs @ 12.06 hrs, Volume= 0.141 af, Depth= 1.29"

Type II 24-hr 10-Year Rainfall=3.40" Printed 9/24/2021

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
_	10.0	100	0.0700	0.17	,	Sheet Flow,
			0.0.00	• • • • • • • • • • • • • • • • • • • •		Grass: Dense n= 0.240 P2= 2.40"
	0.6	69	0.0700	1.85		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	0.1	44	0.5000	4.95		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	0.2	170	0.1500	12.39	148.70	Trap/Vee/Rect Channel Flow,
						Bot.W=6.50' D=1.50' Z= 1.0 '/' Top.W=9.50'
						n= 0.050
	1.3	99	0.2400	1.22		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	1.3	99	0.2400	1.22		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.2	43	0.0900	4.70	14.11	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_						n= 0.069
	13.7	624	Total			

Summary for Subcatchment 69S: WS 15A

Runoff = 3.84 cfs @ 11.94 hrs, Volume= 0.166 af, Depth= 1.11"

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Area	(ac)	CN	Desc	ription							
0.	.000	98	Untre	eated exis	ting imperv	ious, HSG A					
0.	.000	98	Untre	Untreated existing impervious, HSG C							
0.	.000	98	Untre	eated exis	ting imperv	ious, HSG D					
0.	.000	98	Exist	ing imper	vious to be	treated as offset, HSG D					
0.	.000	30	Exist	ing meado	ow, non-gra	azed, HSG A					
0.	.000	71	Exist	ing meado	ow, non-gra	azed, HSG C					
0.	.000	78	Exist	ing meado	ow, non-gra	azed, HSG D					
	.000	30		ing Wood	s, Good, H	SG A					
1.	.051	70	Exist	ing Wood	s, Good, H	SG C					
0.	.000	77	Exist	ing Wood	s, Good, H	SG D					
0.	.000	70	Prop	osed Woo	ds, Good, I	HSG C					
	.000	77			ds, Good, I						
0.	.047	98	Prop	osed impe	ervious to b	e treated, HSG C					
	.000	98				e treated, HSG D					
	.092	98				rvious, HSG C					
	.000	98				rvious, HSG D					
	.595	71				dow, non-grazed, HSG C					
	.000	78				dow, non-grazed, HSG D					
	.000	71				dow to be treated, HSG C					
	.000	78				dow to be treated, HSG D					
	.000	71			dow, ski tra						
	.000	78			dow, ski tra						
	.000	71			dow, ski lift						
	.000	78	•	<u>osed mea</u>	dow, ski lift	t, HSG D					
	.785	73	_	jhted Aver							
1.	.646		92.2	1% Pervio	us Area						
0.	.139		7.79	% Impervi	ous Area						
Tc	Lengt		Slope	Velocity	Capacity	Description					
<u>(min)</u>	(fee		(ft/ft)	(ft/sec)	(cfs)						
0.6	7	2 (0.0800	1.94		Sheet Flow,					
						Smooth surfaces n= 0.011 P2= 2.40"					
2.3	15	55 (0.2100	1.15		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
0.2	14	.9 (0.1200	11.08	133.00	Trap/Vee/Rect Channel Flow,					
						Bot.W=6.50' D=1.50' Z= 1.0 '/' Top.W=9.50'					
						n= 0.050 Mountain streams w/large boulders					
3.1	37	6	Γotal								

Summary for Subcatchment 70S: WS 15B

Runoff = 4.58 cfs @ 12.07 hrs, Volume= 0.301 af, Depth= 1.11"

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Area	(ac) (CN De	escription								
0.	000	98 Ur	treated exis	ting imperv	rious, HSG A						
0.	000	98 Ur	Jntreated existing impervious, HSG C								
0.	000	98 Ur	Intreated existing impervious, HSG D								
0.	000										
0.	000	30 Ex	isting mead	ow, non-gra	azed, HSG A						
0.	000	71 Ex	isting mead	ow, non-gra	azed, HSG C						
0.	000	78 Ex	isting mead	ow, non-gra	azed, HSG D						
0.	000	30 Ex	isting Wood	s, Good, H	SG A						
0.	688	70 Ex	isting Wood	s, Good, H	SG C						
0.	000	77 Ex	isting Wood	s, Good, H	SG D						
0.	075	70 Pr	oposed Woo	ods, Good,	HSG C						
0.	000	77 Pr	oposed Woo	ods, Good,	HSG D						
0.	000	98 Pr	oposed impe	ervious to b	e treated, HSG C						
0.	000	98 Pr	oposed impe	ervious to b	e treated, HSG D						
0.	321	98 Ur	itreated prop	osed impe	rvious, HSG C						
0.	000	98 Ur	itreated prop	osed impe	rvious, HSG D						
1.	519	71 Pr	oposed deve	eloped mea	ndow, non-grazed, HSG C						
	000				ndow, non-grazed, HSG D						
	000				ndow to be treated, HSG C						
	000				ndow to be treated, HSG D						
	647		oposed mea								
	000		oposed mea								
	000		oposed mea								
0.	000	78 Pr	oposed mea	idow, ski lif	t, HSG D						
3.	250	73 W	eighted Ave	rage							
2.	929	90	.12% Pervio	us Area							
0.	321	9.8	38% Impervi	ous Area							
Tc	Length			Capacity	Description						
(min)	(feet)	(ft/f	(ft/sec)	(cfs)							
7.0	100	0.170	0 0.24		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
7.0	502	0.230	0 1.20		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
0.3	87	0.070	0 4.15	12.45	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
14.3	689	Total									

Summary for Subcatchment 71S: WS 15C

Runoff = 1.00 cfs @ 12.29 hrs, Volume= 0.105 af, Depth= 1.42"

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 Area	(ac) (ON De	escription									
0.	000	98 Ur	Jntreated existing impervious, HSG A									
0.	000	98 Ur	Jntreated existing impervious, HSG C									
0.	000	98 Ur	Jntreated existing impervious, HSG D									
0.	000	98 Ex										
0.	000	30 Ex	isting mead	ow, non-gra	azed, HSG A							
			isting mead	ow, non-gra	azed, HSG C							
			isting mead	ow, non-gra	azed, HSG D							
			isting Wood									
			isting Wood									
			isting Wood									
			oposed Wo									
			oposed Wo	ods, Good,	HSG D							
					pe treated, HSG C							
					pe treated, HSG D							
					ervious, HSG C							
					ervious, HSG D							
					adow, non-grazed, HSG C							
					adow, non-grazed, HSG D							
					adow to be treated, HSG C							
					adow to be treated, HSG D							
			oposed mea									
			oposed mea									
			oposed mea									
			oposed mea		t, HSG D							
			eighted Ave									
	664		.20% Pervio									
0.	219	24	.80% Imper	vious Area								
_		01		0: 1	December 6							
Tc	Length			Capacity	Description							
 (min)	(feet)		 	(cfs)								
31.0	66	0.020	0.04		Sheet Flow,							
0.4		0.440			n= 0.800 P2= 2.40"							
0.1	41	0.440	0 4.64		Shallow Concentrated Flow,							
0.0	400	0.470	0 00		Short Grass Pasture Kv= 7.0 fps							
0.6	108	0.170	0 2.89		Shallow Concentrated Flow,							
0.7	4.44	0.040	0 001		Short Grass Pasture Kv= 7.0 fps							
0.7	141	0.210	0 3.21		Shallow Concentrated Flow,							
 00.1					Short Grass Pasture Kv= 7.0 fps							
32.4	356	Total										

Summary for Subcatchment 72S: WS 15D

Runoff = 0.87 cfs @ 11.98 hrs, Volume= 0.042 af, Depth= 1.11"

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Area	(ac)	CN I	Des	cription					
0.	000	98	Untr	eated exist	ting imperv	rious, HSG A			
0.	000	98 Untreated existing impervious, HSG C							
0.	0.000 98 Untreated existing impervious, HSG D								
0.	000	98	Exis	ting imper\	vious to be	treated as offset, HSG D			
0.	000	30	Exis	ting meado	w, non-gra	azed, HSG A			
	000		Exis	ting meado	w, non-gra	azed, HSG C			
	000		Exis	ting meado	w, non-gra	azed, HSG D			
0.	000		Exis	ting Woods	s, Good, H	SG A			
0.	000	70	Exis	ting Woods	s, Good, H	SG C			
0.	000	77	Exis	ting Woods	s, Good, H	SG D			
0.	038	70	Prop	osed Woo	ds, Good, I	HSG C			
0.	000	77	Prop	osed Woo	ds, Good, I	HSG D			
0.	000	98	Prop	osed impe	rvious to b	e treated, HSG C			
	000					e treated, HSG D			
	042					rvious, HSG C			
	000					rvious, HSG D			
	372					idow, non-grazed, HSG C			
	002					idow, non-grazed, HSG D			
	000					dow to be treated, HSG C			
	000					dow to be treated, HSG D			
	000				dow, ski tra				
	000				dow, ski tra				
	000				dow, ski lift				
0.	000	78	Prop	osed mea	dow, ski lift	t, HSG D			
0.	454			ghted Aver					
	412	,	90.7	5% Pervio	us Area				
0.	042	,	9.25	% Impervi	ous Area				
Тс	Longth	s el	200	Velocity	Capacity	Description			
(min)	Length (feet		ope t/ft)	(ft/sec)	Capacity (cfs)	Description			
6.0	43			0.12	(3.5)	Sheet Flow,			
						n= 0.800 P2= 2.40"			
0.2	68	3 0.5°	100	5.00		Shallow Concentrated Flow,			
						Short Grass Pasture Kv= 7.0 fps			
6.2	111	l Tota	al						

Summary for Subcatchment 73S: WS 15E

Runoff = 2.41 cfs @ 11.97 hrs, Volume= 0.117 af, Depth= 1.77"

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Area	(ac) C	N Des	cription								
		98 Untr	Jntreated existing impervious, HSG A								
					rious, HSG C						
0.	.000	98 Untr	Intreated existing impervious, HSG D								
0.	.000	98 Exis	existing impervious to be treated as offset, HSG D								
0.	.000 3	30 Exis	ting meado	ow, non-gra	azed, HSG A						
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0.	.000	30 Exis	ting Wood	s, Good, H	SG A						
0.	.000	70 Exis	ting Wood	s, Good, H	SG C						
			ting Wood	s, Good, H	SG D						
			osed Woo	ds, Good,	HSG C						
				ds, Good,							
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					idow, non-grazed, HSG C						
					dow, non-grazed, HSG D						
				•	dow to be treated, HSG C						
					idow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lift							
				dow, ski lift	I, HSG D						
		•	ghted Aver	•							
	.566		8% Pervio								
U.	.228	28.7	2% imperv	vious Area							
Тс	Longth	Slope	Volocity	Canacity	Description						
(min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description						
				(015)	Chaot Flour						
4.0	21	0.3300	0.09		Sheet Flow, n= 0.800 P2= 2.40"						
1.0	206	0.000	4.70	1111							
1.0	286	0.0900	4.70	14.11	Trap/Vee/Rect Channel Flow, roadway ditch Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					• • • • • • • • • • • • • • • • • • •						
8.0	162	0.0500	3.51	10.52	n= 0.069 Riprap, 6-inch Trap/Vee/Rect Channel Flow, roadway ditch						
0.0	102	0.0500	3.31	10.52	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
0.3	68	0.0600	3.84	11.52	Trap/Vee/Rect Channel Flow, roadway ditch						
0.5	00	0.0000	5.04	11.02	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
6.1	537	Total			11 0.000 Hiprop, 0 mon						
0.1	557	i Ulai									

Summary for Subcatchment 74S: WS 15F

Runoff = 7.77 cfs @ 12.01 hrs, Volume= 0.414 af, Depth= 1.63"

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Area	(ac)	CN De	scription								
0.	000	98 Un	treated exis	ting imperv	rious, HSG A						
0.	000	98 Un	Intreated existing impervious, HSG C								
0.	000	98 Un	Jntreated existing impervious, HSG D								
0.	0.000 98 Existing impervious to be treated as offset, HSG D										
0.	000	30 Ex	isting mead	ow, non-gra	azed, HSG A						
0.	000	71 Ex	isting mead	ow, non-gra	azed, HSG C						
0.	000	78 Ex	isting mead	ow, non-gra	azed, HSG D						
0.	000	30 Ex	isting Wood	ls, Good, H	SG A						
0.	000	70 Ex	isting Wood	ls, Good, H	SG C						
0.	227	77 Ex	isting Wood	ls, Good, H	SG D						
0.	000		oposed Woo								
0.	418	77 Pro	posed Woo	ods, Good,	HSG D						
0.	000	98 Pro	posed impe	ervious to b	e treated, HSG C						
0.	000	98 Pro	posed impe	ervious to b	e treated, HSG D						
0.	001	98 Un	treated prop	oosed impe	rvious, HSG C						
0.	508				rvious, HSG D						
0.	014	71 Pro	oposed deve	eloped mea	idow, non-grazed, HSG C						
1.	020	78 Pro	posed deve	eloped mea	idow, non-grazed, HSG D						
0.	000	71 Pro	oposed deve	eloped mea	dow to be treated, HSG C						
0.	000		oposed deve	eloped mea	dow to be treated, HSG D						
	011		oposed mea	adow, ski tra	ail, HSG C						
	852		oposed mea	adow, ski tra	ail, HSG D						
0.	000		oposed mea								
0.	000	78 Pro	oposed mea	adow, ski lift	t, HSG D						
3.	051	81 We	eighted Ave	rage							
2.	542	83	.32% Pervic	ous Area							
0.	509	16	.68% Imper	vious Area							
Tc	Length	Slope	e Velocity	Capacity	Description						
(min)	(feet)	(ft/ft) (ft/sec)	(cfs)							
7.6	100	0.1400	0.22		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
0.5	83	0.1400	2.62		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
1.1	401	0.1400	5.87	17.60	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
9.2	584	Total									

Summary for Subcatchment 75S: WS 15G

Runoff = 6.65 cfs @ 12.05 hrs, Volume= 0.399 af, Depth= 1.42"

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Area	(ac)	CN Des	scription								
0.	000	98 Unt	reated exis	ting imperv	rious, HSG A						
0.	000	98 Unt	Untreated existing impervious, HSG C								
0.	000	98 Unt	Untreated existing impervious, HSG D								
0.	000	98 Exi	sting imper	vious to be	treated as offset, HSG D						
	000		sting mead	ow, non-gra	azed, HSG A						
	000				azed, HSG C						
	000				azed, HSG D						
	000			s, Good, H							
	422			s, Good, H							
	000			s, Good, H							
	485		•	ods, Good,							
	098			ods, Good,							
	000				pe treated, HSG C						
	000				pe treated, HSG D						
	784				rvious, HSG C						
	042				rvious, HSG D						
	239				adow, non-grazed, HSG C						
	296		•		adow, non-grazed, HSG D						
	000 000				adow to be treated, HSG C						
	000			eloped mea idow, ski tra	adow to be treated, HSG D						
	000			idow, ski tra idow, ski tra							
	000			idow, ski lift idow, ski lift							
	000			idow, ski lift idow, ski lift							
	366		ighted Ave		i, 1100 D						
	540	-	46% Pervic								
	826		54% Imper								
0.	020	24.	04 /0 IIIIper	vious Aica							
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	•		(cfs)	Boodipaon						
10.7	54			, ,	Sheet Flow,						
					Woods: Dense underbrush n= 0.800 P2= 2.40"						
0.3	21	0.1900	1.09		Shallow Concentrated Flow,						
		- , -			Forest w/Heavy Litter Kv= 2.5 fps						
1.5	544	0.1400	5.87	17.60	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/ Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
12.5	619	Total									

Summary for Subcatchment 76S: WS 15H

Runoff = 15.27 cfs @ 12.43 hrs, Volume= 2.020 af, Depth= 1.11"

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Area	(ac) C	N Des	cription								
0.	.000	98 Untr	Untreated existing impervious, HSG A								
0.	.000		Untreated existing impervious, HSG C								
0.	.000		Untreated existing impervious, HSG D								
0.	.000	98 Exis	ting imper	vious to be	treated as offset, HSG D						
0.	.000				azed, HSG A						
5.	.165	71 Exis	ting meado	ow, non-gra	azed, HSG C						
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0.	.000	30 Exis	ting Wood	s, Good, H	SG A						
4.	.977	70 Exis	ting Wood	s, Good, H	SG C						
2.	.248	77 Exis	ting Wood	s, Good, H	SG D						
2.	.513	70 Prop	osed Woo	ds, Good,	HSG C						
0.	.330	77 Prop	osed Woo	ds, Good,	HSG D						
					pe treated, HSG C						
					pe treated, HSG D						
					ervious, HSG C						
					ervious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lif							
				dow, ski lif	t, HSG D						
	-		ghted Aver								
	.948		0% Pervio								
0.	.828	3.80	% Impervi	ous Area							
т.	ما العدم ما	Clana	\/_li	Canasitu	Description						
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Observat Filmer						
7.8	100	0.1300	0.21		Sheet Flow,						
4.0	250	0.0000	0.70		Grass: Dense n= 0.240 P2= 2.40"						
1.6	358	0.2800	3.70		Shallow Concentrated Flow,						
47.0	4.050	0.0700	4 20		Short Grass Pasture Kv= 7.0 fps						
17.3	1,352	0.2700	1.30		Shallow Concentrated Flow,						
1 1	765	0.2000	2 42		Forest w/Heavy Litter Kv= 2.5 fps						
4.1	765	0.2000	3.13		Shallow Concentrated Flow,						
11.8	793	0.2000	1.12		Short Grass Pasture Kv= 7.0 fps						
11.0	193	0.2000	1.12		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps						
40.6	2 260	Total			1 Orest Willieavy Liller INV- 2.0 Ips						
42.6	3,368	Total									

Summary for Subcatchment 77S: WS 16

Runoff = 1.73 cfs @ 12.10 hrs, Volume= 0.120 af, Depth= 1.23"

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Area ((ac) C	N Des	cription									
0.0	000	98 Untr	eated exist	ting imperv	ious, HSG A							
0.0	000	98 Untr	Untreated existing impervious, HSG C									
0.0	037 9				ious, HSG D							
0.000 98 Existing impervious to be treated as offset, HSG D												
0.000 30 Existing meadow, non-grazed, HSG A												
0.000 71 Existing meadow, non-grazed, HSG C												
0.0	000 7				azed, HSG D							
0.0	000 3			s, Good, H								
0.0	083 7			s, Good, H								
0.0	657 7	77 Exis	ting Woods	s, Good, H	SG D							
0.0	054 7	0 Prop	osed Woo	ds, Good, I	HSG C							
0.0	000 7	77 Prop	osed Woo	ds, Good, I	HSG D							
0.0	000				e treated, HSG C							
0.0	000		•		e treated, HSG D							
0.0	000	98 Untr	eated prop	osed impe	rvious, HSG C							
0.0	000				rvious, HSG D							
0.	147 7				dow, non-grazed, HSG C							
0.0	041 7				dow, non-grazed, HSG D							
0.0	000 7				dow to be treated, HSG C							
0.0	000 7				dow to be treated, HSG D							
0.	154 7			dow, ski tra								
0.0	000 7	78 Prop	osed mea	dow, ski tra	ail, HSG D							
0.0	000 7			dow, ski lift								
0.	000 7	78 Prop	osed mea	dow, ski lift	; HSG D							
1.	173 7	75 Weig	ghted Aver	age								
1.	136		5% Pervio									
0.0	037	3.15	% Impervio	ous Area								
			-									
Tc	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)								
9.0	100	0.0900	0.18		Sheet Flow,							
					Grass: Dense n= 0.240 P2= 2.40"							
0.2	30	0.0900	2.10		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
0.3	25	0.4000	1.58		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
1.6	119	0.2500	1.25		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
2.6	139	0.1300	0.90		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
2.6	161	0.1700	1.03		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
0.1	70	0.0300	8.52	25.56	Trap/Vee/Rect Channel Flow,							
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
					n= 0.022							
16.4	644	Total										
	•											

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Summary for Subcatchment 78S: WS 17

Runoff = 3.53 cfs @ 11.94 hrs, Volume= 0.151 af, Depth= 1.36"

Area	(ac)	CN	Desc	cription									
0.	.000	98	Untre	Untreated existing impervious, HSG A									
0	.000	98		Jntreated existing impervious, HSG C									
0	.047	98	Untre	Jntreated existing impervious, HSG D									
0.	.000	98	Exist	Existing impervious to be treated as offset, HSG D									
0.	.000	30	Exist	ing mead	ow, non-gra	azed, HSG A							
0.	.000	71	Exist	ting mead	ow, non-gra	azed, HSG C							
0.	.000	78	Exist	ting mead	ow, non-gra	azed, HSG D							
	.000	30			s, Good, H								
	.011	70			s, Good, H								
0.	.793	77	Exist	ting Wood	s, Good, H	SG D							
0.	.000	70	Prop	osed Woo	ds, Good,	HSG C							
0.	.000	77	Prop	osed Woo	ds, Good,	HSG D							
	.000	98				pe treated, HSG C							
	.000	98				pe treated, HSG D							
	.047	98				ervious, HSG C							
	.000	98				ervious, HSG D							
	.275	71				adow, non-grazed, HSG C							
	.044	78				adow, non-grazed, HSG D							
	.000	71				adow to be treated, HSG C							
	.000	78				adow to be treated, HSG D							
	.119	71			dow, ski tra								
	.000	78			dow, ski tra								
	.000	71			dow, ski lif								
	.000	78			dow, ski lif	t, HSG D							
	.336	77		ghted Aver									
	.242			6% Pervio									
0.	.094		7.04	% Impervi	ous Area								
_	_				_								
Tc	Lengt		Slope	Velocity	Capacity	Description							
<u>(min)</u>	(feet		(ft/ft)	(ft/sec)	(cfs)								
0.2	2	3 0.	1700	2.09		Sheet Flow,							
						n= 0.011 P2= 2.40"							
0.4	5	30.	0800	1.98		Shallow Concentrated Flow,							
						Short Grass Pasture Kv= 7.0 fps							
2.1	12	6 0.	1600	1.00		Shallow Concentrated Flow,							
						Forest w/Heavy Litter Kv= 2.5 fps							
0.2	20	2 0.	1400	15.06	75.28	Trap/Vee/Rect Channel Flow,							
						Bot.W=4.00' D=1.00' Z= 1.0 '/' Top.W=6.00'							
						n= 0.030							
2.9	40	4 To	otal										

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Summary for Subcatchment 79S: WS 17A

Runoff = 6.78 cfs @ 12.03 hrs, Volume= 0.381 af, Depth= 1.42"

Area	(ac)	CN De	escription								
0.	.000	98 Ur	Untreated existing impervious, HSG A								
0.	.000	98 Ur	Untreated existing impervious, HSG C								
0.	.000	98 Ur	Untreated existing impervious, HSG D								
0.	.000	98 Ex	isting imper	vious to be	treated as offset, HSG D						
0.	.000	30 Ex	isting mead	ow, non-gra	azed, HSG A						
0.	.000	71 Ex	isting mead	ow, non-gra	azed, HSG C						
0.	.000	78 Ex	isting mead	ow, non-gra	azed, HSG D						
0.	.000	30 Ex	isting Wood	s, Good, H	SG A						
	.000	70 Ex	isting Wood	s, Good, H	SG C						
0.	.035	77 Ex	isting Wood	s, Good, H	SG D						
0.	.000		oposed Woo	ods, Good,	HSG C						
0.	.000		oposed Woo	ods, Good,	HSG D						
	.780				e treated, HSG C						
	.000				e treated, HSG D						
	.039				rvious, HSG C						
	.000				rvious, HSG D						
	.000				ndow, non-grazed, HSG C						
	.000				ndow, non-grazed, HSG D						
	.761				ndow to be treated, HSG C						
	.248				ndow to be treated, HSG D						
	.349		oposed mea		·						
	.000		oposed mea								
	.000		oposed mea								
0.	.000	78 Pr	oposed mea	idow, ski lift	t, HSG D						
	.212		eighted Ave								
	.393	74	.50% Pervio	ous Area							
0.	.819	25	.50% Imper	vious Area							
Tc	Length			Capacity	Description						
(min)	(feet) (ft/f	t) (ft/sec)	(cfs)							
6.3	73	3 0.120	0 0.19		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
1.8	94	1 0.120	0 0.87		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
2.4	268	3 0.070	0 1.85		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
10.5	43	5 Total									

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Summary for Subcatchment 80S: WS 17B

Runoff = 7.10 cfs @ 11.95 hrs, Volume= 0.318 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 10-Year Rainfall=3.40"

Area	(ac)	CN	Desc	cription								
	.000	98			ting imperv	ious, HSG A						
	.000	98				ious, HSG C						
	.000	98				ious, HSG D						
	.000	98		Existing impervious to be treated as offset, HSG D								
	.000	30		Existing impervious to be treated as onset, 113G D Existing meadow, non-grazed, HSG A								
	.000	71				azed, HSG C						
	.000	78				azed, HSG D						
	.000	30			s, Good, H							
	.001	70			s, Good, H							
0	.000	77			s, Good, H							
0	.000	70	Prop	osed Woo	ds, Good, I	HSG C						
0	.000	77	Prop	osed Woo	ds, Good, I	HSG D						
	.843	98	Prop	osed impe	ervious to b	e treated, HSG C						
	.055	98				e treated, HSG D						
	.000	98				rvious, HSG C						
	.000	98				rvious, HSG D						
	.000	71				dow, non-grazed, HSG C						
	.000	78				dow, non-grazed, HSG D						
	.441	71				dow to be treated, HSG C						
	.006	78			•	dow to be treated, HSG D						
	.000	71			dow, ski tra							
	.000	78			dow, ski tra							
	.000	71			dow, ski lift							
	.000	78			dow, ski lift	I, HSG D						
	.346	81		hted Aver	•							
	.448		-	2% Pervio								
U	.898		38.2	8% imperv	ious Area							
Тс	Lengt	h C	lope	Velocity	Capacity	Description						
(min)	(feet		ft/ft)	(ft/sec)	(cfs)	Description						
0.7	10		200	2.44	(013)	Sheet Flow,						
0.7	10	U U. I	200	Z. 44		Smooth surfaces n= 0.011 P2= 2.40"						
0.1	4	6 N 1	200	7.03		Shallow Concentrated Flow,						
0.1		O. 1	_00	7.00		Paved Kv= 20.3 fps						
3.5	1,12	7 01	200	5.43	16.30	Trap/Vee/Rect Channel Flow,						
0.0	.,			00	. 5.50	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
						n= 0.069 Riprap, 6-inch						
4.2	4.07	2 Ta	4 - 1			1 1/						

4.3 1,273 Total

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Summary for Subcatchment 81S: WS 17C

Runoff = 2.06 cfs @ 12.09 hrs, Volume= 0.141 af, Depth= 1.29"

Area	(ac)	CN	Desc	ription								
0.	000	98	Untre	eated exis	rious, HSG A							
0.	000	98	Untre	Intreated existing impervious, HSG C								
0.	000	98	Untre	Intreated existing impervious, HSG D								
0.	000	98	Exist	Existing impervious to be treated as offset, HSG D								
0.	000	30	Exist	Existing meadow, non-grazed, HSG A								
0.	000	71	Exist	ing meado	ow, non-gra	azed, HSG C						
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D						
	000	30			s, Good, H							
	298	70			s, Good, H							
0.	000	77	Exist	ing Woods	s, Good, H	SG D						
	000	70			ds, Good,							
	000	77			ds, Good,							
	000	98				e treated, HSG C						
	000	98				e treated, HSG D						
	264	98				rvious, HSG C						
		000 98 Untreated proposed impervious, HSG D										
	746	γ										
	000	78				dow, non-grazed, HSG D						
	000	71				adow to be treated, HSG C						
	000	78				adow to be treated, HSG D						
	000	71			dow, ski tra							
	000	78			dow, ski tra							
	000	71			dow, ski lift							
	000	78			dow, ski lift	t, HSG D						
	308	76		hted Aver								
	044			2% Pervio								
0.	264		20.18	8% Imperv	vious Area							
Tc	Lengt	·h	Slope	Velocity	Capacity	Description						
(min)	(fee		(ft/ft)	(ft/sec)	(cfs)	Description						
10.8).2000	0.09	(0.0)	Sheet Flow,						
10.0	Ū		.2000	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"						
4.7	31	6 0	.2000	1.12		Shallow Concentrated Flow,						
	٥.	-	000	2		Forest w/Heavy Litter Kv= 2.5 fps						
0.5	7	6 0	.1300	2.52		Shallow Concentrated Flow,						
0.3	•	. •				Short Grass Pasture Kv= 7.0 fps						
16.0	44	8 T	otal									

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Summary for Subcatchment 82S: WS 17D

Runoff = 2.41 cfs @ 12.08 hrs, Volume= 0.157 af, Depth= 1.42"

Area	(ac)	CN	Desc	cription								
0.	.000	98	Untre	eated exist	ting impervi	ious, HSG A						
0.	.000	98	Untre	Jntreated existing impervious, HSG C								
0.	.000	98	Untre	Jntreated existing impervious, HSG D								
0.	.000	98	Exist	Existing impervious to be treated as offset, HSG D								
0.	.000	30	Exist	ting meado	w, non-gra	azed, HSG A						
0.	.000	71	Exist	ting meado	w, non-gra	azed, HSG C						
	.000	78				azed, HSG D						
	.000	30			s, Good, H							
	.000	70			s, Good, H							
	.000	77			s, Good, H							
	.000	70			ds, Good, I							
	.000	77			ds, Good, I							
	.000	98				e treated, HSG C						
	.000	98				e treated, HSG D						
	.346	98				rvious, HSG C						
	0.003 98 Untreated proposed impervious, HSG D											
	.974	71				dow, non-grazed, HSG C						
	.005	78				dow, non-grazed, HSG D						
	.000	71				dow to be treated, HSG C						
	.000	78				dow to be treated, HSG D						
	.000	71			dow, ski tra							
	.000	78			dow, ski tra							
	.000	71			dow, ski lift							
	.000	78			dow, ski lift	I, HSG D						
	.328	78		hted Aver								
	.979			2% Pervio								
0.	.349		26.2	8% Imperv	rious Area							
_						D 1.0						
Tc	Lengt		Slope	Velocity	Capacity	Description						
(min)	(feet		(ft/ft)	(ft/sec)	(cfs)							
10.9	49	9 0.	1500	0.07		Sheet Flow,						
		_				Woods: Dense underbrush n= 0.800 P2= 2.40"						
1.6	9:	5 0.	1500	0.97		Shallow Concentrated Flow,						
	4 -					Forest w/Heavy Litter Kv= 2.5 fps						
2.4	15	5 0.	1800	1.06		Shallow Concentrated Flow,						
						Forest w/Heavy Litter Kv= 2.5 fps						
14.9	29	9 Tc	otal									

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Summary for Subcatchment 83S: WS 17E

Runoff = 11.38 cfs @ 11.98 hrs, Volume= 0.556 af, Depth= 1.93"

Area	(ac) (CN De	scription								
0.	000	98 Unt	Intreated existing impervious, HSG A								
0.	000	98 Unt	Intreated existing impervious, HSG C								
0.	000	98 Unt	Intreated existing impervious, HSG D								
0.	000		xisting impervious to be treated as offset, HSG D								
0.	000	30 Exi	sting mead	ow, non-gra	azed, HSG A						
	000				azed, HSG C						
					azed, HSG D						
0.	000	30 Exi	sting Wood	s, Good, H	SG A						
0.	000	70 Exi	sting Wood	s, Good, H	SG C						
			sting Wood								
		70 Pro	posed Woo	ds, Good,	HSG C						
0.	036	77 Pro	posed Woo	ds, Good,	HSG D						
0.	414	98 Pro	posed impe	ervious to b	oe treated, HSG C						
					oe treated, HSG D						
			Jntreated proposed impervious, HSG C								
	0.000 71 Proposed developed meadow, non-grazed, HSG C										
	0.000 78 Proposed developed meadow, non-grazed, HSG D										
	340				adow to be treated, HSG C						
	819				adow to be treated, HSG D						
	000		posed mea	,	·						
	004		posed mea								
	000		posed mea								
	000		posed mea		t, HSG D						
			ighted Aver								
	199		65% Pervio								
1.:	256	36.	35% Imper	vious Area							
Тс	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)			(cfs)	2 - 2 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -						
1.2	100	0.0300	1.40	, ,	Sheet Flow,						
					Smooth surfaces n= 0.011 P2= 2.40"						
5.1	1,621	0.1000	5.30	21.20	Trap/Vee/Rect Channel Flow,						
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'						
					n= 0.069 Riprap, 6-inch						
6.3	1,721	Total									

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Summary for Subcatchment 84S: WS 17F

Runoff = 8.20 cfs @ 12.17 hrs, Volume= 0.678 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 10-Year Rainfall=3.40"

Area	(ac) (CN E	Description								
0.	000	98 L	Untreated existing impervious, HSG A								
0.	000	98 L	Jntreated existing impervious, HSG C								
0.	000	98 L	Intreated existing impervious, HSG D								
0.	000	98 E	Existing impervious to be treated as offset, HSG D								
0.	000	30 E	Existing mead	low, non-gra	azed, HSG A						
0.	000	71 E	Existing mead	low, non-gra	azed, HSG C						
			Existing mead								
			Existing Wood								
			Existing Wood								
			Existing Wood								
			Proposed Wo								
			Proposed Wo								
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					idow, non-grazed, HSG C						
					dow, non-grazed, HSG D						
					dow to be treated, HSG C						
					dow to be treated, HSG D						
			Proposed mea	•							
			Proposed mea								
			Proposed mea								
			Proposed mea		t, HSG D						
			Veighted Ave								
	370		'3.47% Pervi								
1.:	217	2	26.53% Imper	vious Area							
Тс	Length	Slo	pe Velocity	Capacity	Description						
(min)	(feet)		/ft) (ft/sec)	(cfs)	Description						
10.9	44				Sheet Flow,						
10.0		0.12	0.07		Woods: Dense underbrush n= 0.800 P2= 2.40"						
12.6	683	0.13	0.90		Shallow Concentrated Flow,						
.2.0	000	50	0.00		Forest w/Heavy Litter Kv= 2.5 fps						
23.5	727	Tota	<u> </u>								

Summary for Subcatchment 85S: WS 18

Runoff = 0.52 cfs @ 11.95 hrs, Volume= 0.023 af, Depth= 1.49"

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Area	(ac)	CN	Desc	cription							
0.	000	98	Untre	Jntreated existing impervious, HSG A							
0.	000	98	Untre	Untreated existing impervious, HSG C							
0.	021	98	Untre	eated exis	ting imperv	rious, HSG D					
0.	000	98	Exist	ing imper	ious to be	treated as offset, HSG D					
0.	000	30	Exist	Existing meadow, non-grazed, HSG A							
0.	000	71	Exist	ing meado	ow, non-gra	azed, HSG C					
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D					
	000	30			s, Good, H						
	000	70			s, Good, H						
0.	165	77	Exist	ing Woods	s, Good, H	SG D					
	000	70			ds, Good,						
	000	77			ds, Good,						
	000	98				e treated, HSG C					
	000	98				e treated, HSG D					
	000	98			•	rvious, HSG C					
	000	98				rvious, HSG D					
	000	71		Proposed developed meadow, non-grazed, HSG C							
	000	78		Proposed developed meadow, non-grazed, HSG D							
	000	71				dow to be treated, HSG C					
	000	78			•	dow to be treated, HSG D					
	000	71			dow, ski tra						
	000	78			dow, ski tra						
	000	71			dow, ski lift						
•	000	78			dow, ski lift	t, HSG D					
	186	79		hted Aver	•						
	165			1% Pervio							
0.	021		11.29	9% Imperv	vious Area						
Тс	Lengtl	h S	lope	Velocity	Capacity	Description					
(min)	(feet		ft/ft)	(ft/sec)	(cfs)	1					
4.1	6	5 0.2	2700	0.26		Sheet Flow,					
						Grass: Dense n= 0.240 P2= 2.40"					
0.1	92	2 0.1	100	16.31	48.94	Trap/Vee/Rect Channel Flow,					
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
						n= 0.022					
4.2	15	7 To	tal								

Summary for Subcatchment 86S: WS 19

Runoff = 1.20 cfs @ 12.04 hrs, Volume= 0.070 af, Depth= 1.29"

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Area	(ac)	CN	Desc	cription								
0.	000	98	Untre	eated exis	ting imperv	ious, HSG A						
0.	000	98	Untre	eated exis	ting imperv	ious, HSG C						
0.	800	98	Untre	Intreated existing impervious, HSG D								
0.	000	98	Exist	xisting impervious to be treated as offset, HSG D								
0.	000	30	Exist	xisting meadow, non-grazed, HSG A								
0.	000	71	Exist	existing meadow, non-grazed, HSG C								
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D						
0.	000	30	Exist	ing Woods	s, Good, H	SG A						
0.	060	70	Exist	ing Woods	s, Good, H	SG C						
0.	313	77	Exist	ing Woods	s, Good, H	SG D						
0.	000	70	Prop	osed Woo	ds, Good,	HSG C						
0.	000	77	Prop	osed Woo	ds, Good,	HSG D						
0.	000	98	Prop	osed impe	ervious to b	e treated, HSG C						
0.	000	98	Prop	osed impe	ervious to b	e treated, HSG D						
0.	016	98	Untre	eated prop	osed impe	rvious, HSG C						
0.	000	98	Untre	eated prop	osed impe	rvious, HSG D						
0.	116	71	Prop	osed deve	loped mea	dow, non-grazed, HSG C						
	135	78	Proposed developed meadow, non-grazed, HSG D									
	000	71 Proposed developed meadow to be treated, HSG C										
	000	78				dow to be treated, HSG D						
	000	71			dow, ski tra							
	000	78			dow, ski tra							
	000	71			dow, ski lift							
0.	000	78	Prop	<u>osed mea</u>	dow, ski lift	t, HSG D						
0.	648	76	Weig	hted Aver	age							
0.	624		96.3	0% Pervio	us Area							
0.	024		3.70	% Impervi	ous Area							
Tc	Length		lope	Velocity	Capacity	Description						
(min)	(feet) ((ft/ft)	(ft/sec)	(cfs)							
7.2	100	0.1	1600	0.23		Sheet Flow,						
						Grass: Dense n= 0.240 P2= 2.40"						
4.2	253	3 0.1	1600	1.00		Shallow Concentrated Flow,						
						Forest w/Heavy Litter Kv= 2.5 fps						
0.1	102	2 0.0	0600	12.05	36.14	Trap/Vee/Rect Channel Flow,						
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
						n= 0.022						
11.5	455	5 To	tal									

Summary for Subcatchment 87S: WS 20

Runoff = 3.36 cfs @ 11.98 hrs, Volume= 0.161 af, Depth= 1.42"

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Area	(ac) C	N Des	cription								
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A						
0.	.000				rious, HSG C						
0.	.037	98 Untr	Untreated existing impervious, HSG D								
0.	.000	98 Exis	Existing impervious to be treated as offset, HSG D								
0.	.000	30 Exis	Existing meadow, non-grazed, HSG A								
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0.	.000	30 Exis	ting Wood	s, Good, H	SG A						
0.	.007	70 Exis	ting Wood	s, Good, H	SG C						
0.	.881	77 Exis	ting Wood	s, Good, H	SG D						
0.	.000	70 Prop	osed Woo	ds, Good,	HSG C						
0.	.000	77 Prop	osed Woo	ds, Good,	HSG D						
0.	.000	98 Prop	osed impe	ervious to b	e treated, HSG C						
		98 Prop	osed impe	ervious to b	e treated, HSG D						
0.	.013	98 Untr	eated prop	osed impe	rvious, HSG C						
					rvious, HSG D						
				•	idow, non-grazed, HSG C						
					idow, non-grazed, HSG D						
				•	dow to be treated, HSG C						
					dow to be treated, HSG D						
				dow, ski tra	,						
				dow, ski tra	·						
				dow, ski lift							
				dow, ski lift	t, HSG D						
			ghted Aver								
	.281		3% Pervio								
0.	.077	5.67	% Impervi	ous Area							
_		٥.									
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
0.4	34	0.0600	1.49		Sheet Flow,						
					Smooth surfaces n= 0.011 P2= 2.40"						
0.1	18	0.3900	4.37		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
2.8	166	0.1600	1.00		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
2.6	144	0.1400	0.94		Shallow Concentrated Flow,						
		0.0005	<u> </u>	0	Forest w/Heavy Litter Kv= 2.5 fps						
0.1	64	0.0300	8.52	25.56	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.022						
6.0	426	Total									

Summary for Subcatchment 88S: WS 20A

Runoff = 2.62 cfs @ 11.94 hrs, Volume= 0.113 af, Depth= 1.17"

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Area	(ac) C	N Des	cription								
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A						
0.	.000	98 Untr	Untreated existing impervious, HSG C								
0.	.000		Untreated existing impervious, HSG D								
0.	.000	98 Exis	Existing impervious to be treated as offset, HSG D								
0.	.000		Existing meadow, non-grazed, HSG A								
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0.	.000	30 Exis	ting Wood	s, Good, H	SG A						
0.	.287	70 Exis	ting Wood	s, Good, H	SG C						
0.	.000	77 Exis	ting Wood	s, Good, H	SG D						
0.	.000	70 Prop	osed Woo	ds, Good,	HSG C						
				ds, Good,							
					e treated, HSG C						
					pe treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
	0.600 71 Proposed developed meadow, non-grazed, HSG C										
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lif							
				dow, ski lif	t, HSG D						
			ghted Aver								
	.013		3% Pervio								
0.	.147	12.6	7% Imper	lous Area							
т.	ما اسم ما	Clana	\/alaaits/	Canacity	Description						
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Observat Electric						
0.7	100	0.1000	2.27		Sheet Flow,						
0.4	47	0.4000	0.40		Smooth surfaces n= 0.011 P2= 2.40"						
0.1	47	0.1000	6.42		Shallow Concentrated Flow,						
0.4	25	0.4200	4.50		Paved Kv= 20.3 fps						
0.1	35	0.4300	4.59		Shallow Concentrated Flow,						
1.0	116	0.4700	1.02		Short Grass Pasture Kv= 7.0 fps						
1.9	116	0.1700	1.03		Shallow Concentrated Flow,						
0.5	32	0.1900	1.09		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,						
0.5	32	0.1900	1.09		Forest w/Heavy Litter Kv= 2.5 fps						
2.2	220	Total			1 Orest Willieavy Liller NV- 2.3 Ips						
3.3	330	Total									

Summary for Subcatchment 89S: WS 20B

Runoff = 1.41 cfs @ 11.97 hrs, Volume= 0.068 af, Depth= 1.11"

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Area	(ac)	CN D	escription								
0.	000	98 Ui	Jntreated existing impervious, HSG A								
0.	000	98 Uı	Untreated existing impervious, HSG C								
0.	000	98 Uı	Jntreated existing impervious, HSG D								
0.	000	98 Ex	Existing impervious to be treated as offset, HSG D								
0.	000	30 Ex	Existing meadow, non-grazed, HSG A								
0.	000	71 Ex	Existing meadow, non-grazed, HSG C								
0.	000		isting mead	ow, non-gra	azed, HSG D						
	000		isting Wood								
	026		isting Wood								
0.	000		isting Wood	s, Good, H	SG D						
	098		oposed Woo								
	000		oposed Woo								
	000				pe treated, HSG C						
	000				pe treated, HSG D						
	054			•	ervious, HSG C						
	000				ervious, HSG D						
	182		Proposed developed meadow, non-grazed, HSG C								
	000		Proposed developed meadow, non-grazed, HSG D								
	000				adow to be treated, HSG C						
	000		•	•	adow to be treated, HSG D						
	370		oposed mea								
	000		oposed mea								
	000		oposed mea								
	000		oposed mea		t, HSG D						
	730		eighted Ave	•							
	676	_	60% Pervio								
0.	054	7.	40% Impervi	ous Area							
Тс	Length	Slop	e Velocity	Capacity	Description						
(min)	(feet)			(cfs)	1						
5.3	76		, , , , , , , , , , , , , , , , , , , 	, ,	Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
0.2	140	0.130	0 13.74	228.43	Trap/Vee/Rect Channel Flow,						
					Bot.W=3.00' D=3.50' Z= 1.0 & 0.0 '/' Top.W=6.50'						
					n= 0.050 Mountain streams w/large boulders						
5.5	216	Total									

Summary for Subcatchment 90S: WS 20C

Runoff = 8.15 cfs @ 12.13 hrs, Volume= 0.620 af, Depth= 1.42"

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Area	(ac)	CN	Desc	ription								
0.	000	98	Untre	eated exis	ting imperv	ious, HSG A						
0.	000	98	Untre	eated exis	ting imperv	ious, HSG C						
0.	000	98	Untre	Intreated existing impervious, HSG D								
0.	000	98	Exist	xisting impervious to be treated as offset, HSG D								
0.	000	30	Exist	xisting meadow, non-grazed, HSG A								
	000	71		Existing meadow, non-grazed, HSG C								
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D						
	000	30	Exist	ing Woods	s, Good, H	SG A						
	487	70			s, Good, H							
	000	77			s, Good, H							
	117	70			ds, Good,							
	000	77			ds, Good,							
	000	98				e treated, HSG C						
	000	98				e treated, HSG D						
	368	98				rvious, HSG C						
	000	98				rvious, HSG D						
	264	71				dow, non-grazed, HSG C						
	000	78	Proposed developed meadow, non-grazed, HSG D									
	000	71				dow to be treated, HSG C						
	000	78				dow to be treated, HSG D						
	001	71			dow, ski tra							
	000	78			dow, ski tra							
	000	71			dow, ski lift							
	000	78			dow, ski lift	t, HSG D						
	237	78		jhted Aver	•							
	869			3% Pervio								
1.	368		26.12	2% Imperv	/ious Area							
Tc	Lengt		Slope	Velocity	Capacity	Description						
(min)	(fee		(ft/ft)	(ft/sec)	(cfs)							
10.8	5	6 0.	.2000	0.09		Sheet Flow,						
						Woods: Dense underbrush n= 0.800 P2= 2.40"						
8.7	58	2 0.	.2000	1.12		Shallow Concentrated Flow,						
						Forest w/Heavy Litter Kv= 2.5 fps						
0.3	11	6 0.	.1400	5.87	17.60	Trap/Vee/Rect Channel Flow,						
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
						n= 0.069 Riprap, 6-inch						
19.8	75	4 T	otal									

Summary for Subcatchment 91S: WS 20D

Runoff = 17.33 cfs @ 12.30 hrs, Volume= 1.861 af, Depth= 1.29"

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Area	(ac) C	N Desc	cription								
0.	000 9	98 Untr	eated exis	ting imperv	rious, HSG A						
0.	002	98 Untr	eated exis	ting imperv	rious, HSG C						
0.	000	98 Untr	Jntreated existing impervious, HSG D								
			Existing impervious to be treated as offset, HSG D								
			Existing meadow, non-grazed, HSG A								
					azed, HSG C						
					azed, HSG D						
				s, Good, H							
			0	s, Good, H							
				s, Good, H							
				ds, Good,							
				ds, Good,							
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C rvious, HSG D						
					idow, non-grazed, HSG C						
					idow, non-grazed, HSG D						
					idow, non-grazed, noo b						
					idow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lift							
				dow, ski lift							
17.	266	76 Weig	ghted Aver	age							
	478		4% Pervio								
1.	788	10.3	6% Imperv	/ious Area							
	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
9.5	100	0.0800	0.18		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
2.8	470	0.1600	2.80		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
5.8	408	0.2200	1.17		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
1.9	282	0.1300	2.52		Shallow Concentrated Flow,						
44.0	500	0.4000	0.00		Short Grass Pasture Kv= 7.0 fps						
11.0	593	0.1300	0.90		Shallow Concentrated Flow,						
2.0	EAA	0.0000	2.04	14.50	Forest w/Heavy Litter Kv= 2.5 fps						
2.2	511	0.0600	3.84	11.52	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
	0.004	Tatal			n= 0.069 Riprap, 6-inch						
33.2	2,364	Total									

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Summary for Subcatchment 92S: WS 21

Runoff = 0.89 cfs @ 12.05 hrs, Volume= 0.054 af, Depth= 1.42"

Area	(ac) C	N Des	cription								
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A						
0.	000	98 Untr	Jntreated existing impervious, HSG C								
0.	020	98 Untr	eated exis	ting imperv	vious, HSG D						
0.	000	98 Exis	ting imperv	vious to be	treated as offset, HSG D						
0.	000	30 Exis	ting meado	ow, non-gra	azed, HSG A						
					azed, HSG C						
					azed, HSG D						
				s, Good, H							
			_	s, Good, H							
				s, Good, H							
				ds, Good,							
				ds, Good,							
					pe treated, HSG C						
					pe treated, HSG D						
					ervious, HSG C						
					ervious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lif							
				dow, ski lif	t, HSG D						
			ghted Aver								
	433		8% Pervio								
0.	020	4.42	% Impervi	ous Area							
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Description						
11.0	46		0.07	(013)	Sheet Flow,						
11.0	40	0.1300	0.07		Woods: Dense underbrush n= 0.800 P2= 2.40"						
1.5	82	0.1300	0.90		Shallow Concentrated Flow,						
1.5	02	0.1300	0.90		Forest w/Heavy Litter Kv= 2.5 fps						
0.3	138	0.0300	8.52	25.56	Trap/Vee/Rect Channel Flow,						
0.0	130	0.0000	0.02	20.00	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.022						
12.8	266	Total									

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Summary for Subcatchment 93S: WS 21A

Runoff = 13.33 cfs @ 11.96 hrs, Volume= 0.622 af, Depth= 1.77"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.030	70	Existing Woods, Good, HSG C
0.334	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.062	98	Proposed impervious to be treated, HSG C
1.172	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.149	71	Proposed developed meadow to be treated, HSG C
2.457	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.204	83	Weighted Average
2.970		70.65% Pervious Area
1.234		29.35% Impervious Area

Type II 24-hr 10-Year Rainfall=3.40" Printed 9/24/2021

55310.01-West Mountain-PR

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	47	0.0200	1.02	,	Sheet Flow,
					Smooth surfaces n= 0.011 P2= 2.40"
1.4	366	0.0800	4.44	13.31	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
0.4		0.0400	7.00	00.00	n= 0.069 Riprap, 6-inch
0.1	62	0.0100	7.20	22.62	Pipe Channel,
					24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'
					n= 0.013 Corrugated PE, smooth interior
1.5	105	0.2300	1.20		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.9	170	0.0400	3.14	9.41	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.069 Riprap, 6-inch
0.1	50	0.0500	16.10	50.59	Pipe Channel,
					24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'
					n= 0.013 Corrugated PE, smooth interior
0.3	110	0.1300	5.65	16.96	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/ Top.W=4.00'
					n= 0.069 Riprap, 6-inch
5.1	910	Total			,

Summary for Subcatchment 94S: WS 21B

Runoff = 5.75 cfs @ 12.08 hrs, Volume= 0.381 af, Depth= 1.42"

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Area (a	ac) C	N Des	cription								
0.0	000	98 Untr	eated exis	ting imperv	rious, HSG A						
0.0	000	98 Untr	Untreated existing impervious, HSG C								
0.0	000	98 Untr	Untreated existing impervious, HSG D								
0.0	000				treated as offset, HSG D						
0.0	000	30 Exis	ting meado	ow, non-gra	azed, HSG A						
0.0	000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.0	000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0.0	000	30 Exis	ting Wood	s, Good, H	SG A						
0.4	113	70 Exis	ting Wood	s, Good, H	SG C						
0.0			ting Wood	s, Good, H	SG D						
				ds, Good,							
				ds, Good,							
					e treated, HSG C						
					oe treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lift							
				dow, ski lif	t, HSG D						
			ghted Aver								
	125		8% Pervio								
0.7	792	24.6	2% Imper	ious Area							
То	l opath	Clana	\/alaait\/	Consoitu	Description						
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description						
8.3	100		0.20	(013)	Sheet Flow,						
0.3	100	0.1100	0.20		Grass: Dense n= 0.240 P2= 2.40"						
1.2	161	0.1100	2.32		Shallow Concentrated Flow,						
1.4	101	0.1100	2.52		Short Grass Pasture Kv= 7.0 fps						
5.8	370	0.1800	1.06		Shallow Concentrated Flow,						
5.0	370	0.1000	1.00		Forest w/Heavy Litter Kv= 2.5 fps						
15.3	631	Total			. State in loary Little 100 100						

Summary for Subcatchment 95S: WS 21C

Runoff = 14.33 cfs @ 12.66 hrs, Volume= 2.393 af, Depth= 1.17"

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 Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
1.021	98	Untreated existing impervious, HSG C
0.399	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
3.513	71	Existing meadow, non-grazed, HSG C
3.194	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
11.552	70	Existing Woods, Good, HSG C
4.190	77	Existing Woods, Good, HSG D
0.457	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.027	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.156	71	Proposed developed meadow, non-grazed, HSG C
0.003	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.001	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
 0.000	78	Proposed meadow, ski lift, HSG D
24.513	74	Weighted Average
23.066		94.10% Pervious Area
1.447		5.90% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23	· /	Sheet Flow,
					Grass: Dense n= 0.240 P2= 2.40"
0.1	17	0.1500	2.71		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
2.2	146	0.1900	1.09		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.2	259	0.3000	1.37		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.4	218	0.1100	0.83		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.3	279	0.1900	1.09		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.3	186	0.1400	0.94		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.1	90	0.2900	1.35		Shallow Concentrated Flow,
	470	0.4000	0.70		Forest w/Heavy Litter Kv= 2.5 fps
3.6	173	0.1000	0.79		Shallow Concentrated Flow,
0.0	004	0.4400	0.04		Forest w/Heavy Litter Kv= 2.5 fps
3.6	201	0.1400	0.94		Shallow Concentrated Flow,
4.0	256	0.4200	0.07		Forest w/Heavy Litter Kv= 2.5 fps
4.9	256	0.1200	0.87		Shallow Concentrated Flow,
4.9	195	0.0700	0.66		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
4.9	195	0.0700	0.00		Forest w/Heavy Litter Kv= 2.5 fps
1.7	80	0.1000	0.79		Shallow Concentrated Flow,
1.7	00	0.1000	0.13		Forest w/Heavy Litter Kv= 2.5 fps
7.0	334	0.1000	0.79		Shallow Concentrated Flow,
7.0	004	0.1000	0.70		Forest w/Heavy Litter Kv= 2.5 fps
3.5	187	0.1300	0.90		Shallow Concentrated Flow,
0.0	101	0.1000	0.00		Forest w/Heavy Litter Kv= 2.5 fps
1.9	139	0.2400	1.22		Shallow Concentrated Flow,
		0.2.00			Forest w/Heavy Litter Kv= 2.5 fps
2.1	133	0.1800	1.06		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.3	317	0.1600	19.24	692.62	Trap/Vee/Rect Channel Flow,
	-				Bot.W=9.00' D=3.00' Z= 1.0 '/' Top.W=15.00'
					n= 0.050 Mountain streams w/large boulders
59.5	3,310	Total			

Summary for Subcatchment 96S: WS 22

Runoff = 0.70 cfs @ 12.04 hrs, Volume= 0.041 af, Depth= 1.49"

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Area	(ac)	CN [Desc	cription									
0.	000	98 l	Jntre	eated exis	ting imperv	rious, HSG A							
0.	000	98 l	Jntre	Intreated existing impervious, HSG C									
0.	025	98 l	Jntre	Intreated existing impervious, HSG D									
0.	000	98 E	Exist	ting imperv	vious to be	treated as offset, HSG D							
0.	000	30 E	Exist	ting meado	ow, non-gra	azed, HSG A							
0.	000	71 E	Exist	ting meado	ow, non-gra	azed, HSG C							
0.	000	78 E	Exist	ting meado	ow, non-gra	azed, HSG D							
0.	000	30 E	Exist	ting Wood	s, Good, H	SG A							
0.	.000	70 E	Exist	ting Wood	s, Good, H	SG C							
0.	284	77 E	Exist	ting Wood	s, Good, H	SG D							
0.	.000	70 F	⊃rop	osed Woo	ds, Good,	HSG C							
0.	.000	77 F	⊃rop	osed Woo	ds, Good,	HSG D							
0.	.000	98 F	⊃rop	osed impe	ervious to b	e treated, HSG C							
0.	.000	98 F	⊃rop	osed impe	ervious to b	e treated, HSG D							
0.	.000	98 l	Jntre	eated prop	osed impe	rvious, HSG C							
0.	000	98 l	Jntre	eated prop	osed impe	rvious, HSG D							
	.000					ndow, non-grazed, HSG C							
	019					ndow, non-grazed, HSG D							
	.000					ndow to be treated, HSG C							
	.000					ndow to be treated, HSG D							
	.000				dow, ski tra								
	000				dow, ski tra								
	000				dow, ski lift								
0.	.000	78 F	⊃rop	osed mea	dow, ski lift	t, HSG D							
0.	328	79 V	Neig	ghted Aver	age								
0.	303	ç	92.3	8% Pervio	us Area								
0.	025	7	7.62	% Impervi	ous Area								
Tc	Length		ре	Velocity	Capacity	Description							
(min)	(feet) (ft	/ft)	(ft/sec)	(cfs)								
10.8	50	0.16	00	0.08		Sheet Flow,							
						Woods: Dense underbrush n= 0.800 P2= 2.40"							
8.0	50	0.16	00	1.00		Shallow Concentrated Flow,							
						Forest w/Heavy Litter Kv= 2.5 fps							
0.2	125	5 0.05	500	11.00	32.99	Trap/Vee/Rect Channel Flow,							
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
						n= 0.022							
11.8	225	5 Tota	al										

Summary for Subcatchment 97S: WS 23

Runoff = 0.94 cfs @ 12.00 hrs, Volume= 0.048 af, Depth= 1.56"

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Area	(ac) (ON De	escription								
0.	000	98 Ur	treated exis	ting imperv	rious, HSG A						
0.	000	98 Ur									
0.	039	98 Untreated existing impervious, HSG D									
			isting imper	vious to be	treated as offset, HSG D						
			isting mead	ow, non-gra	azed, HSG A						
					azed, HSG C						
					azed, HSG D						
			isting Wood								
			isting Wood								
			isting Wood								
			oposed Woo								
			oposed Woo								
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					adow, non-grazed, HSG C						
					adow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
			oposed mea								
			oposed mea	•	·						
			oposed mea								
			oposed mea	•	I, NOG D						
			eighted Ave								
	331		.46% Pervio								
0.	039	10	.54% Imper	vious Area							
Tc	Length	Slop	e Velocity	Capacity	Description						
(min)	(feet)			(cfs)	'						
7.6	100	0.140	0 0.22		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
0.6	102	0.140	0 2.62		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
8.2	202	Total									

Summary for Subcatchment 98S: WS 23A

Runoff = 2.40 cfs @ 11.93 hrs, Volume= 0.104 af, Depth= 1.77"

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Area	(ac)	CN	Desc	ription									
0	.000	98	Untre	Untreated existing impervious, HSG A									
0	.000	98	Untre	Jntreated existing impervious, HSG C									
0	.000	98	Untre	Untreated existing impervious, HSG D									
0	.000	98	Exist	ing imper	ious to be	treated as offset, HSG D							
0	.000	30	Exist	ing meado	ow, non-gra	azed, HSG A							
0	.000	71	Exist	ing meado	ow, non-gra	azed, HSG C							
0	.000	78	Exist	ing meado	ow, non-gra	azed, HSG D							
0	.000	30	Exist	ing Wood	s, Good, H	SG A							
0	.000	70	Exist	ing Wood	s, Good, H	SG C							
0	.000	77	Exist	ing Wood	s, Good, H	SG D							
0	.000	70	Prop	osed Woo	ds, Good,	HSG C							
0	.000	77	Prop	osed Woo	ds, Good,	HSG D							
	.000	98				e treated, HSG C							
	.159	98		osed impe	ervious to b	e treated, HSG D							
	.000	98				rvious, HSG C							
	.000	98				rvious, HSG D							
	.000	71			•	idow, non-grazed, HSG C							
	.000	78				idow, non-grazed, HSG D							
	.000	71			•	dow to be treated, HSG C							
	.543	78				dow to be treated, HSG D							
	.000	71			dow, ski tra								
	.000	78			dow, ski tra								
	.000	71			dow, ski lift								
	.000	78			dow, ski lift	t, HSG D							
	.702	83	_	hted Aver									
	.543			5% Pervio									
0	.159		22.6	5% Imper\	ious Area								
_					_								
Tc	Leng		Slope	Velocity	Capacity	Description							
<u>(min)</u>	(fee		(ft/ft)	(ft/sec)	(cfs)								
1.3	1	9 (0.4200	0.25		Sheet Flow,							
						Grass: Dense n= 0.240 P2= 2.40"							
8.0	21	7 (0.0800	4.44	13.31	Trap/Vee/Rect Channel Flow,							
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
						n= 0.069 Riprap, 6-inch							
0.7	8	89 C	0.0200	2.22	6.65	Trap/Vee/Rect Channel Flow,							
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
						n= 0.069 Riprap, 6-inch							
2.8	32	25 7	Γotal										

Summary for Subcatchment 99S: WS 23B

Runoff = 4.27 cfs @ 12.06 hrs, Volume= 0.266 af, Depth= 1.93"

Area (ac) CN Description

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	(uo) c	11 000	onpaon									
0.	000	98 Untr	eated exis	ting imperv	ious, HSG A							
0.	000	98 Untr	eated exis	ting imperv	ious, HSG C							
0.	.000	98 Untr	Jntreated existing impervious, HSG D									
0.	.000	98 Exis	Existing impervious to be treated as offset, HSG D									
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A							
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C							
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D							
0.	000	30 Exis	ting Wood	s, Good, H	SG A							
0.	.000	70 Exis	ting Wood	s, Good, H	SG C							
0.	142	77 Exis	ting Wood	s, Good, H	SG D							
0.			osed Woo	ds, Good, I	HSG C							
0.	.000	77 Prop	osed Woo	ds, Good, I	HSG D							
		98 Prop	osed impe	ervious to b	e treated, HSG C							
					e treated, HSG D							
					rvious, HSG C							
					rvious, HSG D							
					dow, non-grazed, HSG C							
					dow, non-grazed, HSG D							
					dow to be treated, HSG C							
				•	dow to be treated, HSG D							
				dow, ski tra								
				dow, ski tra								
				dow, ski lift								
				dow, ski lift	, HSG D							
			ghted Aver									
	045		4% Pervio									
0.	610	36.8	6% Imper	vious Area								
т.	1 41-	01	\	0	Description							
Tc	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	AL 4 TI							
7.2	100	0.1600	0.23		Sheet Flow,							
0.4	00	0.4000	4.00		Grass: Dense n= 0.240 P2= 2.40"							
0.4	22	0.1600	1.00		Shallow Concentrated Flow,							
0.4	470	0.4400	0.04		Forest w/Heavy Litter Kv= 2.5 fps							
3.1	173	0.1400	0.94		Shallow Concentrated Flow,							
2.4	166	0.4200	0.00		Forest w/Heavy Litter Kv= 2.5 fps							
3.1	166	0.1300	0.90		Shallow Concentrated Flow,							
40.0	101	Takal			Forest w/Heavy Litter Kv= 2.5 fps							
13.8	461	Total										

Summary for Subcatchment 100S: WS 24

Runoff = 21.69 cfs @ 12.13 hrs, Volume= 1.633 af, Depth= 1.42"

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 Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.506	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.568	71	Existing meadow, non-grazed, HSG C
6.423	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.073	70	Existing Woods, Good, HSG C
5.770	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.038	98	Untreated proposed impervious, HSG D
0.017	71	Proposed developed meadow, non-grazed, HSG C
0.357	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.027	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
 0.000	78	Proposed meadow, ski lift, HSG D
13.779	78	Weighted Average
13.235		96.05% Pervious Area
0.544		3.95% Impervious Area

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(1	Tc min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	7.4	100	0.1500	0.23	, ,	Sheet Flow,
						Grass: Dense n= 0.240 P2= 2.40"
	0.1	10	0.1500	2.71		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	4.4	210	0.1000	0.79		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.4	333	0.0900	14.75	44.26	
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	0.2	221	0.1100	16.31	48.94	
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	0.3	317	0.1100	16.31	48.94	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
		005	0.4400	40.40	55.04	n= 0.022
	0.3	305	0.1400	18.40	55.21	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
	0.2	244	0.1200	17.04	E1 11	n= 0.022
	0.2	24 1	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	0.1	130	0.2000	21.99	65.98	Trap/Vee/Rect Channel Flow,
	0.1	130	0.2000	21.99	05.90	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	0.2	224	0.1500	19.05	57.14	Trap/Vee/Rect Channel Flow,
	0.2	227	0.1000	10.00	07.14	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	2.1	118	0.1400	0.94		Shallow Concentrated Flow,
				0.0		Forest w/Heavy Litter Kv= 2.5 fps
	3.5	167	0.1000	0.79		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.1	89	0.1000	15.55	46.66	
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	0.1	105	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	19.4	2,578	Total			

Summary for Subcatchment 103S: WS 1-8

Runoff = 50.71 cfs @ 12.42 hrs, Volume= 6.506 af, Depth= 1.23"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.004	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.012	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
9.906	70	Existing Woods, Good, HSG C
17.781	77	Existing Woods, Good, HSG D
2.274	70	Proposed Woods, Good, HSG C
3.491	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.042	98	Untreated proposed impervious, HSG D
0.006	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
8.051	71	Proposed meadow, ski trail, HSG C
18.519	78	Proposed meadow, ski trail, HSG D
2.211	71	Proposed meadow, ski lift, HSG C
1.103	78	Proposed meadow, ski lift, HSG D
63.400	75	Weighted Average
63.354		99.93% Pervious Area
0.046		0.07% Impervious Area
		•

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	100	0.2900	0.29		Sheet Flow,
					Grass: Dense n= 0.240 P2= 2.40"
1.1	249	0.2900	3.77		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
2.9	274	0.3900	1.56		Shallow Concentrated Flow,
1 5	252	0.2200	4.00		Forest w/Heavy Litter Kv= 2.5 fps
1.5	353	0.3300	4.02		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.6	277	0.2500	7.84	23.52	• • • • • • • • • • • • • • • • • • •
0.0	211	0.2300	7.04	23.32	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.069 Riprap, 6-inch
5.7	374	0.1900	1.09		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.8	462	0.2800	1.32		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.3	579	0.3500	4.14		Shallow Concentrated Flow,
	004		4.40		Short Grass Pasture Kv= 7.0 fps
4.4	294	0.2000	1.12		Shallow Concentrated Flow,
10.3	620	0.1700	1.03		Forest w/Heavy Litter Kv= 2.5 fps
10.3	039	0.1700	1.03		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
0.6	363	0.1600	10.18	71.29	Trap/Vee/Rect Channel Flow,
0.0	000	0.1000	10.10	7 1.20	Bot.W=6.00' D=1.00' Z= 1.0 '/' Top.W=8.00'
					n= 0.050
1.3	806	0.1600	10.18	71.29	Trap/Vee/Rect Channel Flow,
					Bot.W=6.00' D=1.00' Z= 1.0 '/ Top.W=8.00'
					n= 0.050
42.2	4,770	Total			

Summary for Reach 6R: stream

Inflow Area = 24.822 ac, 24.69% Impervious, Inflow Depth = 1.56" for 10-Year event

Inflow = 17.48 cfs @ 12.08 hrs, Volume= 3.229 af

Outflow = 17.29 cfs @ 12.10 hrs, Volume= 3.229 af, Atten= 1%, Lag= 1.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 7.44 fps, Min. Travel Time= 0.6 min Avg. Velocity = 1.68 fps, Avg. Travel Time= 2.8 min

Peak Storage= 657 cf @ 12.09 hrs

Average Depth at Peak Storage= 0.64', Surface Width= 4.29' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 132.62 cfs

3.00' x 2.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 7.00' Length= 280.0' Slope= 0.1643 '/' Inlet Invert= 1,815.00', Outlet Invert= 1,769.00'

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Summary for Reach 8R: ditch to stream

Inflow Area = 16.590 ac, 25.90% Impervious, Inflow Depth = 1.67" for 10-Year event

Inflow = 13.16 cfs @ 12.05 hrs, Volume= 2.311 af

Outflow = 12.80 cfs @ 12.08 hrs, Volume= 2.311 af, Atten= 3%, Lag= 2.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 7.19 fps, Min. Travel Time= 1.1 min Avg. Velocity = 1.66 fps, Avg. Travel Time= 4.8 min

Peak Storage= 866 cf @ 12.06 hrs Average Depth at Peak Storage= 0.52', Surface Width= 4.04' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 144.00 cfs

3.00' x 2.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 7.00' Length= 475.0' Slope= 0.1937 '/' Inlet Invert= 1,910.00', Outlet Invert= 1,818.00'



Summary for Reach 9R: stream

Inflow Area = 48.906 ac, 9.82% Impervious, Inflow Depth = 1.24" for 10-Year event

Inflow = 31.08 cfs @ 12.38 hrs, Volume= 5.055 af

Outflow = 31.03 cfs @ 12.40 hrs, Volume= 5.055 af, Atten= 0%, Lag= 1.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 8.27 fps, Min. Travel Time= 0.7 min Avg. Velocity = 3.11 fps, Avg. Travel Time= 1.8 min

Peak Storage= 1,240 cf @ 12.38 hrs

Average Depth at Peak Storage= 0.86', Surface Width= 5.22' Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 139.42 cfs

3.50' x 2.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 7.50'

Length= 330.0' Slope= 0.1424 '/'

Inlet Invert= 1,787.00', Outlet Invert= 1,740.00'

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Summary for Reach 10R: stream

Inflow Area = 47.746 ac, 9.75% Impervious, Inflow Depth = 1.24" for 10-Year event

Inflow = 30.83 cfs @ 12.37 hrs, Volume= 4.942 af

Outflow = 30.80 cfs @ 12.38 hrs, Volume= 4.942 af, Atten= 0%, Lag= 0.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 8.79 fps, Min. Travel Time= 0.3 min

Avg. Velocity = 3.29 fps, Avg. Travel Time= 0.7 min

Peak Storage= 491 cf @ 12.37 hrs

Average Depth at Peak Storage= 0.81', Surface Width= 5.13'

Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 152.96 cfs

 $3.50' \times 2.00'$ deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 7.50'

Length= 140.0' Slope= 0.1714 '/'

Inlet Invert= 1,814.00', Outlet Invert= 1,790.00'



Summary for Reach 11R: stream

Inflow Area = 17.266 ac, 10.36% Impervious, Inflow Depth = 1.29" for 10-Year event

Inflow = 17.33 cfs @ 12.30 hrs, Volume= 1.861 af

Outflow = 17.26 cfs @ 12.32 hrs, Volume= 1.861 af, Atten= 0%, Lag= 1.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 7.90 fps, Min. Travel Time= 0.6 min Avg. Velocity = 2.73 fps, Avg. Travel Time= 1.8 min

Peak Storage= 657 cf @ 12.31 hrs

Average Depth at Peak Storage= 0.61', Surface Width= 4.21'

Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 145.10 cfs

Type II 24-hr 10-Year Rainfall=3.40" Printed 9/24/2021

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3.00' x 2.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 7.00' Length= 300.0' Slope= 0.1967 '/' Inlet Invert= 1,910.00', Outlet Invert= 1,851.00'



Summary for Reach 14R: drinage ditch

Inflow Area = 3.366 ac, 24.54% Impervious, Inflow Depth = 1.42" for 10-Year event

Inflow = 6.65 cfs @ 12.05 hrs, Volume= 0.399 af

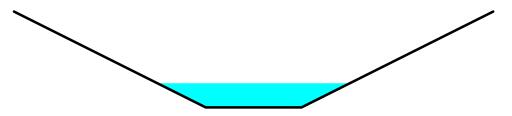
Outflow = 6.29 cfs @ 12.12 hrs, Volume= 0.399 af, Atten= 5%, Lag= 4.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 4.18 fps, Min. Travel Time= 2.4 min Avg. Velocity = 1.26 fps, Avg. Travel Time= 8.0 min

Peak Storage= 912 cf @ 12.08 hrs Average Depth at Peak Storage= 0.51', Surface Width= 4.02' Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 106.43 cfs

2.00' x 2.00' deep channel, n= 0.069 Side Slope Z-value= 2.0 '/' Top Width= 10.00' Length= 600.0' Slope= 0.1500 '/' Inlet Invert= 2,060.00', Outlet Invert= 1,970.00'



Summary for Reach 17R: stream

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 1.41" for 10-Year event

Inflow = 21.80 cfs @ 12.14 hrs, Volume= 2.112 af

Outflow = 21.68 cfs @ 12.15 hrs, Volume= 2.112 af, Atten= 1%, Lag= 0.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 8.94 fps, Min. Travel Time= 0.4 min Avg. Velocity = 1.13 fps, Avg. Travel Time= 3.0 min

Peak Storage= 497 cf @ 12.14 hrs

Average Depth at Peak Storage= 0.54', Surface Width= 5.07' Bank-Full Depth= 1.00' Flow Area= 5.0 sf, Capacity= 62.68 cfs

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4.00' x 1.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 6.00' Length= 204.0' Slope= 0.2696 '/' Inlet Invert= 1,711.00', Outlet Invert= 1,656.00'



Summary for Reach 19R: stream

Inflow Area = 16.549 ac, 14.99% Impervious, Inflow Depth = 1.41" for 10-Year event

Inflow = 21.53 cfs @ 12.12 hrs, Volume= 1.947 af

Outflow = 21.27 cfs @ 12.14 hrs, Volume= 1.947 af, Atten= 1%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Max. Velocity= 9.01 fps, Min. Travel Time= 0.5 min

Avg. Velocity = 1.31 fps, Avg. Travel Time= 3.2 min

Peak Storage= 602 cf @ 12.13 hrs Average Depth at Peak Storage= 0.84', Surface Width= 3.67' Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 63.50 cfs

2.00' x 1.50' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 5.00' Length= 254.0' Slope= 0.2087 '/' Inlet Invert= 1,770.00', Outlet Invert= 1,717.00'



Summary for Reach 23R: ditch

Inflow Area = 11.506 ac, 14.02% Impervious, Inflow Depth = 1.47" for 10-Year event

Inflow = 14.52 cfs @ 12.11 hrs, Volume= 1.410 af

Outflow = 14.23 cfs @ 12.15 hrs, Volume= 1.410 af, Atten= 2%, Lag= 2.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 7.11 fps, Min. Travel Time= 1.3 min Avg. Velocity = 0.97 fps, Avg. Travel Time= 9.5 min

Type II 24-hr 10-Year Rainfall=3.40" Printed 9/24/2021

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Peak Storage= 1,110 cf @ 12.13 hrs

Average Depth at Peak Storage= 0.57', Surface Width= 4.13' Bank-Full Depth= 1.00' Flow Area= 4.0 sf, Capacity= 38.44 cfs

 $3.00' \times 1.00'$ deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 5.00'

Length= 550.0' Slope= 0.1727 '/'

Inlet Invert= 1,945.00', Outlet Invert= 1,850.00'



Summary for Reach 24R: ditch

Inflow Area = 8.652 ac, 9.56% Impervious, Inflow Depth = 1.40" for 10-Year event

Inflow = 12.50 cfs @ 12.09 hrs, Volume= 1.010 af

Outflow = 12.27 cfs @ 12.13 hrs, Volume= 1.010 af, Atten= 2%, Lag= 2.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity = 5.73 fps, Min. Travel Time = 1.2 min Avg. Velocity = 1.81 fps, Avg. Travel Time = 3.7 min

Peak Storage= 871 cf @ 12.11 hrs

Average Depth at Peak Storage= 0.54', Surface Width= 5.14' Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 163.35 cfs

3.00' x 2.00' deep channel, n= 0.069 Riprap, 6-inch

Side Slope Z-value = 2.0 '/' Top Width = 11.00'

Length= 400.0' Slope= 0.2375 '/'

Inlet Invert= 2,015.00', Outlet Invert= 1,920.00'



Summary for Reach 29R: stream

Inflow Area = 68.800 ac, 9.84% Impervious, Inflow Depth = 1.34" for 10-Year event

Inflow = 62.76 cfs @ 12.14 hrs, Volume= 7.674 af

Outflow = 61.60 cfs @ 12.18 hrs, Volume= 7.674 af, Atten= 2%, Lag= 2.2 min

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Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Max. Velocity= 8.87 fps, Min. Travel Time= 1.2 min Avg. Velocity = 1.24 fps, Avg. Travel Time= 8.6 min

Peak Storage= 4,553 cf @ 12.16 hrs Average Depth at Peak Storage= 1.55', Surface Width= 6.10' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 100.62 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders Side Slope Z-value= 1.0 '/' Top Width= 7.00' Length= 645.0' Slope= 0.0946 '/' Inlet Invert= 1,596.00', Outlet Invert= 1,535.00'



Summary for Reach 32R: dead end stream

Inflow Area = 36.642 ac, 8.77% Impervious, Inflow Depth = 1.29" for 10-Year event

Inflow = 24.74 cfs @ 12.12 hrs, Volume= 3.949 af

Outflow = 24.32 cfs @ 12.17 hrs, Volume= 3.949 af, Atten= 2%, Lag= 3.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Max. Velocity= 8.20 fps, Min. Travel Time= 1.6 min Avg. Velocity = 1.43 fps, Avg. Travel Time= 9.0 min

Peak Storage= 2,298 cf @ 12.14 hrs Average Depth at Peak Storage= 0.79', Surface Width= 4.58' Bank-Full Depth= 1.50' Flow Area= 6.8 sf, Capacity= 76.81 cfs

3.00' x 1.50' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 6.00' Length= 770.0' Slope= 0.1610 '/' Inlet Invert= 1,760.00', Outlet Invert= 1,636.00'



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Summary for Reach 34R: stream

Inflow Area = 30.406 ac, 6.66% Impervious, Inflow Depth = 1.22" for 10-Year event

Inflow = 19.26 cfs @ 12.47 hrs, Volume= 3.094 af

Outflow = 19.23 cfs @ 12.49 hrs, Volume= 3.094 af, Atten= 0%, Lag= 1.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 7.41 fps, Min. Travel Time= 0.8 min Avg. Velocity = 2.39 fps, Avg. Travel Time= 2.6 min

Peak Storage= 961 cf @ 12.48 hrs

Average Depth at Peak Storage= 0.70', Surface Width= 4.40' Bank-Full Depth= 1.50' Flow Area= 6.8 sf, Capacity= 73.80 cfs

 $3.00' \times 1.50'$ deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 6.00'

Length= 370.0' Slope= 0.1486 '/'

Inlet Invert= 1,815.00', Outlet Invert= 1,760.00'



Summary for Reach 35R: flow in wetland

Inflow Area = 24.244 ac, 4.80% Impervious, Inflow Depth = 1.13" for 10-Year event

Inflow = 15.90 cfs @ 12.43 hrs, Volume= 2.273 af

Outflow = 15.70 cfs @ 12.53 hrs, Volume= 2.273 af, Atten= 1%, Lag= 6.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 2.63 fps, Min. Travel Time= 3.8 min Avg. Velocity = 0.75 fps, Avg. Travel Time= 13.4 min

Peak Storage= 3,589 cf @ 12.47 hrs

Average Depth at Peak Storage= 0.48', Surface Width= 12.96' Bank-Full Depth= 1.00' Flow Area= 13.0 sf, Capacity= 53.58 cfs

12.00' x 1.00' deep channel, n= 0.100 Very weedy reaches w/pools

Side Slope Z-value = 1.0 '/' Top Width = 14.00'

Length= 600.0' Slope= 0.0917 '/'

Inlet Invert= 2,080.00', Outlet Invert= 2,025.00'

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Summary for Reach 39R: stream

Inflow Area = 2.899 ac, 24.25% Impervious, Inflow Depth = 1.74" for 10-Year event

Inflow = 3.44 cfs @ 12.11 hrs, Volume= 0.421 af

Outflow = 3.18 cfs @ 12.25 hrs, Volume= 0.421 af, Atten= 8%, Lag= 8.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity = 3.78 fps, Min. Travel Time = 4.9 min Avg. Velocity = 0.92 fps, Avg. Travel Time = 19.8 min

Peak Storage= 936 cf @ 12.17 hrs

Average Depth at Peak Storage= 0.20', Surface Width= 4.41' Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 161.10 cfs

4.00' x 2.00' deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 8.00'

Length= 1,100.0' Slope= 0.1527 '/'

Inlet Invert= 1,780.00', Outlet Invert= 1,612.00'



Summary for Reach 40R: stream

Inflow Area = 58.284 ac, 2.15% Impervious, Inflow Depth = 1.29" for 10-Year event

Inflow = 42.51 cfs @ 12.44 hrs, Volume= 6.277 af

Outflow = 42.19 cfs @ 12.49 hrs, Volume= 6.277 af, Atten= 1%, Lag= 3.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 7.36 fps, Min. Travel Time= 1.7 min Avg. Velocity = 1.95 fps, Avg. Travel Time= 6.6 min

Peak Storage= 4,432 cf @ 12.46 hrs

Average Depth at Peak Storage= 0.84', Surface Width= 7.68'

Bank-Full Depth= 2.00' Flow Area= 16.0 sf, Capacity= 186.92 cfs

6.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 10.00'

Length= 770.0' Slope= 0.1013 '/'

Inlet Invert= 1,563.00', Outlet Invert= 1,485.00'

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Summary for Reach 42R: stream

Inflow Area = 37.607 ac, 3.33% Impervious, Inflow Depth = 1.29" for 10-Year event

Inflow = 37.51 cfs @ 12.32 hrs, Volume= 4.049 af

Outflow = 36.24 cfs @ 12.46 hrs, Volume= 4.049 af, Atten= 3%, Lag= 8.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 8.55 fps, Min. Travel Time= 4.8 min Avg. Velocity = 1.95 fps, Avg. Travel Time= 20.9 min

Peak Storage= 10,381 cf @ 12.38 hrs

Average Depth at Peak Storage= 0.74', Surface Width= 6.48' Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 60.47 cfs

5.00' x 1.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 2,440.0' Slope= 0.1639 '/'

Inlet Invert= 1,973.00', Outlet Invert= 1,573.00'

Summary for Reach 45R: flow in wetland

Inflow Area = 26.451 ac, 1.62% Impervious, Inflow Depth = 1.23" for 10-Year event

Inflow = 27.88 cfs @ 12.24 hrs, Volume= 2.715 af

Outflow = 26.58 cfs @ 12.38 hrs, Volume= 2.715 af, Atten= 5%, Lag= 8.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 4.24 fps, Min. Travel Time= 4.7 min Avg. Velocity = 1.02 fps, Avg. Travel Time= 19.5 min

Peak Storage= 7,582 cf @ 12.30 hrs

Average Depth at Peak Storage= 0.83', Surface Width= 9.30' Bank-Full Depth= 1.00' Flow Area= 8.0 sf, Capacity= 37.72 cfs

6.00' x 1.00' deep channel, n= 0.100 Very weedy reaches w/pools

Side Slope Z-value= 2.0 '/' Top Width= 10.00'

Length= 1,200.0' Slope= 0.1442 '/'

Inlet Invert= 2,160.00', Outlet Invert= 1,987.00'

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Summary for Reach 102R: stream

Inflow Area = 321.351 ac, 5.57% Impervious, Inflow Depth > 1.28" for 10-Year event

Inflow = 200.76 cfs @ 12.47 hrs, Volume= 34.343 af

Outflow = 200.05 cfs @ 12.51 hrs, Volume= 34.341 af, Atten= 0%, Lag= 2.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 8.70 fps, Min. Travel Time= 1.7 min Avg. Velocity = 1.18 fps, Avg. Travel Time= 12.6 min

Peak Storage= 20,495 cf @ 12.49 hrs

Average Depth at Peak Storage= 1.68', Surface Width= 15.37' Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 883.89 cfs

12.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 20.00'

Length= 890.0' Slope= 0.0562 '/'

Inlet Invert= 1,480.00', Outlet Invert= 1,430.00'



Summary for Reach 103R: stream

Inflow Area = 118.865 ac, 0.17% Impervious, Inflow Depth = 1.23" for 10-Year event

Inflow = 98.98 cfs @ 12.40 hrs, Volume= 12.168 af

Outflow = 98.71 cfs @ 12.41 hrs, Volume= 12.168 af, Atten= 0%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 8.46 fps, Min. Travel Time= 0.5 min

Avg. Velocity = 2.53 fps, Avg. Travel Time= 1.8 min

Peak Storage= 3,215 cf @ 12.40 hrs

Average Depth at Peak Storage= 1.26', Surface Width= 10.52' Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 440.61 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 275.0' Slope= 0.0800 '/'

Inlet Invert= 1,502.00', Outlet Invert= 1,480.00'

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Summary for Reach 104R: stream

Inflow Area = 190.718 ac, 9.01% Impervious, Inflow Depth > 1.31" for 10-Year event

Inflow = 104.21 cfs @ 12.56 hrs, Volume= 20.761 af

Outflow = 103.99 cfs @ 12.59 hrs, Volume= 20.760 af, Atten= 0%, Lag= 1.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 9.30 fps, Min. Travel Time= 0.9 min Avg. Velocity = 1.37 fps, Avg. Travel Time= 6.0 min

Peak Storage= 5,539 cf @ 12.57 hrs Average Depth at Peak Storage= 1.21', Surface Width= 10.43' Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 495.10 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 495.0' Slope= 0.1010 '/'

Inlet Invert= 1,530.00', Outlet Invert= 1,480.00'



Summary for Reach 108R: stream

Inflow Area = 31.149 ac, 0.22% Impervious, Inflow Depth = 1.17" for 10-Year event

Inflow = 27.78 cfs @ 12.31 hrs, Volume= 3.041 af

Outflow = 26.82 cfs @ 12.45 hrs, Volume= 3.041 af, Atten= 3%, Lag= 8.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 6.53 fps, Min. Travel Time= 5.0 min Avg. Velocity = 1.89 fps, Avg. Travel Time= 17.3 min

Peak Storage= 8,122 cf @ 12.37 hrs

Average Depth at Peak Storage= 0.49', Surface Width= 8.97'

Bank-Full Depth= 2.00' Flow Area= 20.0 sf, Capacity= 291.19 cfs

8.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 12.00'

Length= 1,968.0' Slope= 0.1443 '/'

Inlet Invert= 1,810.00', Outlet Invert= 1,526.00'

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Summary for Reach 110R: stream

Inflow Area = 156.700 ac, 6.38% Impervious, Inflow Depth = 1.23" for 10-Year event

Inflow = 94.62 cfs @ 12.55 hrs, Volume= 16.100 af

Outflow = 94.28 cfs @ 12.60 hrs, Volume= 16.100 af, Atten= 0%, Lag= 3.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 10.81 fps, Min. Travel Time= 1.8 min Avg. Velocity = 1.57 fps, Avg. Travel Time= 12.5 min

Peak Storage= 10,271 cf @ 12.57 hrs

Average Depth at Peak Storage= 1.21', Surface Width= 8.42' Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 465.00 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 12.00'

Length= 1,175.0' Slope= 0.1464 '/'

Inlet Invert= 1,714.00', Outlet Invert= 1,542.00'



Summary for Reach 111R: upperstream

Inflow Area = 13.616 ac, 5.02% Impervious, Inflow Depth = 1.27" for 10-Year event

Inflow = 8.99 cfs @ 12.42 hrs, Volume= 1.445 af

Outflow = 8.93 cfs @ 12.48 hrs, Volume= 1.445 af, Atten= 1%, Lag= 3.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 6.21 fps, Min. Travel Time= 1.8 min Avg. Velocity = 1.38 fps, Avg. Travel Time= 8.3 min

Peak Storage= 991 cf @ 12.44 hrs

Average Depth at Peak Storage= 0.42', Surface Width= 3.84' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 139.11 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 686.0' Slope= 0.1808 '/'

Inlet Invert= 2,074.00', Outlet Invert= 1,950.00'



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Summary for Reach 112R: stream

Inflow Area = 22.637 ac, 11.13% Impervious, Inflow Depth = 1.34" for 10-Year event

Inflow = 20.78 cfs @ 11.97 hrs, Volume= 2.535 af

Outflow = 19.45 cfs @ 12.05 hrs, Volume= 2.535 af, Atten= 6%, Lag= 4.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity = 7.11 fps, Min. Travel Time = 2.9 min Avg. Velocity = 1.33 fps, Avg. Travel Time = 15.4 min

Peak Storage= 3,381 cf @ 12.00 hrs

Average Depth at Peak Storage= 0.50', Surface Width= 6.00' Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 210.11 cfs

5.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 9.00'

Length= 1,230.0' Slope= 0.1772 '/'

Inlet Invert= 1,950.00', Outlet Invert= 1,732.00'



Summary for Reach 113R: ditch

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 1.41" for 10-Year event

Inflow = 21.68 cfs @ 12.15 hrs, Volume= 2.112 af

Outflow = 21.38 cfs @ 12.17 hrs, Volume= 2.112 af, Atten= 1%, Lag= 1.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 4.79 fps, Min. Travel Time= 0.9 min Avg. Velocity = 0.72 fps, Avg. Travel Time= 5.7 min

Peak Storage= 1,107 cf @ 12.16 hrs

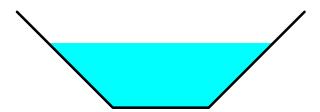
Average Depth at Peak Storage= 1.35', Surface Width= 4.70' Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 46.73 cfs

2.00' x 2.00' deep channel, n= 0.069

Side Slope Z-value= 1.0 '/' Top Width= 6.00'

Length= 245.0' Slope= 0.0694 '/'

Inlet Invert= 1,656.00', Outlet Invert= 1,639.00'



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Summary for Reach 114R: dead end channel

Inflow Area = 26.607 ac, 23.56% Impervious, Inflow Depth = 1.53" for 10-Year event

Inflow = 17.93 cfs @ 12.09 hrs, Volume= 3.394 af

Outflow = 17.68 cfs @ 12.11 hrs, Volume= 3.394 af, Atten= 1%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 9.95 fps, Min. Travel Time= 0.7 min Avg. Velocity = 2.30 fps, Avg. Travel Time= 2.9 min

Peak Storage= 719 cf @ 12.10 hrs

Average Depth at Peak Storage= 0.51', Surface Width= 4.02' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 200.37 cfs

3.00' x 2.00' deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 400.0' Slope= 0.3750 '/'

Inlet Invert= 1,750.00', Outlet Invert= 1,600.00'



Summary for Reach 115R: stream

Inflow Area = 41.779 ac, 7.74% Impervious, Inflow Depth = 1.22" for 10-Year event

Inflow = 27.39 cfs @ 12.42 hrs, Volume= 4.254 af

Outflow = 27.35 cfs @ 12.43 hrs, Volume= 4.254 af, Atten= 0%, Lag= 0.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 8.35 fps, Min. Travel Time= 0.3 min

Avg. Velocity = 3.23 fps, Avg. Travel Time= 0.7 min

Peak Storage= 426 cf @ 12.42 hrs

Average Depth at Peak Storage= 0.85', Surface Width= 4.70' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 128.34 cfs

 $3.00' \times 2.00'$ deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 130.0' Slope= 0.1538 '/'

Inlet Invert= 1,844.00', Outlet Invert= 1,824.00'



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Summary for Pond 2P: Culvert 7C Driveway

Inflow Area = 48.906 ac, 9.82% Impervious, Inflow Depth = 1.24" for 10-Year event

Inflow = 31.08 cfs @ 12.38 hrs, Volume= 5.055 af

Primary = 31.08 cfs @ 12.38 hrs, Volume= 5.055 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 3P: Culvert 7B -Road A

Inflow Area = 47.746 ac, 9.75% Impervious, Inflow Depth = 1.24" for 10-Year event

Inflow = 30.83 cfs @ 12.37 hrs, Volume= 4.942 af

Primary = 30.83 cfs @ 12.37 hrs, Volume= 4.942 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 4P: trail culvert

Inflow Area = 5.237 ac, 26.12% Impervious, Inflow Depth = 1.42" for 10-Year event

Inflow = 8.15 cfs @ 12.13 hrs, Volume= 0.620 af

Primary = 8.15 cfs @ 12.13 hrs, Volume= 0.620 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 5P: Culvert 7A

Inflow Area = 41.779 ac, 7.74% Impervious, Inflow Depth = 1.22" for 10-Year event

Inflow = 27.39 cfs @ 12.42 hrs, Volume= 4.254 af

Primary = 27.39 cfs @ 12.42 hrs, Volume= 4.254 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 7P: Culvert 6A

Inflow Area = 24.822 ac, 24.69% Impervious, Inflow Depth = 1.56" for 10-Year event

Inflow = 17.48 cfs @ 12.08 hrs, Volume= 3.229 af

Primary = 17.48 cfs @ 12.08 hrs, Volume= 3.229 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 8P: new 36

Inflow Area = 13.779 ac, 3.95% Impervious, Inflow Depth = 1.42" for 10-Year event

Inflow = 21.69 cfs @ 12.13 hrs, Volume= 1.633 af

Outflow = 21.69 cfs @ 12.13 hrs, Volume= 1.633 af, Atten= 0%, Lag= 0.0 min

Primary = 21.69 cfs @ 12.13 hrs, Volume= 1.633 af

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Peak Elev= 1.88' @ 12.13 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	36.0" Round Culvert
			L= 70.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 0.00' / -2.80' S= 0.0400 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=21.40 cfs @ 12.13 hrs HW=1.86' (Free Discharge)
—1=Culvert (Inlet Controls 21.40 cfs @ 4.65 fps)

Summary for Pond 9P: new 36

Inflow Area = 27.913 ac, 22.52% Impervious, Inflow Depth = 1.52" for 10-Year event

Inflow = 19.76 cfs @ 12.10 hrs, Volume= 3.535 af

Outflow = 19.76 cfs @ 12.10 hrs, Volume= 3.535 af, Atten= 0%, Lag= 0.0 min

Primary = 19.76 cfs @ 12.10 hrs, Volume= 3.535 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1.78' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	36.0" Round Culvert
			L= 70.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 0.00' / -1.05' S= 0.0150 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=19.72 cfs @ 12.10 hrs HW=1.77' (Free Discharge)
—1=Culvert (Inlet Controls 19.72 cfs @ 4.53 fps)

Summary for Pond 10P: new 36

Inflow Area = 20.993 ac, 12.16% Impervious, Inflow Depth = 1.41" for 10-Year event

Inflow = 25.13 cfs @ 12.14 hrs, Volume= 2.473 af

Outflow = 25.13 cfs @ 12.14 hrs, Volume= 2.473 af, Atten= 0%, Lag= 0.0 min

Primary = 25.13 cfs @ 12.14 hrs, Volume= 2.473 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Peak Elev= 2.05' @ 12.14 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	36.0" Round Culvert
			L= 70.0' CMP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 0.00' / -2.10' S= 0.0300 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=25.01 cfs @ 12.14 hrs HW=2.05' (Free Discharge) 1=Culvert (Inlet Controls 25.01 cfs @ 4.87 fps)

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Summary for Pond 12P: new 48

Inflow Area = 75.057 ac, 9.07% Impervious, Inflow Depth = 1.34" for 10-Year event

Inflow = 70.14 cfs @ 12.16 hrs, Volume= 8.382 af

Outflow = 70.14 cfs @ 12.16 hrs, Volume= 8.382 af, Atten= 0%, Lag= 0.0 min

Primary = 70.14 cfs @ 12.16 hrs, Volume= 8.382 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 3.35' @ 12.16 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	48.0" Round Culvert
			L= 50.0' CMP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 0.00' / -2.80' S= 0.0560 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=69.56 cfs @ 12.16 hrs HW=3.33' (Free Discharge)
—1=Culvert (Inlet Controls 69.56 cfs @ 6.22 fps)

Summary for Pond 13P: Culvert 6B

Inflow Area = 26.607 ac, 23.56% Impervious, Inflow Depth = 1.53" for 10-Year event

Inflow = 17.93 cfs @ 12.09 hrs, Volume= 3.394 af

Primary = 17.93 cfs @ 12.09 hrs, Volume= 3.394 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 16P: trunk line from condos

Inflow Area = 5.094 ac, 51.81% Impervious, Inflow Depth = 2.08" for 10-Year event

Inflow = 18.33 cfs @ 11.94 hrs, Volume= 0.884 af

Outflow = 18.33 cfs @ 11.94 hrs, Volume= 0.884 af, Atten= 0%, Lag= 0.0 min

Primary = 18.33 cfs @ 11.94 hrs, Volume= 0.884 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,714.21' @ 11.94 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,712.00'	30.0" Round Culvert
			L= 700.0' CPP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 1,712.00' / 1,694.00' S= 0.0257 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=17.94 cfs @ 11.94 hrs HW=1,714.17' (Free Discharge) 1=Culvert (Inlet Controls 17.94 cfs @ 3.96 fps)

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Summary for Pond 18P: Culvert 5 - Trail

Inflow Area = 17.941 ac. 14.03% Impervious. Inflow Depth = 1.41" for 10-Year event

Inflow 21.80 cfs @ 12.14 hrs, Volume= 2.112 af

21.80 cfs @ 12.14 hrs, Volume= 2.112 af, Atten= 0%, Lag= 0.0 min Primary

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 20P: road culvert

Inflow Area = 16.549 ac, 14.99% Impervious, Inflow Depth = 1.41" for 10-Year event

21.53 cfs @ 12.12 hrs, Volume= Inflow = 1.947 af

21.53 cfs @ 12.12 hrs, Volume= Outflow 1.947 af, Atten= 0%, Lag= 0.0 min =

Primary 21.53 cfs @ 12.12 hrs, Volume= 1.947 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,775.28' @ 12.12 hrs

Device Routing Invert Outlet Devices 72.0" Round Culvert w/ 24.0" inside fill #1 Primary 1.774.00

L= 50.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,772.00' / 1,771.00' S= 0.0200 '/' Cc= 0.900

n= 0.025 Corrugated metal, Flow Area= 20.02 sf

Primary OutFlow Max=21.19 cfs @ 12.12 hrs HW=1,775.26' (Free Discharge)

-1=Culvert (Inlet Controls 21.19 cfs @ 2.84 fps)

Summary for Pond 21P: Pipe Down Slope

Inflow Area = 14.576 ac, 16.67% Impervious, Inflow Depth = 1.46" for 10-Year event

Inflow 19.10 cfs @ 12.13 hrs, Volume= 1.773 af

Outflow 19.11 cfs @ 12.13 hrs, Volume= 1.773 af, Atten= 0%, Lag= 0.1 min

19.11 cfs @ 12.13 hrs, Volume= 1.773 af Primary

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Peak Elev= 1,813.77' @ 12.13 hrs Surf.Area= 0.001 ac Storage= 0.002 af

Plug-Flow detention time= 0.3 min calculated for 1.773 af (100% of inflow)

Center-of-Mass det. time= 0.3 min (1,029.2 - 1,028.9)

Volume Invert Avail.Storage Storage Description #1 1.812.00' 0.016 af **8.00'D x 14.00'H Vertical Cone/Cylinder**

Device Routing Invert Outlet Devices 48.0" Round Culvert #1 Primary 1,812.00'

L= 100.0' CMP, projecting, no headwall, Ke= 0.900

Inlet / Outlet Invert= 1,812.00' / 1,780.00' S= 0.3200 '/' Cc= 0.900

n= 0.025 Corrugated metal, Flow Area= 12.57 sf

Primary OutFlow Max=18.87 cfs @ 12.13 hrs HW=1,813.75' (Free Discharge) **1=Culvert** (Inlet Controls 18.87 cfs @ 3.56 fps)

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Summary for Pond 22P: Pipe Down Slope

Inflow Area = 14.576 ac, 16.67% Impervious, Inflow Depth = 1.46" for 10-Year event

Inflow = 19.10 cfs @ 12.13 hrs, Volume= 1.773 af

Outflow = 19.10 cfs @ 12.13 hrs, Volume= 1.773 af, Atten= 0%, Lag= 0.0 min

Primary = 19.10 cfs @ 12.13 hrs, Volume= 1.773 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,823.55' @ 12.13 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,822.00'	48.0" Round Culvert
			L= 100.0' CMP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 1,822.00' / 1,818.00' S= 0.0400 '/' Cc= 0.900
			n= 0.025 Corrugated metal, Flow Area= 12.57 sf

Primary OutFlow Max=18.88 cfs @ 12.13 hrs HW=1,823.54' (Free Discharge) 1=Culvert (Inlet Controls 18.88 cfs @ 4.23 fps)

Summary for Pond 25P: road culvert

Inflow Area = 5.782 ac, 8.73% Impervious, Inflow Depth = 1.36" for 10-Year event

Inflow = 7.98 cfs @ 12.16 hrs, Volume= 0.654 af

Primary = 7.98 cfs @ 12.16 hrs, Volume= 0.654 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 26P: road culvert

Inflow Area = 2.870 ac, 11.22% Impervious, Inflow Depth = 1.49" for 10-Year event

Inflow = 6.07 cfs @ 12.04 hrs, Volume= 0.356 af

Primary = 6.07 cfs @ 12.04 hrs, Volume= 0.356 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 28P: road culvert

Inflow Area = 11.506 ac, 14.02% Impervious, Inflow Depth = 1.47" for 10-Year event

Inflow = 14.52 cfs @ 12.11 hrs, Volume= 1.410 af

Primary = 14.52 cfs @ 12.11 hrs, Volume= 1.410 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 30P: Culvert 4 -Trail

Inflow Area = 15.570 ac, 7.12% Impervious, Inflow Depth = 1.38" for 10-Year event

Inflow = 20.51 cfs @ 12.14 hrs, Volume= 1.786 af

Primary = 20.51 cfs @ 12.14 hrs, Volume= 1.786 af, Atten= 0%, Lag= 0.0 min

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Summary for Pond 31P: Trail Culvert

Inflow Area = 49.423 ac, 9.08% Impervious, Inflow Depth = 1.29" for 10-Year event

Inflow = 41.67 cfs @ 12.14 hrs, Volume= 5.296 af

Outflow = 41.67 cfs (a) 12.14 hrs, Volume= 5.296 af, Atten= 0%, Lag= 0.0 min

Primary = 41.67 cfs @ 12.14 hrs, Volume= 5.296 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,628.33' @ 12.14 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,626.00'	72.0" Round Culvert
			L= 300.0' CMP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 1,626.00' / 1,610.00' S= 0.0533 '/' Cc= 0.900
			n= 0.025 Corrugated metal, Flow Area= 28.27 sf

Primary OutFlow Max=41.45 cfs @ 12.14 hrs HW=1,628.32' (Free Discharge)
1=Culvert (Inlet Controls 41.45 cfs @ 4.10 fps)

Summary for Pond 33P: Culvert 12 -Road

Inflow Area = 36.642 ac, 8.77% Impervious, Inflow Depth = 1.29" for 10-Year event

Inflow = 24.74 cfs @ 12.12 hrs, Volume= 3.949 af

Primary = 24.74 cfs @ 12.12 hrs, Volume= 3.949 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 36P: trail culvert

Inflow Area = 24.244 ac, 4.80% Impervious, Inflow Depth = 1.13" for 10-Year event

Inflow = 15.90 cfs @ 12.43 hrs, Volume= 2.273 af

Primary = 15.90 cfs @ 12.43 hrs, Volume= 2.273 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 37P: Road E Culvert

Inflow Area = 27.875 ac, 6.15% Impervious, Inflow Depth = 1.19" for 10-Year event

Inflow = 18.23 cfs @ 12.49 hrs, Volume= 2.765 af

Primary = 18.23 cfs @ 12.49 hrs, Volume= 2.765 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 38P: Road A Culvert

Inflow Area = 21.776 ac, 3.80% Impervious, Inflow Depth = 1.11" for 10-Year event

Inflow = 15.27 cfs @ 12.43 hrs, Volume= 2.020 af

Primary = 15.27 cfs @ 12.43 hrs, Volume= 2.020 af, Atten= 0%, Lag= 0.0 min

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Summary for Pond 41P: Culvert 3 - Trail 3

Inflow Area = 58.284 ac, 2.15% Impervious, Inflow Depth = 1.29" for 10-Year event

Inflow = 42.51 cfs @ 12.44 hrs, Volume= 6.277 af

Primary = 42.51 cfs @ 12.44 hrs, Volume= 6.277 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 43P: Culvert 11 -Trail 3

Inflow Area = 35.358 ac, 2.93% Impervious, Inflow Depth = 1.28" for 10-Year event

Inflow = 34.92 cfs @ 12.33 hrs, Volume= 3.770 af

Primary = 34.92 cfs @ 12.33 hrs, Volume= 3.770 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 44P: Culvert 13 -Road A

Inflow Area = 26.451 ac, 1.62% Impervious, Inflow Depth = 1.23" for 10-Year event

Inflow = 27.88 cfs @ 12.24 hrs, Volume= 2.715 af

Primary = 27.88 cfs @ 12.24 hrs, Volume= 2.715 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 105P: Culvert 1 - Trail

Inflow Area = 180.600 ac, 7.35% Impervious, Inflow Depth = 1.28" for 10-Year event

Inflow = 103.48 cfs @ 12.57 hrs, Volume= 19.248 af

Primary = 103.48 cfs @ 12.57 hrs, Volume= 19.248 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 106P: Culvert 2- Trail 2

Inflow Area = 118.865 ac, 0.17% Impervious, Inflow Depth = 1.23" for 10-Year event

Inflow = 98.98 cfs @ 12.40 hrs, Volume= 12.168 af

Primary = 98.98 cfs @ 12.40 hrs, Volume= 12.168 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 107P: Culvert 10 -Trail 2

Inflow Area = 31.149 ac, 0.22% Impervious, Inflow Depth = 1.17" for 10-Year event

Inflow = 27.78 cfs @ 12.31 hrs, Volume= 3.041 af

Primary = 27.78 cfs @ 12.31 hrs, Volume= 3.041 af, Atten= 0%, Lag= 0.0 min

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Summary for Pond 108P: new 36

Inflow Area = 50.264 ac, 9.71% Impervious, Inflow Depth = 1.25" for 10-Year event

Inflow = 31.43 cfs @ 12.39 hrs, Volume= 5.216 af

Outflow = 31.43 cfs @ 12.39 hrs, Volume= 5.216 af, Atten= 0%, Lag= 0.0 min

Primary = 31.43 cfs @ 12.39 hrs, Volume= 5.216 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,742.37' @ 12.39 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,740.00'	36.0" Round Culvert
			L= 70.0' CMP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 1,740.00' / 1,738.00' S= 0.0286 '/' Cc= 0.900
			n= 0.025 Corrugated metal, Flow Area= 7.07 sf

Primary OutFlow Max=31.39 cfs @ 12.39 hrs HW=1,742.37' (Free Discharge) 1=Culvert (Inlet Controls 31.39 cfs @ 5.24 fps)

Summary for Pond 109P: Culvert 9-Trail Crossing

Inflow Area = 87.844 ac, 2.93% Impervious, Inflow Depth = 1.17" for 10-Year event

Inflow = 49.40 cfs @ 12.53 hrs, Volume= 8.560 af

Primary = 49.40 cfs @ 12.53 hrs, Volume= 8.560 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond P1: Condos Complex Wet Pond

Inflow Are	a =	11.937 ac, 34.04% Impervious, Inflow Depth = 1.79" for 10-Year event	
Inflow	=	31.00 cfs @ 11.95 hrs, Volume= 1.782 af	
Outflow	=	2.41 cfs @ 12.80 hrs, Volume= 1.774 af, Atten= 92%, Lag= 51.2	2 min

Primary = 1.65 cfs @ 12.80 hrs, Volume= 1.624 af Secondary = 0.76 cfs @ 12.80 hrs, Volume= 0.150 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,684.00' Surf.Area= 29,057 sf Storage= 54,189 cf

Peak Elev= 1,686.11' @ 12.80 hrs Surf.Area= 38,467 sf Storage= 98,108 cf (43,919 cf above start)

Plug-Flow detention time= 2,340.5 min calculated for 0.529 af (30% of inflow)

Center-of-Mass det. time= 951.6 min (1,775.1 - 823.6)

<u>Volum</u>	e Invert	Avail.Storage	Storage Description
#1	1,678.00'	54,189 cf	Permanent Pool (Irregular)Listed below (Recalc)
#2	1,684.00'	66,450 cf	CPv (Irregular)Listed below (Recalc)

120,639 cf Total Available Storage

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Elevation		Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area	
(fee		(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)	
1,678.0		4,365	481.7	0	0	4,365	
1,679.0		5,839	500.5	5,084	5,084	5,914	
1,680.0		7,369	519.4	6,589	11,673	7,531	
1,681.0		8,954	538.2	8,149	19,822	9,199	
1,682.0		10,598	557.1	9,764	29,586	10,935	
1,683.0		12,297	575.9	11,437	41,023	12,722	
1,684.0	00	14,053	594.8	13,165	54,189	14,578	
Elevation	on	Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area	
(fee	et)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)	
1,684.0	00	15,004	752.2	0	0	15,004	
1,685.0	00	21,703	791.7	18,251	18,251	19,918	
1,686.0	00	24,167	734.9	22,924	41,175	26,860	
1,687.0	00	26,400	753.8	25,275	66,450	29,220	
Device	Routing	Inv	ert Outlet	Devices			
#1	Primary	1,681.	00' 24.0"	Round Culvert			
	,	,	L= 100	0.0' CPP, projecti	ng, no headwall, K	e= 0.900	
						S= 0.0100 '/' Cc= 0.900)
					interior, Flow Area		
#2	Device 1	1,684.				d to weir flow at low hea	ads
#3	Device 1	,		Horiz. Orifice/Gra			
		,		d to weir flow at lov	w heads		
#4	Seconda	ry 1,686.			Broad-Crested R	ectangular Weir	
		, , , , , , ,				20 1.40 1.60 1.80 2.00)
				3.00 3.50 4.00 4.			-
						2.68 2.66 2.64 2.64	
					66 2.68 2.70 2.74		

Primary OutFlow Max=1.62 cfs @ 12.80 hrs HW=1,686.11' (Free Discharge)

1=Culvert (Passes 1.62 cfs of 24.22 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.45 cfs @ 6.75 fps)

-3=Orifice/Grate (Weir Controls 1.17 cfs @ 1.10 fps)

Secondary OutFlow Max=0.74 cfs @ 12.80 hrs HW=1,686.11' (Free Discharge) 4=Broad-Crested Rectangular Weir (Weir Controls 0.74 cfs @ 0.82 fps)

Summary for Pond P10: Lot R31 Soil Filter

Inflow Area =	8.042 ac, 30.75% Impervious, Inflow	Depth = 1.84" for 10-Year event
Inflow =	15.67 cfs @ 11.99 hrs, Volume=	1.234 af
Outflow =	1.02 cfs @ 13.81 hrs, Volume=	1.234 af, Atten= 94%, Lag= 108.7 min
Primary =	1.02 cfs @ 13.81 hrs, Volume=	1.234 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,975.33' Surf.Area= 4,651 sf Storage= 614 cf

Peak Elev= 1,982.09' @ 13.81 hrs Surf.Area= 9,133 sf Storage= 33,404 cf (32,790 cf above start)

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Plug-Flow detention time= 834.5 min calculated for 1.220 af (99% of inflow)

Center-of-Mass det. time= 815.2 min (1,648.2 - 833.0)

Volume	Invert	Avail.St	torage	Storage D	escription		
#1	1,975.00'	53,	120 cf	Custom S	Stage Data (Irregu	ılar) Listed below (F	Recalc)
Elevatio	n Su	ırf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area
(fee	t)	(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,975.0	0	4,651	326.9	0.0	0	0	4,651
1,976.5		4,651	326.9	40.0	2,791	2,791	5,141
1,978.0	0	4,651	326.9	40.0	2,791	5,581	5,632
1,980.0	0	6,726	364.6	100.0	11,313	16,895	7,818
1,982.0	0	9,027	402.3	100.0	15,697	32,591	10,244
1,984.0	0	11,554	440.0	100.0	20,529	53,120	12,907
Device	Routing	Inver	t Outle	et Devices			
#1	Primary	1,974.00	24.0	" Round (Culvert		
	-		L= 1	00.0' CPF	, projecting, no he	eadwall, Ke= 0.900)
						972.00' S= 0.020	
				,		Flow Area= 3.14 sf	
#2	Device 1	1,975.33	_			00 Limited to weir	flow at low heads
#3	Device 2	1,975.00			iltration over Sur		
#4	Device 1	1,982.00			rifice/Grate C= 0	.600	
					flow at low heads		
#5	Secondary	1,982.70				Crested Rectangu	
						1.00 1.20 1.40	1.60 1.80 2.00
					4.00 4.50 5.00		00 004 004
						2.69 2.68 2.68 2.	66 2.64 2.64
			2.64	2.65 2.65	5 2.66 2.66 2.68	2.70 2.74	

Primary OutFlow Max=0.97 cfs @ 13.81 hrs HW=1,982.09' (Free Discharge)

-1=Culvert (Passes 0.97 cfs of 31.80 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.42 cfs @ 12.42 fps)
-3=Exfiltration (Passes 0.42 cfs of 0.63 cfs potential flow)

-4=Orifice/Grate (Weir Controls 0.55 cfs @ 0.98 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,975.33' (Free Discharge) -5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11: Parking Lot G Wet Pond

Inflow Area =	8.304 ac, 46.98% Impervious, Inflow	Depth = 2.08" for 10-Year event
Inflow =	30.46 cfs @ 11.95 hrs, Volume=	1.442 af
Outflow =	0.67 cfs @ 15.44 hrs, Volume=	1.308 af, Atten= 98%, Lag= 209.9 min
Primary =	0.67 cfs @ 15.44 hrs, Volume=	1.308 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,534.10' Surf.Area= 24,527 sf Storage= 51,257 cf

Peak Elev= 1,536.66' @ 15.44 hrs Surf.Area= 32,464 sf Storage= 97,649 cf (46,392 cf above start)

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Plug-Flow detention time= 5,892.1 min calculated for 0.131 af (9% of inflow) Center-of-Mass det. time= 2,217.6 min (3,029.3 - 811.7)

Volume	Invert	Avail	.Storage	Storage Descripti	on		
#1	1,527.00'	4	9,963 cf	Permanent Pool	(Irregular)Listed b	pelow (Recalc)	
#2	1,534.00'	7	7,661 cf		isted below (Recal		
		12	27,624 cf	Total Available St	orage		
Elevatior		urf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area	
(feet)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)	
1,527.00		3,398	312.2	0	0	3,398	
1,528.00		4,364	331.3	3,871	3,871	4,428	
1,529.00		5,386	350.1	4,866	8,737	5,502	
1,530.00		6,465	369.0	5,917	14,654	6,642	
1,531.00		7,600	387.8	7,025	21,679	7,836	
1,532.00		8,792	406.7	8,189	29,868	9,095	
1,533.00		10,040	425.5	9,409	39,277	10,408	
1,534.00)	11,345	444.4	10,686	49,963	11,787	
□laatia	. 0.	.	Danina	las Otana	O Ot	\A/a4 A	
Elevation		urf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area	
(feet		(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)	
1,534.00		12,700	621.7	0	0	12,700	
1,535.00		17,927	661.0	15,239	15,239	16,762	
1,536.00		19,949	587.1	18,929	34,168	24,129	
1,537.00		21,739	606.0	20,838	55,005	26,020	
1,538.00)	23,585	624.8	22,656	77,661	27,961	
Device	Routing	Inv	ert Outle	et Devices			
#1	Primary	1,530.	00' 36.0	" Round Culvert			_
	•	,	L= 1	00.0' CPP, project	ting, no headwall,	Ke= 0.900	
			Inlet	/ Outlet Invert= 1,5	530.00' / 1,528.00'	S= 0.0200 '/' Cc= 0.900	
			n= 0	.011 PVC, smooth	n interior, Flow Are	ea= 7.07 sf	
#2	Device 1	1,534.	10' 2.0"	Vert. Orifice/Grat	e C= 0.600 Limi	ted to weir flow at low heads	;
#3	Device 1	1,536.		" Horiz. Orifice/G			
				ted to weir flow at I			
#4	Secondary	1,536.				Rectangular Weir	
						1.20 1.40 1.60 1.80 2.00	
				3.00 3.50 4.00			
						58 2.68 2.66 2.64 2.64	
			2.64	2.65 2.65 2.66	2.66 2.68 2.70 2.	./4	

Primary OutFlow Max=0.60 cfs @ 15.44 hrs HW=1,536.66' (Free Discharge)

_1=Culvert (Passes 0.60 cfs of 61.03 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.17 cfs @ 7.58 fps)

-3=Orifice/Grate (Weir Controls 0.44 cfs @ 0.79 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,534.10' (Free Discharge) 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

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Summary for Pond P12: Drop-off Parking Lot Soil Filter

Inflow Area = 4.069 ac, 25.29% Impervious, Inflow Depth = 1.80" for 10-Year event

Inflow 8.89 cfs @ 11.94 hrs, Volume= 0.610 af

0.20 cfs @ 18.38 hrs, Volume= Outflow 0.610 af, Atten= 98%, Lag= 386.8 min

Primary 0.20 cfs @ 18.38 hrs, Volume= 0.610 af 0.00 cfs @ 0.00 hrs, Volume= Secondary = 0.000 af

Routing by Stor-Ind method. Time Span= 0.00-120.00 hrs. dt= 0.05 hrs.

Starting Elev= 1,466.33' Surf.Area= 3,179 sf Storage= 420 cf

Peak Elev= 1,472.51' @ 18.38 hrs Surf.Area= 6,333 sf Storage= 19,985 cf (19,566 cf above start)

Plug-Flow detention time= 1,488.1 min calculated for 0.600 af (98% of inflow)

Center-of-Mass det. time= 1,453.1 min (2,284.0 - 830.9)

Volume	Invert	Avail.S	Storage	Storage	Description				
#1	1,466.00'	30	,846 cf	Custom	Stage Data (Irregi	ular)Listed below (I	Recalc)		
Clayatia	n Cu	rf Araa	Dorino	Voido	Ina Ctara	Cum Store	Mot Area		
Elevatio		rf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area		
(feet	,	(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)		
1,466.0		3,179	247.1	0.0	0	0	3,179		
1,467.5		3,179	247.1	40.0	1,907	1,907	3,550		
1,469.0	0	3,179	247.1	40.0	1,907	3,815	3,920		
1,470.0	0	3,948	265.9	100.0	3,557	7,371	4,730		
1,472.0	0	5,657	303.6	100.0	9,554	16,925	6,530		
1,473.0	0	7,016	329.2	100.0	6,324	23,250	7,858		
1,474.0	0	8,192	360.5	100.0	7,596	30,846	9,610		
Device	Routing	Inve	rt Outle	et Device	S				
#1	Primary	1,466.0	0' 18.0	" Round	I Outlet Culvert				
	J		L= 1	L= 100.0' CPP, projecting, no headwall, Ke= 0.900					
	Inlet / Outlet Invert= 1,466.00' / 1,464.00' S= 0.0200 '/' Cc= 0.900								
	n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf								
#2	Device 1	1,466.3			ifice/Grate C= 0.60				
#3	Device 2	1,466.0			xfiltration over Sui				
#4	Device 1	1,472.5			Orifice/Grate C= 0				
		,,			ir flow at low heads				
#5	Secondary	1,473.0			.0' breadth Broad-	Crested Rectangi	ılar Weir		
,, 0	o o o o i i a a i j	., 0.0			0.20 0.40 0.60 0.80				
				` ,	50 4.00 4.50 5.00		1.00 1.00 2.00		
					n) 2.43 2.54 2.70		66 2 64 2 64		
					65 2.66 2.66 2.68		.00 2.04 2.04		
			2.07	2.00 2.0	2.00 2.00 2.00	2.10 2.17			

Primary OutFlow Max=0.17 cfs @ 18.38 hrs HW=1,472.51' (Free Discharge)

-1=Outlet Culvert (Passes 0.17 cfs of 16.12 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.15 cfs @ 11.91 fps)
-3=Exfiltration (Passes 0.15 cfs of 0.44 cfs potential flow)

-4=Orifice/Grate (Weir Controls 0.02 cfs @ 0.34 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,466.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

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Summary for Pond P13: Parking Lot H Wet Pond

Inflow Area = 2.921 ac, 40.05% Impervious, Inflow Depth = 2.01" for 10-Year event

Inflow = 11.17 cfs @ 11.93 hrs, Volume= 0.489 af

Outflow = 0.14 cfs @ 18.96 hrs, Volume= 0.487 af, Atten= 99%, Lag= 422.1 min

Primary = 0.14 cfs @ 18.96 hrs, Volume= 0.487 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,567.00' Surf.Area= 11,858 sf Storage= 14,847 cf

Peak Elev= 1,568.77' @ 18.96 hrs Surf.Area= 16,824 sf Storage= 30,559 cf (15,712 cf above start)

Plug-Flow detention time= 2,851.2 min calculated for 0.147 af (30% of inflow)

Center-of-Mass det. time= 1,399.2 min (2,212.7 - 813.5)

Volume	Invert	Avail.S	Storage	Storage Description	on		
#1	1,561.00'	14	1,847 cf	Permanent Pool	(Irregular)Listed b	below (Recalc)	_
#2	1,567.00'		,200 cf	CPv (Irregular)Li	sted below (Recal	c) ` ´	
		45	5,047 cf	Total Available St	orage	•	
					J		
Elevatio	n Su	rf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area	
(feet	t)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)	
1,561.0	0	495	188.6	0	0	495	
1,566.0	0	4,031	282.9	9,898	9,898	4,224	
1,567.0	0	5,929	467.9	4,950	14,847	15,284	
	_						
Elevatio		rf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area	
(feet	<i>'</i>	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)	
1,567.0		5,929	467.9	0	0	5,929	
1,568.0		9,766	479.1	7,768	7,768	6,897	
1,569.0		11,246	454.1	10,497	18,265	8,811	
1,570.0	0	12,637	473.0	11,935	30,200	10,280	
Device	Routing	lnvo	ort Outl	et Devices			
		Inve					
#1	Primary	1,560.0		" Round Culvert	المسام مما مما	V 0 000	
				00.0' CPP, projec			o= 0 000
				/ Outlet Invert= 1,5 .011 PVC, smooth			C- 0.900
#2	Device 1	1,567.0		Vert. Orifice/Grat			low heads
#2 #3	Device 1	1,568.8	-	" Horiz. Orifice/G		ited to well flow at	low neads
πΟ	DCVICC 1	1,000.0		ted to weir flow at le			
#4	Secondary	1,569.0		long x 8.0' bread		l Rectangular We	eir
" .	2 2 0 0 1 1 daily	1,000.0		d (feet) 0.20 0.40			
				3.00 3.50 4.00 4		0 1.10 1.00 1	.00 2.00
				1110 0.0000	0.00 0.00		

Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64

2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

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Primary OutFlow Max=0.14 cfs @ 18.96 hrs HW=1,568.77' (Free Discharge)

_1=Culvert (Passes 0.14 cfs of 72.45 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.14 cfs @ 6.25 fps)

-3=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,567.00' (Free Discharge) 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P14: Timbers 1-7 Wet Pond

Inflow Area = 7.622 ac, 23.79% Impervious, Inflow Depth = 1.49" for 10-Year event

Inflow = 22.18 cfs @ 11.93 hrs, Volume= 0.946 af

Outflow = 1.47 cfs @ 12.61 hrs, Volume= 0.941 af, Atten= 93%, Lag= 40.6 min

Primary = 1.47 cfs @ 12.61 hrs, Volume= 0.941 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,721.00' Surf.Area= 19,738 sf Storage= 31,523 cf

Peak Elev= 1,722.56' @ 12.61 hrs Surf.Area= 26,164 sf Storage= 52,722 cf (21,199 cf above start)

Plug-Flow detention time= 2,525.8 min calculated for 0.218 af (23% of inflow)

Center-of-Mass det. time= 857.0 min (1,693.2 - 836.2)

Volume	Invert	Avail.Storage	Storage Description
#1	1,715.00'	31,523 cf	Permanent Pool (Irregular)Listed below (Recalc)
#2	1,721.00'	46,722 cf	CPv (Irregular)Listed below (Recalc)

70,245 Ci Tolai Avallable Sibrayi	78,245 cf	Total Available Sto	rage
-----------------------------------	-----------	---------------------	------

	•	0,2 .0 0.	rotar, tranable ote.	age	
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,715.00	1,909	325.0	0	0	1,909
1,716.00	2,912	343.8	2,393	2,393	2,964
1,717.00	3,972	362.7	3,428	5,821	4,084
1,718.00	5,088	381.6	4,519	10,340	5,263
1,719.00	6,261	400.4	5,664	16,004	6,497
1,720.00	7,490	419.3	6,866	22,870	7,796
1,721.00	9,869	603.5	8,652	31,523	22,797
levation	Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area
(feet)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,721.00	9,869	603.5	0	0	9,869
1,722.00	15,216	645.8	12,446	12,446	14,120
1,723.00	17,184	596.9	16,190	28,636	18,996
1,724.00	19,003	615.8	18,086	46,722	20,918

Device Routing Invert Outlet Devices

#1 Primary 1,714.00' **36.0" Round Culvert**

L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,714.00' / 1,713.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 7.07 sf

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#2	Device 1	1,721.00'	2.5" Vert. Orifice/Grate - Gravel Bench Underdrain C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,722.40'	24.0" Horiz. Orifice/Grate C= 0.600
			Limited to weir flow at low heads
#4	Secondary	1,722.80'	8.0' long x 8.0' breadth Broad-Crested Rectangular Weir
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00
			2.50 3.00 3.50 4.00 4.50 5.00 5.50
			Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64
			2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=1.46 cfs @ 12.61 hrs HW=1,722.56' (Free Discharge)

-1=Culvert (Passes 1.46 cfs of 71.37 cfs potential flow)

2=Orifice/Grate - Gravel Bench Underdrain(Orifice Controls 0.20 cfs @ 5.80 fps)

-3=Orifice/Grate (Weir Controls 1.26 cfs @ 1.29 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,721.00' (Free Discharge)
4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P16: Timbers 10 Soil Filter

Inflow Area =	0.660 ac, 35.00% Impervious, Inflow I	Depth = 1.70" for 10-Year event
Inflow =	2.18 cfs @ 11.93 hrs, Volume=	0.094 af
Outflow =	0.14 cfs @ 12.64 hrs, Volume=	0.096 af, Atten= 94%, Lag= 42.8 min
Primary =	0.14 cfs @ 12.64 hrs, Volume=	0.096 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 2,085.33' Surf.Area= 877 sf Storage= 116 cf Peak Elev= 2,088.72' @ 12.64 hrs Surf.Area= 1,266 sf Storage= 1,815 cf (1,699 cf above start)

Plug-Flow detention time= (not calculated: outflow precedes inflow) Center-of-Mass det. time= 114.4 min (940.9 - 826.5)

Volume	Inv	ert Avai	il.Storage	Storage D	escription		
#1	#1 2,085.00' 9,992 cf Custom Stage Data (Irregular) Listed below (Recalc)						
Elevatio		Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
2,085.0	00	877	192.0	0.0	0	0	877
2,086.5	50	877	192.0	40.0	526	526	1,165
2,088.0	00	877	192.0	40.0	526	1,052	1,453
2,090.0	00	2,142	229.7	100.0	2,926	3,979	2,787
2,092.0	00	3,964	290.6	100.0	6,013	9,992	5,361
Device	Routing	In	vert Outle	et Devices			
#1	Primary	2,085	5.00' 24.0	" Round (Outlet Culvert		
	•	•	L= 1	00.0' CPF	, projecting, no h	eadwall, Ke= 0.90	00
			Inlet	/ Outlet Inv	/ert= 2,085.00' / 2	2,084.00' S= 0.01	00 '/' Cc= 0.900
			n= 0	.013, Flow	Area= 3.14 sf		
#2	Device '	1 2,085	5.33' 1.0"	Vert. Orifi	ce/Grate C= 0.6	00 Limited to we	ir flow at low heads
#3	Device '	1 2,085	5.00' 3.00	0 in/hr Exf	iltration over Su	rface area	

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#4	Device 1	2,091.40'	24.0" Horiz. Orifice/Grate C= 0.600
			Limited to weir flow at low heads
#5	Secondary	2,091.50'	6.0' long x 8.0' breadth Broad-Crested Rectangular Weir
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00
			2.50 3.00 3.50 4.00 4.50 5.00 5.50
			Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64
			2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.14 cfs @ 12.64 hrs HW=2,088.72' (Free Discharge)

-1=Outlet Culvert (Passes 0.14 cfs of 19.68 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.05 cfs @ 8.81 fps)

-3=Exfiltration (Exfiltration Controls 0.09 cfs)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=2,085.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P17: Timbers 11-14 Soil Filter

Inflow Area =	1.829 ac, 34.99% Impervious, Inflow	Depth = 1.93" for 10-Year event
Inflow =	6.18 cfs @ 11.96 hrs, Volume=	0.294 af
Outflow =	0.22 cfs @ 13.75 hrs, Volume=	0.294 af, Atten= 96%, Lag= 107.3 min
Primary =	0.22 cfs @ 13.75 hrs, Volume=	0.294 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 2,119.33' Surf.Area= 2,430 sf Storage= 321 cf Peak Elev= 2,123.72' @ 13.75 hrs Surf.Area= 3,752 sf Storage= 8,206 cf (7,885 cf above start)

Plug-Flow detention time= 752.1 min calculated for 0.287 af (97% of inflow) Center-of-Mass det. time= 714.0 min (1,533.7 - 819.8)

Volume	Inve	ert Avail.	Storage	Storage D	Description				
#1 2,119.00' 13,8		3,840 cf	Custom Stage Data (Irregular)Listed below (Recalc)						
Elevation	n	Surf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area		
(fee	t)	(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)		
2,119.0	00	2,430	238.8	0.0	0	0	2,430		
2,120.5	50	2,430	238.8	40.0	1,458	1,458	2,788		
2,122.0	00	2,430	238.8	40.0	1,458	2,916	3,146		
2,124.0	00	3,989	280.8	100.0	6,355	9,271	4,959		
2,125.0	00	5,174	303.4	100.0	4,569	13,840	6,050		
Device	Routing	Inve	ert Outle	et Devices					
#1	Primary	2,119.0	00' 24.0	" Round	Outlet Culvert				
			L= 1	00.0' CPI	P, projecting, no he	eadwall, Ke= 0.900)		
			Inlet	/ Outlet In	vert= 2,119.00' / 2	,117.00' S= 0.020	0 '/' Cc= 0.900		
			n= 0	.013, Flov	v Area= 3.14 sf				
#2	Device 1	2,119.3	33' 1.5"	Vert. Orif	ice/Grate C= 0.6	00 Limited to weir	flow at low heads		
#3	Device 2	2,119.0	00' 3.00	3.000 in/hr Exfiltration over Surface area					
#4	Device 1	2,123.7	70' 24.0	" Horiz. O	rifice/Grate C= 0	0.600			

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Limited to weir flow at low heads

#5 6.0' long x 8.0' breadth Broad-Crested Rectangular Weir Secondary 2.124.00'

Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00

2.50 3.00 3.50 4.00 4.50 5.00 5.50

Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64

2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.20 cfs @ 13.75 hrs HW=2,123.72' (Free Discharge)

-1=Outlet Culvert (Passes 0.20 cfs of 23.05 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.12 cfs @ 10.02 fps)

3=Exfiltration (Passes 0.12 cfs of 0.26 cfs potential flow)

-4=Orifice/Grate (Weir Controls 0.08 cfs @ 0.51 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=2,119.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P2: Townhomes 3-6 Soil Filter

Inflow Area = 3.212 ac, 25.50% Impervious, Inflow Depth = 1.42" for 10-Year event

Inflow 6.78 cfs @ 12.03 hrs, Volume= 0.381 af

Outflow = 0.18 cfs @ 16.29 hrs, Volume= 0.381 af, Atten= 97%, Lag= 256.1 min

Primary 0.18 cfs @ 16.29 hrs, Volume= 0.381 af 0.00 hrs, Volume= 0.00 cfs @ 0.000 af Secondary =

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,739.33' Surf.Area= 3,904 sf Storage= 515 cf

Peak Elev= 1,743.51' @ 16.29 hrs Surf.Area= 5,369 sf Storage= 11,668 cf (11,153 cf above start)

Plug-Flow detention time= 1,105.0 min calculated for 0.369 af (97% of inflow)

Center-of-Mass det. time= 1,051.2 min (1,898.0 - 846.8)

1.739.33

#2

#3

#4

Device 1

Device 2

Device 1

Volume	Inve	ert Avai	il.Storage	Storage	Description		
#1	1,739.0	00'	28,913 cf	Custon	n Stage Data (Irre	gular) Listed belov	v (Recalc)
Elevation (feet)		Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,739.00		3,904	312.1	0.0	0	0	3,904
1,740.50		3,904	312.1	40.0	2,342	2,342	4,372
1,742.00		3,904	312.1	40.0	2,342	4,685	4,840
1,744.00		5,890	349.8	100.0	9,726	14,411	6,933
1,746.00		8,703	412.7	100.0	14,502	28,913	10,826
	Routing			et Device			
#1 F	Primary	1,738			d Outlet Culvert		
L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,738.00' / 1,736.00' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf							200 '/' Cc= 0.900

1,739.00' 3.000 in/hr Exfiltration over Surface area 24.0" Horiz. Orifice/Grate C= 0.600 1.743.50'

1.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Limited to weir flow at low heads

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#5 Secondary 1,744.00' **4.0' long x 8.0' breadth Broad-Crested Rectangular Weir**

Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00

2.50 3.00 3.50 4.00 4.50 5.00 5.50

Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64

2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.15 cfs @ 16.29 hrs HW=1,743.51' (Free Discharge)

-1=Outlet Culvert (Passes 0.15 cfs of 25.37 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.12 cfs @ 9.77 fps)

3=Exfiltration (Passes 0.12 cfs of 0.37 cfs potential flow)

-4=Orifice/Grate (Weir Controls 0.03 cfs @ 0.37 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,739.33' (Free Discharge)

T-5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P3: Townhomes 1-2 Soil Filter

Inflow Area = 7.421 ac, 27.30% Impervious, Inflow Depth = 1.62" for 10-Year event

Inflow = 16.98 cfs @ 11.97 hrs, Volume= 1.003 af

Outflow = 0.34 cfs @ 18.42 hrs, Volume= 1.003 af, Atten= 98%, Lag= 386.7 min

Primary = 0.34 cfs @ 18.42 hrs, Volume= 1.003 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,751.33' Surf.Area= 5,240 sf Storage= 692 cf

Peak Elev= 1,757.60' @ 18.42 hrs Surf.Area= 9,239 sf Storage= 32,143 cf (31,452 cf above start)

Plug-Flow detention time= 1,340.8 min calculated for 0.987 af (98% of inflow)

Center-of-Mass det. time= 1,307.6 min (2,143.3 - 835.7)

Volume	Invert	Ava	il.Storage	Storage	Description		
#1	1,751.00'		57,886 cf	Custon	n Stage Data (Irre	gular) Listed belov	v (Recalc)
Elevation (feet)	Su	ırf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,751.00		5,240	336.6	0.0	0	0	5,240
1,752.50		5,240	336.6	40.0	3,144	3,144	5,745
1,754.00		5,240	336.6	40.0	3,144	6,288	6,250
1,756.00		7,373	374.3	100.0	12,552	18,840	8,498
1,758.00		9,731	412.0	100.0	17,050	35,890	10,984
1,760.00		12,316	449.7	100.0	21,996	57,886	13,709
Device F	Routing	In	vert Outle	et Device	es		
#1 F	Primary	1,750			d Outlet Culvert P, projecting, no he	eadwall Ke= 0.90	

#1	Primary	1,750.00'	18.0" Round Outlet Culvert
			L= 50.0' CPP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 1,750.00' / 1,748.00' S= 0.0400 '/' Cc= 0.900
			n= 0.013, Flow Area= 1.77 sf
#2	Device 1	1,751.33'	2.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,751.00'	3.000 in/hr Exfiltration over Surface area
#4	Device 1	1,757.50'	24.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,758.00'	4.0' long x 8.0' breadth Broad-Crested Rectangular Weir

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Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.33 cfs @ 18.42 hrs HW=1,757.60' (Free Discharge)

-1=Outlet Culvert (Passes 0.33 cfs of 17.59 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.26 cfs @ 11.98 fps)

3=Exfiltration (Passes 0.26 cfs of 0.64 cfs potential flow)

-4=Orifice/Grate (Orifice Controls 0.07 cfs @ 1.10 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,751.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P4: Bottom Road A Soil Filter

Inflow Area = 2.357 ac, 32.63% Impervious, Inflow Depth = 1.88" for 10-Year event Inflow 5.31 cfs @ 11.97 hrs, Volume= 0.370 af 0.16 cfs @ 16.08 hrs, Volume= Outflow 0.370 af, Atten= 97%, Lag= 246.3 min 0.16 cfs @ 16.08 hrs, Volume= 0.370 af Primary Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,761.33' Surf.Area= 802 sf Storage= 106 cf

Peak Elev= 1,768.57' @ 16.08 hrs Surf.Area= 3,557 sf Storage= 10,440 cf (10,334 cf above start)

Plug-Flow detention time= 756.2 min calculated for 0.368 af (99% of inflow)

Center-of-Mass det. time= 744.8 min (1,571.4 - 826.5)

Volume	Invert	Avail	.Storage	Storage I	Description				
#1 1,761.00' 16,287 cf			Custom Stage Data (Irregular)Listed below (Recalc)						
Elevatio		urf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area		
(fee	t)	(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)		
1,761.0	00	802	158.2	0.0	0	0	802		
1,762.5	50	802	158.2	40.0	481	481	1,039		
1,764.0	00	802	158.2	40.0	481	962	1,277		
1,766.0	00	1,864	195.9	100.0	2,592	3,555	2,396		
1,768.0	00	3,153	233.6	100.0	4,961	8,516	3,755		
1,770.0	00	4,668	271.3	100.0	7,772	16,287	5,351		
Device	Routing	lnv	ert Outle	et Devices	3				
#1	Primary	1,760.	00' 24.0	" Round	Outlet Culvert				
	,	,		00.0' CP	P, projecting, no h	eadwall, Ke= 0.90	0		
						,758.00' S= 0.020			
			n= 0	.013 Corr	rugated PE, smoot	h interior, Flow Are	ea= 3.14 sf		
#2	Device 1	1,761.	33' 1.5"	Vert. Orif	fice/Grate C= 0.6	00 Limited to wei	r flow at low heads		
#3	Device 2	1,761.	00' 3.00	0 in/hr Ex	filtration over Su	rface area			
#4	Device 1	1,768.	70' 24.0	24.0" Horiz. Orifice/Grate C= 0.600					
			Limit	ed to weir	flow at low heads				
#5	Secondary	1,768.	80' 4.0'	long x 8.	0' breadth Broad-	-Crested Rectange	ular Weir		

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Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.16 cfs @ 16.08 hrs HW=1,768.57' (Free Discharge)

-1=Outlet Culvert (Passes 0.16 cfs of 32.87 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.16 cfs @ 12.90 fps)

3=Exfiltration (Passes 0.16 cfs of 0.25 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,761.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P5: Roads A and F Soil Filter

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,831.33' Surf.Area= 3,217 sf Storage= 425 cf

Peak Elev= 1,836.60' @ 12.98 hrs Surf.Area= 5,562 sf Storage= 15,147 cf (14,722 cf above start)

Plug-Flow detention time= 958.6 min calculated for 0.607 af (98% of inflow)

Center-of-Mass det. time= 931.5 min (1,774.1 - 842.6)

Volume	Invert	Avail.S	torage	Storage [Description		
#1	1,831.00'	31	,588 cf	Custom	Stage Data (Irreg	ular) Listed below (I	Recalc)
Elevatio (fee		rf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,831.0	•	3,217	222.2	0.0	0	Ó	3,217
1,832.5		3,217	222.2	40.0	1,930	1,930	3,550
1,834.0	0	3,217	222.2	40.0	1,930	3,860	3,884
1,838.0	0	7,083	359.0	100.0	20,098	23,958	10,317
1,839.0	0	8,190	378.0	100.0	7,630	31,588	11,490
Device	Routing	Inve	rt Outle	et Devices			
#1	Primary	1,830.00	o' 24.0	" Round	Culvert		
			Inlet	/ Outlet In	vert= 1,830.00' / 1	eadwall, Ke= 0.900 ,828.00' S= 0.020 Flow Area= 3.14 sf	00'/' Cc= 0.900
#2	Device 1	1,831.33	3' 1.5"	Vert. Orif	ice/Grate C= 0.6	00 Limited to weir	flow at low heads
#3	Device 2	1,831.00	O' 3.00	0 in/hr Ex	filtration over Su	rface area	
#4	Device 1	1,836.50			rifice/Grate C= (flow at low heads		
#5	Secondary	1,836.80				Crested Rectang 0 1.00 1.20 1.40	

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2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.81 cfs @ 12.98 hrs HW=1,836.60' (Free Discharge)

-1=Culvert (Passes 0.81 cfs of 28.27 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.13 cfs @ 10.99 fps)

3=Exfiltration (Passes 0.13 cfs of 0.39 cfs potential flow)

-4=Orifice/Grate (Weir Controls 0.68 cfs @ 1.05 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,831.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P6: Lot R43 Soil Filter

Inflow Area = 1.084 ac, 37.36% Impervious, Inflow Depth = 1.93" for 10-Year event

Inflow = 3.02 cfs @ 12.03 hrs, Volume= 0.174 af

Outflow = 0.05 cfs @ 18.94 hrs, Volume= 0.174 af, Atten= 98%, Lag= 414.7 min

Primary = 0.05 cfs @ 18.94 hrs, Volume= 0.174 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,823.33' Surf.Area= 2,234 sf Storage= 295 cf

Peak Elev= 1,827.13' @ 18.94 hrs Surf.Area= 3,242 sf Storage= 5,758 cf (5,463 cf above start)

Plug-Flow detention time= 1,296.0 min calculated for 0.168 af (96% of inflow)

Avail.Storage Storage Description

Center-of-Mass det. time= 1,219.4 min (2,044.7 - 825.2)

Invert

Volume

#1	1,823.0	00'	8,962 cf	Custon	n Stage Data (Irregi	u lar) Listed below (I	Recalc)	
Elevation		Surf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area	
(feet)		(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)	
1,823.00		2,234	252.5	0.0	0	0	2,234	
1,824.5	50	2,234	252.5	40.0	1,340	1,340	2,613	
1,826.0	00	2,234	252.5	40.0	1,340	2,681	2,992	
1,828.0	00	4,145	312.6	100.0	6,281	8,962	5,753	
Device	Routing	In	vert Outle	et Device	es			
#1	Primary	1,823	.00' 15.0	0' 15.0" Round Outlet Culvert				
L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,823.00' / 1,822.00' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 1.23 sf					0 '/' Cc= 0.900			
#2 Device 1 1,823				rifice/Grate C= 0.60		flow at low heads		
#3 Device 2 1,823.		.00' 3.00	0 in/hr E	xfiltration over Sui	rface area			
#4	Device 1	1,827			Orifice/Grate C= 0	0.600		
			Limit	ed to we	eir flow at low heads			

Volume

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Primary OutFlow Max=0.05 cfs @ 18.94 hrs HW=1,827.13' (Free Discharge)

1=Outlet Culvert (Passes 0.05 cfs of 8.73 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.05 cfs @ 9.34 fps)

3=Exfiltration (Passes 0.05 cfs of 0.23 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Summary for Pond P7: Lot R42 Soil Filter

Inflow Area = 1.546 ac, 30.92% Impervious, Inflow Depth = 1.70" for 10-Year event
Inflow = 3.37 cfs @ 12.07 hrs, Volume= 0.219 af
Outflow = 0.08 cfs @ 17.94 hrs, Volume= 0.219 af, Atten= 98%, Lag= 351.9 min
Primary = 0.08 cfs @ 17.94 hrs, Volume= 0.219 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,878.33' Surf.Area= 1,972 sf Storage= 260 cf

Peak Elev= 1,882.76' @ 17.94 hrs Surf.Area= 3,012 sf Storage= 6,713 cf (6,453 cf above start)

Plug-Flow detention time= 988.8 min calculated for 0.213 af (97% of inflow)

Avail Storage Storage Description

Center-of-Mass det. time= 943.4 min (1,781.9 - 838.5)

Invert

volume	invert	Avaii.5	torage	Storage D	escription				
#1	1,878.00'	26,	005 cf	Custom S	tage Data (Irregu	ular)Listed below (I	Recalc)		
	•					0 0	NA		
Elevatio		rf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area		
(fee	t)	(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft <u>)</u>		
1,878.0	0	1,972	181.3	0.0	0	0	1,972		
1,879.5	0	1,972	181.3	40.0	1,183	1,183	2,244		
1,881.0	0	1,972	181.3	40.0	1,183	2,366	2,516		
1,883.0	0	3,173	219.0	100.0	5,098	7,464	3,782		
1,885.0	0	4,600	256.7	100.0	7,729	15,193	5,286		
1,887.0	0	6,254	294.4	100.0	10,812	26,005	7,029		
Device	Routing	Inver	t Outle	et Devices					
#1	Primary	1,878.00)' 24.0	" Round C	Outlet Culvert				
	•	•	L= 1	00.0' CPP	, projecting, no he	eadwall, Ke= 0.900)		
						876.00' S= 0.020			
					Area= 3.14 sf				
#2	Device 1	1,878.33	3' 1.2"	•					
#3	Device 2	1,878.00)' 3.00	0 in/hr Exfi	iltration over Sur	face area			
#4	Device 1	1,882.80)' 24.0	" Horiz. Or	ifice/Grate C= 0	.600			
		•	Limi	ted to weir f	low at low heads				
#5	#5 Secondary 1,883)' 6.0'	long x 8.0'	breadth Broad-	Crested Rectangu	ılar Weir		
	,	•				1.00 1.20 1.40			
					4.00 4.50 5.00				
						2.69 2.68 2.68 2	.66 2.64 2.64		
				` • ,	2.66 2.66 2.68				
			2.57	2.00 2.00		5			

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Primary OutFlow Max=0.08 cfs @ 17.94 hrs HW=1,882.76' (Free Discharge)

-1=Outlet Culvert (Passes 0.08 cfs of 23.15 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.08 cfs @ 10.07 fps)

3=Exfiltration (Passes 0.08 cfs of 0.21 cfs potential flow)

-4=Orifice/Grate (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,878.33' (Free Discharge) 5=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Summary for Pond P8: Lot R40 Soil Filter

Inflow Area = 1.823 ac, 26.66% Impervious, Inflow Depth = 1.63" for 10-Year event 4.06 cfs @ 12.05 hrs, Volume= Inflow 0.247 af 0.19 cfs @ 14.06 hrs, Volume= Outflow = 0.247 af, Atten= 95%, Lag= 120.6 min 0.19 cfs @ 14.06 hrs, Volume= Primary 0.247 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,924.33' Surf.Area= 2,235 sf Storage= 295 cf

Peak Elev= 1,928.63' @ 14.06 hrs Surf.Area= 3,454 sf Storage= 7,211 cf (6,916 cf above start)

Plug-Flow detention time= 1,288.3 min calculated for 0.240 af (97% of inflow)

Center-of-Mass det. time= 1,235.7 min (2,075.6 - 839.9)

Volume	Invert	Avail.S	Storage	Storage I	Description		
#1	1,924.00'	12	,739 cf	Custom	Stage Data (Irregu	ılar) Listed below (l	Recalc)
Elevatio	n Su	rf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area
(feet		(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,924.0		2,235	198.8	0.0	0	0	2,235
1,925.5		2,235	198.8	40.0	1,341	1,341	2,533
1,927.0		2,235	198.8	40.0	1,341	2,682	2,831
1,928.0		2,859	217.6	100.0	2,541	5,223	3,488
1,929.0		3,828	326.8	100.0	3,332	8,554	8,227
1,930.0		4,552	295.9	100.0	4,185	12,739	9,789
.,000.0		.,			.,	,. 00	٥,. ٥٥
Device	Routing	Inve	rt Outle	et Devices	3		
#1	Primary	1,924.0	0' 24.0	" Round	Outlet Culvert		
	•		L= 1	00.0' CP	P, projecting, no he	eadwall, Ke= 0.900	0
			Inlet	/ Outlet In	vert= 1,924.00' / 1,	922.00' S= 0.020	00'/' Cc= 0.900
			n= 0	.013, Flov	w Area= 3.14 sf		
#2	Device 1	1,924.3	3' 1.0"	Vert. Orif	ice/Grate C= 0.60	00 Limited to weir	flow at low heads
#3	Device 2	1,924.0			filtration over Sur		
#4	Device 1	1,928.6	0' 24.0	" Horiz. C	Orifice/Grate C= 0	.600	
				ed to weir	flow at low heads		
#5	Secondary	1,929.0			0' breadth Broad-0		
					20 0.40 0.60 0.80		1.60 1.80 2.00
					0 4.00 4.50 5.00		
) 2.43 2.54 2.70		.66 2.64 2.64
			2.64	2.65 2.6	5 2.66 2.66 2.68	2.70 2.74	

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Primary OutFlow Max=0.17 cfs @ 14.06 hrs HW=1,928.63' (Free Discharge)

-1=Outlet Culvert (Passes 0.17 cfs of 22.76 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.05 cfs @ 9.94 fps)

3=Exfiltration (Passes 0.05 cfs of 0.24 cfs potential flow)

-4=Orifice/Grate (Weir Controls 0.11 cfs @ 0.57 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,924.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P9: Lot R51 Soil Filter

Inflow Area = 1.248 ac, 21.63% Impervious, Inflow Depth = 1.53" for 10-Year event

Inflow 3.30 cfs @ 11.98 hrs, Volume= 0.160 af

0.11 cfs @ 14.11 hrs, Volume= Outflow = 0.160 af, Atten= 97%, Lag= 128.0 min

0.11 cfs @ 14.11 hrs, Volume= Primary 0.160 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,941.33' Surf.Area= 1,440 sf Storage= 190 cf

Peak Elev= 1,945.51' @ 14.11 hrs Surf.Area= 2,306 sf Storage= 4,530 cf (4,340 cf above start)

Plug-Flow detention time= 933.0 min calculated for 0.155 af (97% of inflow)

Center-of-Mass det. time= 889.0 min (1,724.3 - 835.3)

Volume	Inver	t Avail	.Storage	Storage	Description		
#1	1,941.00	' 2	22,064 cf	Custom	Stage Data (Irreg	ular)Listed below (Recalc)
Elevatio		surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,941.0	0	1,440	179.7	0.0	0	0	1,440
1,942.5	0	1,440	179.7	40.0	864	864	1,710
1,944.0	0	1,440	179.7	40.0	864	1,728	1,979
1,946.0	0	2,631	217.4	100.0	4,012	5,740	3,235
1,948.0	0	4,049	255.1	100.0	6,629	12,369	4,729
1,950.0	0	5,693	292.8	100.0	9,695	22,064	6,462
Device	Routing	ln۱	ert Outle	et Device	es		
#1	Primary	1,940.	00' 24.0	" Round	l Outlet Culvert		
			Inlet	/ Outlet I	PP, projecting, no he nvert= 1,940.00' / 1 ow Area= 3.14 sf		
#2	Device 1	1,941.	33' 1.0"	Vert. Or	ifice/Grate C= 0.6	00 Limited to weir	r flow at low heads
#3	Device 2	1,941.	00' 3.00	0 in/hr E	xfiltration over Su	rface area	
#4	Device 1	1,945.			Orifice/Grate C= 0 ir flow at low heads		
#5	Secondary	y 1,945.	Head	d (feet) C	.0' breadth Broad- 0.20 0.40 0.60 0.8 50 4.00 4.50 5.00	0 1.00 1.20 1.40	

2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64

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Primary OutFlow Max=0.07 cfs @ 14.11 hrs HW=1,945.51' (Free Discharge)

-1=Outlet Culvert (Passes 0.07 cfs of 25.36 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.05 cfs @ 9.79 fps)

3=Exfiltration (Passes 0.05 cfs of 0.16 cfs potential flow)

-4=Orifice/Grate (Weir Controls 0.02 cfs @ 0.32 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,941.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Link SP1:

Inflow Area = 327.994 ac. 5.46% Impervious, Inflow Depth > 1.28" for 10-Year event

Inflow 204.79 cfs @ 12.51 hrs, Volume= 35.092 af

204.79 cfs @ 12.51 hrs, Volume= 35.092 af, Atten= 0%, Lag= 0.0 min Primary

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP10:

Primary 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP11:

6.579 ac, 3.57% Impervious, Inflow Depth = 1.42" for 10-Year event Inflow Area =

Inflow 13.41 cfs @ 12.03 hrs, Volume= 0.780 af

13.41 cfs @ 12.03 hrs, Volume= 0.780 af, Atten= 0%, Lag= 0.0 min Primary

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP12:

20.993 ac, 12.16% Impervious, Inflow Depth = 1.41" for 10-Year event Inflow Area =

Inflow 25.13 cfs @ 12.14 hrs, Volume= 2.473 af

Primary 25.13 cfs @ 12.14 hrs, Volume= 2.473 af. Atten= 0%. Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP13:

12.275 ac, 33.70% Impervious, Inflow Depth > 1.78" for 10-Year event Inflow Area =

2.48 cfs @ 12.79 hrs, Volume= Inflow 1.822 af

Primary 2.48 cfs @ 12.79 hrs, Volume= 1.822 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP14:

Inflow Area = 1.238 ac, 3.31% Impervious, Inflow Depth = 1.42" for 10-Year event

Inflow = 2.17 cfs @ 12.09 hrs, Volume= 0.147 af

Primary = 2.17 cfs @ 12.09 hrs, Volume= 0.147 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP15:

Inflow Area = 27.913 ac, 22.52% Impervious, Inflow Depth = 1.52" for 10-Year event

Inflow = 19.76 cfs @ 12.10 hrs, Volume= 3.535 af

Primary = 19.76 cfs @ 12.10 hrs, Volume= 3.535 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP16:

Inflow Area = 1.173 ac, 3.15% Impervious, Inflow Depth = 1.23" for 10-Year event

Inflow = 1.73 cfs @ 12.10 hrs, Volume= 0.120 af

Primary = 1.73 cfs @ 12.10 hrs, Volume= 0.120 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP17:

Inflow Area = 4.548 ac, 20.07% Impervious, Inflow Depth = 1.40" for 10-Year event

Inflow = 3.61 cfs @ 11.94 hrs, Volume= 0.532 af

Primary = 3.61 cfs @ 11.94 hrs, Volume= 0.532 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP18:

Inflow Area = 0.186 ac, 11.29% Impervious, Inflow Depth = 1.49" for 10-Year event

Inflow = 0.52 cfs @ 11.95 hrs, Volume= 0.023 af

Primary = 0.52 cfs @ 11.95 hrs, Volume= 0.023 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP19:

Inflow Area = 0.648 ac, 3.70% Impervious, Inflow Depth = 1.29" for 10-Year event

Inflow = 1.20 cfs @ 12.04 hrs, Volume= 0.070 af

Primary = 1.20 cfs @ 12.04 hrs, Volume= 0.070 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP2:

Inflow Area = 1.275 ac, 5.49% Impervious, Inflow Depth = 1.42" for 10-Year event

Inflow = 1.84 cfs @ 12.16 hrs, Volume= 0.151 af

Primary = 1.84 cfs @ 12.16 hrs, Volume= 0.151 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP20:

Inflow Area = 50.264 ac, 9.71% Impervious, Inflow Depth = 1.25" for 10-Year event

Inflow = 31.43 cfs @ 12.39 hrs, Volume= 5.216 af

Primary = 31.43 cfs @ 12.39 hrs, Volume= 5.216 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP21:

Inflow Area = 7.874 ac, 25.98% Impervious, Inflow Depth = 1.61" for 10-Year event

Inflow = 1.10 cfs @ 12.05 hrs, Volume= 1.057 af

Primary = 1.10 cfs @ 12.05 hrs, Volume= 1.057 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP22:

Inflow Area = 0.328 ac, 7.62% Impervious, Inflow Depth = 1.49" for 10-Year event

Inflow = 0.70 cfs @ 12.04 hrs, Volume= 0.041 af

Primary = 0.70 cfs @ 12.04 hrs, Volume= 0.041 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP23:

Inflow Area = 2.727 ac, 29.63% Impervious, Inflow Depth = 1.84" for 10-Year event

Inflow = 1.07 cfs @ 12.00 hrs, Volume= 0.418 af

Primary = 1.07 cfs @ 12.00 hrs, Volume= 0.418 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP24:

Inflow Area = 13.779 ac, 3.95% Impervious, Inflow Depth = 1.42" for 10-Year event

Inflow = 21.69 cfs @ 12.13 hrs, Volume= 1.633 af

Primary = 21.69 cfs @ 12.13 hrs, Volume= 1.633 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP3:

Inflow Area = 4.241 ac, 25.14% Impervious, Inflow Depth = 1.79" for 10-Year event

Inflow = 0.51 cfs @ 12.07 hrs, Volume= 0.634 af

Primary = 0.51 cfs @ 12.07 hrs, Volume= 0.634 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP4:

Inflow Area = 62.647 ac, 2.01% Impervious, Inflow Depth = 1.30" for 10-Year event

Inflow = 48.22 cfs @ 12.11 hrs, Volume= 6.771 af

Primary = 48.22 cfs @ 12.11 hrs, Volume= 6.771 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP5:

Inflow Area = 2.355 ac, 0.51% Impervious, Inflow Depth = 1.36" for 10-Year event

Inflow = 2.89 cfs @ 12.22 hrs, Volume= 0.266 af

Primary = 2.89 cfs @ 12.22 hrs, Volume= 0.266 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP6:

Inflow Area = 75.057 ac, 9.07% Impervious, Inflow Depth = 1.34" for 10-Year event

Inflow = 70.14 cfs @ 12.16 hrs, Volume= 8.382 af

Primary = 70.14 cfs @ 12.16 hrs, Volume= 8.382 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP7:

Inflow Area = 0.872 ac, 6.42% Impervious, Inflow Depth = 1.42" for 10-Year event

Inflow = 1.69 cfs @ 12.05 hrs, Volume= 0.103 af

Primary = 1.69 cfs @ 12.05 hrs, Volume= 0.103 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP8:

Inflow Area = 0.344 ac, 19.19% Impervious, Inflow Depth = 1.63" for 10-Year event

Inflow = 0.81 cfs @ 12.04 hrs, Volume= 0.047 af

Primary = 0.81 cfs @ 12.04 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min

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Type II 24-hr 10-Year Rainfall=3.40" Printed 9/24/2021

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Summary for Link SP9:

Inflow Area = 0.148 ac, 24.32% Impervious, Inflow Depth = 1.70" for 10-Year event

Inflow = 0.37 cfs @ 12.03 hrs, Volume= 0.021 af

Primary = 0.37 cfs @ 12.03 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.0 min

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Summary for Subcatchment 1S: WS 3

Runoff = 0.54 cfs @ 12.06 hrs, Volume= 0.034 af, Depth= 2.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 25-Year Rainfall=4.20"

Area	(ac) (N De	scription		
0.	000	98 Un	treated exis	ting imperv	rious, HSG A
0.	000	98 Un	treated exis	ting imperv	rious, HSG C
0.	037	98 Un	treated exis	ting imperv	rious, HSG D
0.	000	98 Ex	sting imper	vious to be	treated as offset, HSG D
0.	000	30 Ex	sting mead	ow, non-gra	azed, HSG A
0.	000	71 Ex	sting mead	ow, non-gra	azed, HSG C
					azed, HSG D
			sting Wood		
			sting Wood		
			sting Wood		
0.	000	70 Pro	posed Woo	ods, Good,	HSG C
			posed Woo	ods, Good,	HSG D
					e treated, HSG C
					e treated, HSG D
				•	rvious, HSG C
					rvious, HSG D
					ndow, non-grazed, HSG C
					ndow, non-grazed, HSG D
					ndow to be treated, HSG C
					ndow to be treated, HSG D
			posed mea	•	·
			posed mea		
			posed mea		
0.	000	78 Pro	posed mea	idow, ski lift	t, HSG D
0.	172		ighted Ave		
0.	135	78.	49% Pervio	us Area	
0.	037	21.	51% Imper	vious Area	
_					
Tc	Length			Capacity	Description
(min)_	(feet)	(ft/ft		(cfs)	
10.8	74	0.3500	0.11		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
3.4	115	0.0500	0.56		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
14.2	189	Total			

Summary for Subcatchment 2S: WS 1

Runoff = 4.10 cfs @ 12.53 hrs, Volume= 0.585 af, Depth= 1.97"

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Area	(ac) C	N Desc	cription				
0.	000	98 Untr	eated exis	ting imperv	ious, HSG A		
0.	000				ious, HSG C		
0.019 98 Untreated existing impervious, HSG D							
0.000 98 Existing impervious to be treated as offset, HSG D							
					azed, HSG A		
					azed, HSG C		
					azed, HSG D		
				s, Good, H			
				s, Good, H			
			•	s, Good, H			
				ds, Good, I			
				ds, Good, I			
					e treated, HSG C		
					e treated, HSG D		
					rvious, HSG C		
					rvious, HSG D dow, non-grazed, HSG C		
					dow, non-grazed, HSG D		
					dow to be treated, HSG C		
					dow to be treated, HSG D		
				dow, ski tra			
				dow, ski tra			
0.000 71 Proposed meadow, ski lift, HSG C 0.000 78 Proposed meadow, ski lift, HSG D							
3.	567 7	77 Weid	ghted Aver	age			
	548		7% Pervio				
0.	019	0.53	% Impervi	ous Area			
Tc	Length	Slope	Velocity	Capacity	Description		
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)			
10.7	37	0.0900	0.06		Sheet Flow,		
					Woods: Dense underbrush n= 0.800 P2= 2.40"		
8.0	102	0.0900	2.10		Shallow Concentrated Flow,		
					Short Grass Pasture Kv= 7.0 fps		
36.2	150	0.0700	0.07		Sheet Flow,		
	400		0.75		Woods: Dense underbrush n= 0.800 P2= 2.40"		
3.0	133	0.0900	0.75		Shallow Concentrated Flow,		
0.0	400	0.0000	40.40	450.00	Forest w/Heavy Litter Kv= 2.5 fps		
0.2	138	0.0600	10.43	458.93	Trap/Vee/Rect Channel Flow,		
					Bot.W=20.00' D=2.00' Z= 1.0 '/' Top.W=24.00' n= 0.050		
0.0	505	0.0600	10.43	459.03	Trap/Vee/Rect Channel Flow,		
8.0	505	0.0600	10.43	458.93	Bot.W=20.00' D=2.00' Z= 1.0 '/' Top.W=24.00'		
					n= 0.050		
51.7	1 065	Total			11- 0.000		
31. <i>1</i>	1,003	าบเสเ					

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Summary for Subcatchment 3S: WS 1-1

Runoff = 4.26 cfs @ 12.10 hrs, Volume= 0.298 af, Depth= 1.97"

_	Area	(ac) (CN Des	cription				
	0.000 98 Untreated existing impervious, HSG A 0.000 98 Untreated existing impervious, HSG C							
	0.	rious, HSG C						
						rious, HSG D		
						treated as offset, HSG D		
						azed, HSG A		
						azed, HSG C		
				•	, ,	azed, HSG D		
					s, Good, H			
					s, Good, H			
					s, Good, H			
					ods, Good,			
					ods, Good,			
						e treated, HSG C		
						e treated, HSG D		
						rvious, HSG C		
						rvious, HSG D		
	0.000 71 Proposed developed meadow, non-grazed, HSG C							
	0.000 78 Proposed developed meadow, non-grazed, HSG D							
						adow to be treated, HSG C		
						adow to be treated, HSG D		
					idow, ski tra	·		
	_				idow, ski tra			
					idow, ski lif			
_					idow, ski lif	t, HSG D		
		-		ghted Ave				
	1.	814	100	.00% Perv	ious Area			
	_		01					
	Tc	Length		Velocity	Capacity	Description		
_	(min)	(feet)		(ft/sec)	(cfs)			
	9.5	100	0.0800	0.18		Sheet Flow,		
						Grass: Dense n= 0.240 P2= 2.40"		
	0.9	105	0.0800	1.98		Shallow Concentrated Flow,		
						Short Grass Pasture Kv= 7.0 fps		
	0.6	60	0.4700	1.71		Shallow Concentrated Flow,		
	0.6	000	0.4000	0.6=		Forest w/Heavy Litter Kv= 2.5 fps		
	6.3	328	0.1200	0.87		Shallow Concentrated Flow,		
_						Forest w/Heavy Litter Kv= 2.5 fps		
	17.3	593	Total					

12.0

674 Total

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Summary for Subcatchment 4S: WS 1-2

Runoff = 6.64 cfs @ 12.04 hrs, Volume= 0.389 af, Depth= 2.05"

0.000 98	Area	a (ac)	CN	N Desc	cription				
0.000	(0.000	98	3 Untre	eated exis	ting imperv	ious, HSG A		
0.000	(0.000 98 Untreated existing impervious, HSG C							
0.000 30	(
0.000	(0.000	98	B Exist	ting imperv	ious to be	treated as offset, HSG D		
0.000	(0.000	30) Exist	ting meado	ow, non-gra	azed, HSG A		
0.000 30 Existing Woods, Good, HSG C 0.085 77 Existing Woods, Good, HSG D 0.000 70 Proposed Woods, Good, HSG D 0.000 70 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG D 0.000 98 Proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed meadow, ski trail, HSG D 0.000 71 Proposed meadow, ski lift, HSG D 0.000 73 Proposed meadow, ski lift, HSG D 2.282 78 Weighted Average 2.280 99.91% Pervious Area 0.002 0.09% Impervious Area 0.00 (feet) (ft/ft) (ft/sec) 0.5 53 0.4900	(0.000	7	1 Exist	ting meado	ow, non-gra	azed, HSG C		
0.000 70 Existing Woods, Good, HSG C 0.685 77 Existing Woods, Good, HSG C 0.000 70 Proposed Woods, Good, HSG C 0.351 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG D 0.000 98 Untreated proposed impervious, HSG C 0.002 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 78 Proposed meadow, ski trail, HSG C 1.114 78 Proposed meadow, ski Iff, HSG D 0.000 78 Proposed meadow, ski Iff, HSG D 2.282 78 Weighted Average 2.280 99.91% Pervious Area 0.002 0.09% Impervious Area 0.002 0.09% Impervious Area Tc Length (ft/ft) (ft/sec) (cfs) Description 9.5 100 0.0800 0.18 Sheet Flow	(0.000	78	B Exist	ting meado	ow, non-gra	azed, HSG D		
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Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050		_							
n= 0.050	0.4	. 32	27	0.1000	13.40	563.00			
							n= 0.050		

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Summary for Subcatchment 5S: WS 1-3

Runoff = 17.83 cfs @ 12.14 hrs, Volume= 1.370 af, Depth= 1.97"

	Area (ac)	CN	Desc	ription		
	0.0	000	98	Untre	eated exis	ting imperv	ious, HSG A
	0.0	000	98	Untre	eated exis	ting imperv	ious, HSG C
	0.0	000	98				ious, HSG D
	0.0	000	98				treated as offset, HSG D
	0.0	000	30	Exist	ing meado	ow, non-gra	azed, HSG A
	0.0	000	71	Exist	ing meado	ow, non-gra	azed, HSG C
	0.0	000	78	Exist	ing meado	ow, non-gra	azed, HSG D
	0.0	000	30	Exist	ing Wood	s, Good, H	SG A
	0.0	000	70	Exist	ing Wood	s, Good, H	SG C
		319	77			s, Good, H	
		000	70			ds, Good, l	
		938	77			ds, Good, l	
		000	98				e treated, HSG C
		000	98				e treated, HSG D
		000	98			•	rvious, HSG C
		000	98				rvious, HSG D
		000	71				dow, non-grazed, HSG C
		000	78				dow, non-grazed, HSG D
		000	71				dow to be treated, HSG C
		000	78				dow to be treated, HSG D
		000	71			dow, ski tra	
		092	78			dow, ski tra	
		000	71			dow, ski lift	
		000	78			dow, ski lift	; HSG D
		349	77		jhted Aver		
	8.3	349		100.0	00% Pervi	ous Area	
	Tc	Length		Slope	Velocity	Capacity	Description
(n	nin)	(feet)		(ft/ft)	(ft/sec)	(cfs)	
	7.0	100	0.	1700	0.24		Sheet Flow,
							Grass: Dense n= 0.240 P2= 2.40"
	3.4	596	6 0.	1700	2.89		Shallow Concentrated Flow,
	_						Short Grass Pasture Kv= 7.0 fps
1	0.1	585	5 0.	1500	0.97		Shallow Concentrated Flow,
							Forest w/Heavy Litter Kv= 2.5 fps
2	20.5	1,281	l To	otal			

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Summary for Subcatchment 6S: WS 1-4

Runoff = 37.90 cfs @ 12.27 hrs, Volume= 3.836 af, Depth= 1.89"

 Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
2.284	70	Existing Woods, Good, HSG C
8.316	77	Existing Woods, Good, HSG D
0.588	70	Proposed Woods, Good, HSG C
1.175	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.088	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.085	71	Proposed meadow, ski trail, HSG C
6.341	78	Proposed meadow, ski trail, HSG D
0.360	71	Proposed meadow, ski lift, HSG C
 2.079	78	Proposed meadow, ski lift, HSG D
 24.316	76	Weighted Average
24.228		99.64% Pervious Area
0.088		0.36% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	10.7	51	0.1700	0.08		Sheet Flow,
	4.8	294	0.1700	1.03		Woods: Dense underbrush n= 0.800 P2= 2.40" Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
	4.4	760	0.1700	2.89		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	3.0	482	0.1500	2.71		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.5	447	0.1800	2.97		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	4.1	637	0.1400	2.62		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.1	138	0.1900	1.09		Shallow Concentrated Flow,
_						Forest w/Heavy Litter Kv= 2.5 fps
	31.6	2,809	Total			

Summary for Subcatchment 7S: WS 1-5

Runoff = 58.24 cfs @ 12.53 hrs, Volume= 8.421 af, Depth= 1.67"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.022	98	Untreated existing impervious, HSG C
0.021	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
3.752	71	Existing meadow, non-grazed, HSG C
6.694	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
23.036	70	Existing Woods, Good, HSG C
11.631	77	Existing Woods, Good, HSG D
2.098	70	Proposed Woods, Good, HSG C
0.523	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.008	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.186	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
7.773	71	Proposed meadow, ski trail, HSG C
4.678	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
60.422	73	Weighted Average
60.371		99.92% Pervious Area
0.051		0.08% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08	, ,	Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
3.8	237	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.2	276	0.1900	1.09		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.7	148	0.0700	0.66		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
6.9	402	0.1500	0.97		Shallow Concentrated Flow,
4.5	000	0.0500	4 40		Forest w/Heavy Litter Kv= 2.5 fps
4.5	396	0.3500	1.48		Shallow Concentrated Flow,
2.0	272	0.4000	4.50		Forest w/Heavy Litter Kv= 2.5 fps
3.9	373	0.4000	1.58		Shallow Concentrated Flow,
4.1	334	0.3000	1.37		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
4.1	334	0.3000	1.37		Forest w/Heavy Litter Kv= 2.5 fps
4.7	331	0.2200	1.17		Shallow Concentrated Flow,
7.1	301	0.2200	1.17		Forest w/Heavy Litter Kv= 2.5 fps
0.4	341	0.2300	15.69	156.92	Trap/Vee/Rect Channel Flow,
0.1	011	0.2000	10.00	100.02	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.4	396	0.2200	15.35	153.47	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.4	367	0.2300	15.69	156.92	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.5	394	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.4	361	0.1800	13.88	138.82	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
	0.50	0.4500	40.07	100 70	n= 0.050
0.3	252	0.1500	12.67	126.72	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
0.4	222	0.1700	13.49	134.91	n= 0.050 Trap/Vee/Rect Channel Flow,
0.4	333	0.1700	13.49	134.91	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.5	440	0.1900	14.26	142.62	Trap/Vee/Rect Channel Flow,
0.5	440	0.1300	14.20	142.02	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.6	459	0.1600	13.09	130.88	Trap/Vee/Rect Channel Flow,
0.0	100	0.1000	10.00	100.00	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
0.4	334	0.1700	13.49	134.91	Trap/Vee/Rect Channel Flow,
2				- -	Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.050
51.0	6,226	Total			

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Summary for Subcatchment 8S: WS 1-6

Runoff = 2.94 cfs @ 11.92 hrs, Volume= 0.131 af, Depth= 2.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 25-Year Rainfall=4.20"

Area	(ac)	CN De	scription						
0.	000	98 Ur	treated exis	ting imperv	rious, HSG A				
0.	0.000 98 Untreated existing impervious, HSG C								
0.	0.000 98 Untreated existing impervious, HSG D								
0.	000	98 Ex	isting imper	vious to be	treated as offset, HSG D				
0.	000	30 Ex	isting mead	ow, non-gra	azed, HSG A				
0.	000	71 Ex	isting mead	ow, non-gra	azed, HSG C				
0.	000		isting mead	ow, non-gra	azed, HSG D				
	000		isting Wood						
	000		isting Wood						
	000		isting Wood						
	000		oposed Woo						
	000		oposed Woo						
	181				e treated, HSG C				
	050				e treated, HSG D				
	000				rvious, HSG C				
	000				rvious, HSG D				
	000				dow, non-grazed, HSG C				
	000				dow, non-grazed, HSG D				
	262				idow to be treated, HSG C				
	111		•	•	dow to be treated, HSG D				
	056		oposed mea						
	000		oposed mea						
	000		oposed mea						
	000		oposed mea		I, HSG D				
	660		eighted Ave	_					
	429		.00% Pervio						
0.	231	35	.00% Imper	vious Area					
т.	المصمطا	. Clan	- \/-lit/	Canacity	Decemention				
Tc (min)	Length			Capacity	Description				
(min)	(feet	,		(cfs)	01 (5)				
1.4	100	0.020	0 1.19		Sheet Flow,				
0.5	0.0		0.00		Smooth surfaces n= 0.011 P2= 2.40"				
0.5	80	0.030	2.60		Shallow Concentrated Flow,				
0.0	40-	7 0 400	10.04	0.00	Grassed Waterway Kv= 15.0 fps				
0.2	107	7 0.120	0 10.21	8.02	Pipe Channel,				
					12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25'				
	20-	7 Tatal			n= 0.020 Corrugated PE, corrugated interior				

2.1 287 Total

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Summary for Subcatchment 9S: WS 1-7

Runoff = 42.77 cfs @ 12.30 hrs, Volume= 4.529 af, Depth= 1.74"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
10.166	70	Existing Woods, Good, HSG C
8.946	77	Existing Woods, Good, HSG D
1.118	70	Proposed Woods, Good, HSG C
1.643	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.068	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.838	71	Proposed meadow, ski trail, HSG C
5.370	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
31.149	74	Weighted Average
31.081		99.78% Pervious Area
0.068		0.22% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	5.8	100	0.2700	0.29	· /	Sheet Flow,
						n= 0.240 P2= 2.40"
	1.0	229	0.2700	3.64		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.5	216	0.3200	1.41		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	5.1	483	0.4000	1.58		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.1	251	0.2900	1.35		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	1.5	311	0.2300	3.36		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	4.1	863	0.2500	3.50		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	2.2	956	0.2100	7.19	21.56	Trap/Vee/Rect Channel Flow, ditch
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.069 Riprap, 6-inch
	7.1	413	0.1500	0.97		Shallow Concentrated Flow,
		500	0.4500	10.10	0.4.50	Forest w/Heavy Litter Kv= 2.5 fps
	8.0	509	0.1500	10.18	91.58	Trap/Vee/Rect Channel Flow,
						Bot.W=8.00' D=1.00' Z= 1.0 '/' Top.W=10.00'
_						n= 0.050
	33.2	4,331	Total			

Summary for Subcatchment 10S: WS 1A

Runoff = 5.36 cfs @ 12.23 hrs, Volume= 0.505 af, Depth= 1.97"

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Area	a (ac)	CN	Desc	cription				
(0.000	98	Untre	eated exis	ting imperv	ious, HSG A		
0.000 98 Untreated existing impervious, HSG C								
0.000 98 Untreated existing impervious, HSG D								
0.000 98 Existing impervious to be treated as offset, HSG D								
0.000 30 Existing meadow, non-grazed, HSG A								
	0.000	71				azed, HSG C		
	0.000	78				azed, HSG D		
	0.000 0.000	30 70		•	s, Good, H\$ s, Good, H\$			
	3.076	77		•	s, Good, H			
	0.000	70		•	ds, Good, I			
	0.000	77			ds, Good, I			
	0.000	98				e treated, HSG C		
	0.000	98				e treated, HSG D		
(0.000	98				rvious, HSG C		
(0.000	98				rvious, HSG D		
	0.000	71				dow, non-grazed, HSG C		
	0.000	78				dow, non-grazed, HSG D		
	0.000	71				dow to be treated, HSG C		
	0.000	78				dow to be treated, HSG D		
	0.000	71			dow, ski tra			
	0.000 0.000	78 71			dow, ski tra dow, ski lift			
	0.000	78			dow, ski lift dow, ski lift			
	3.076	77		hted Aver		, 1100 B		
	3.076	' '	_	00% Pervi	•			
`								
Tc	Lengt	th	Slope	Velocity	Capacity	Description		
(min)	(fee	t)	(ft/ft)	(ft/sec)	(cfs)	·		
10.9	3	1 0	0.0600	0.05		Sheet Flow,		
						Woods: Dense underbrush n= 0.800 P2= 2.40"		
5.2	19	1 0	0.0600	0.61		Shallow Concentrated Flow,		
	_					Forest w/Heavy Litter Kv= 2.5 fps		
1.1	5	9 0).1400	0.94		Shallow Concentrated Flow,		
4.0	40		0700	0.00		Forest w/Heavy Litter Kv= 2.5 fps		
4.9	19	3 U	0.0700	0.66		Shallow Concentrated Flow,		
4.1	16	1 0	0.0700	0.66		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,		
4.1	10	, ,	7.0700	0.00		Forest w/Heavy Litter Kv= 2.5 fps		
2.2	10	7 0	.1100	0.83		Shallow Concentrated Flow,		
۷.۷	10			0.00		Forest w/Heavy Litter Kv= 2.5 fps		
0.1	7	9 0	0.0500	9.26	314.98	Trap/Vee/Rect Channel Flow,		
		_				Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'		
						n= 0.050		
28.5	82	1 T	otal					

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Summary for Subcatchment 11S: WS 1B

Runoff = 17.11 cfs @ 12.09 hrs, Volume= 1.166 af, Depth= 2.13"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.425	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.072	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
5.568	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.084	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.429	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.578	79	Weighted Average
6.069		92.26% Pervious Area
0.509		7.74% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	10.9	38	0.0900	0.06		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	0.7	336	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
	0.7	339	0.0900	7.92	23.75	n= 0.041 Riprap, 2-inch Trap/Vee/Rect Channel Flow,
	0.7	333	0.0300	1.32	23.73	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.8	336	0.0700	6.98	20.95	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.7	278	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
	0.7	283	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
	0.7	200	0.0000	0.40	10.00	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.3	118	0.0800	7.46	22.39	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.4	164	0.0700	6.98	20.95	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
	0.1	83	0.1400	9.87	29.62	Trap/Vee/Rect Channel Flow,
	0	00	0.1.100	0.01	20.02	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	1.3	505	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_		2.10-				n= 0.041
	16.6	2,480	Total			

Summary for Subcatchment 12S: WS 1B1 - Lot G

Runoff = 11.26 cfs @ 11.92 hrs, Volume= 0.506 af, Depth= 2.55"

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Area	(ac) (CN Des	cription							
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A					
0.	000	000 98 Untreated existing impervious, HSG C								
0.	0.000 98 Untreated existing impervious, HSG D									
0.	0.000 98 Existing impervious to be treated as offset, HSG D									
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A					
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C					
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
0.	000	30 Exis	ting Wood	s, Good, H	SG A					
0.	000	70 Exis	ting Wood	s, Good, H	SG C					
0.	145	77 Exis	ting Wood	s, Good, H	SG D					
0.	000	70 Prop	osed Woo	ds, Good,	HSG C					
0.	007	77 Prop	osed Woo	ds, Good,	HSG D					
0.	000	98 Prop	osed impe	ervious to b	e treated, HSG C					
0.					e treated, HSG D					
0.					rvious, HSG C					
0.	000	98 Untr	eated prop	osed impe	rvious, HSG D					
0.					ndow, non-grazed, HSG C					
					ndow, non-grazed, HSG D					
					ndow to be treated, HSG C					
					ndow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lif						
0.	000	78 Prop	osed mea	dow, ski lif	t, HSG D					
2.	385		ghted Aver							
1.	620	67.9	2% Pervio	us Area						
0.	765	32.0	8% Imperv	∕ious Area						
Тс	Length		Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
1.4	100	0.0200	1.19		Sheet Flow,					
					Smooth surfaces n= 0.011 P2= 2.40"					
0.5	81	0.0200	2.87		Shallow Concentrated Flow,					
					Paved Kv= 20.3 fps					
0.3	304	0.1000	15.55	46.66	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022					
2.2	485	Total								

Summary for Subcatchment 13S: WS 1C

Runoff = 5.82 cfs @ 12.17 hrs, Volume= 0.477 af, Depth= 1.97"

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Area ((ac) C	N Desc	cription							
0.0	000	00 98 Untreated existing impervious, HSG A								
			Untreated existing impervious, HSG C							
			Untreated existing impervious, HSG D							
			Existing impervious to be treated as offset, HSG D							
					azed, HSG A					
					azed, HSG C					
					azed, HSG D					
			•	s, Good, H						
				s, Good, H						
				s, Good, H						
				ds, Good,						
				ds, Good,						
					e treated, HSG C					
			osed impe	ervious to b	e treated, HSG D					
0.0	000	8 Untro	eated prop	osed impe	rvious, HSG C					
0.0	000	8 Untr	eated prop	osed impe	rvious, HSG D					
0.0	000 7	'1 Prop	osed deve	loped mea	dow, non-grazed, HSG C					
0.0	053 7				dow, non-grazed, HSG D					
					dow to be treated, HSG C					
					dow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lift dow, ski lift						
				dow, ski lift dow, ski lift						
2.9	908 7	77 Weid	hted Aver	age						
	908		, 00% Pervi							
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Doodiption					
				(013)	Chaot Flour					
10.6	100	0.0600	0.16		Sheet Flow,					
4.0	400	0.0000	4 74		Grass: Dense n= 0.240 P2= 2.40"					
1.2	122	0.0600	1.71		Shallow Concentrated Flow,					
					Short Grass Pasture Kv= 7.0 fps					
0.4	46	0.4800	1.73		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
4.9	221	0.0900	0.75		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
3.2	154	0.1000	0.79		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.6	283	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow,					
				_	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.041					
2.0	88	0.0900	0.75		Shallow Concentrated Flow,					
2.0	00	0.000	3 0		Forest w/Heavy Litter Kv= 2.5 fps					
	1,014	Total			1 01000 Till Today Ettor Tiv Z.O 190					
22.9		I CALCAI								

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Summary for Subcatchment 14S: WS 1C1

Runoff = 42.21 cfs @ 12.11 hrs, Volume= 3.078 af, Depth= 2.37"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
3.283	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
3.459	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
6.788	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.702	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.321	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.998	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
15.551	82	Weighted Average
12.268		78.89% Pervious Area
3.283		21.11% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	10.7	48	0.1500	0.07		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	0.5	172	0.1500	6.24		Shallow Concentrated Flow,
	4 7	404	0.0500	4 57		Unpaved Kv= 16.1 fps
	1.7	164	0.0500	1.57		Shallow Concentrated Flow,
	0.3	77	0.3100	3.90		Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow,
	0.5	11	0.5100	3.90		Short Grass Pasture Kv= 7.0 fps
	0.4	157	0.0600	6.46	19.39	·
	0.1	101	0.0000	0.10	10.00	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.9	350	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.5	219	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
	0.5	054	0.0000	7.00	00.75	n= 0.041
	0.5	251	0.0900	7.92	23.75	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
	0.8	316	0.0600	6.46	19.39	Trap/Vee/Rect Channel Flow,
	0.0	310	0.0000	0.40	19.59	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.1	73	0.1900	11.50	34.51	
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	0.7	300	0.0700	6.98	20.95	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.041
	8.0	179	0.0200	3.73	11.20	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
	4.0	0.40	0.0500	5.00	47.70	n= 0.041
	1.0	342	0.0500	5.90	17.70	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
-	18.9	2640	Total			11- 0.041
	10.9	2,648	าบเลเ			

Summary for Subcatchment 15S: WS 1C2- Ex lot E

Runoff = 29.63 cfs @ 11.96 hrs, Volume= 1.438 af, Depth= 2.92"

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Area	(ac) C	N Des	cription					
0.	000 9	98 Untr	eated exis	ting imperv	rious, HSG A			
0.	000	98 Untr	eated exis	ting imperv	rious, HSG C			
0.	000	98 Untr	eated exis	ting imperv	rious, HSG D			
			ting imper	vious to be	treated as offset, HSG D			
					azed, HSG A			
					azed, HSG C			
					azed, HSG D			
				s, Good, H				
			0	s, Good, H				
				s, Good, H				
				ds, Good,				
				ds, Good,	nsg D e treated, HSG C			
			•		e treated, HSG D			
			•		rvious, HSG C			
					rvious, HSG D			
					idow, non-grazed, HSG C			
					idow, non-grazed, HSG D			
0.	000				dow to be treated, HSG C			
0.	000	78 Prop	osed deve	eloped mea	dow to be treated, HSG D			
		71 Prop	osed mea	dow, ski tra	ow, ski trail, HSG C			
				dow, ski tra				
				dow, ski lift				
				dow, ski lift	t, HSG D			
			ghted Aver					
	783		2% Pervio					
3.	136	52.9	8% Imper	∕ious Area				
Tc	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Description			
1.0	100	0.0500	1.72	(013)	Sheet Flow,			
1.0	100	0.0300	1.72		Smooth surfaces n= 0.011 P2= 2.40"			
0.4	90	0.0500	3.60		Shallow Concentrated Flow,			
0.4	00	0.0000	0.00		Unpaved Kv= 16.1 fps			
1.2	114	0.3900	1.56		Shallow Concentrated Flow,			
					Forest w/Heavy Litter Kv= 2.5 fps			
1.3	356	0.0300	4.57	13.71	Trap/Vee/Rect Channel Flow,			
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
					n= 0.041			
1.2	195	0.0300	2.79		Shallow Concentrated Flow,			
	_				Unpaved Kv= 16.1 fps			
0.1	31	0.3900	10.05		Shallow Concentrated Flow,			
					Unpaved Kv= 16.1 fps			
5.2	886	Total						

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Summary for Subcatchment 16S: WS 1D- Ex Timbers

Runoff = 65.98 cfs @ 12.55 hrs, Volume= 9.660 af, Depth= 1.89"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
4.120	98	Untreated existing impervious, HSG C
1.443	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
13.418	71	Existing meadow, non-grazed, HSG C
9.815	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
16.186	70	Existing Woods, Good, HSG C
12.572	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.473	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.008	98	Untreated proposed impervious, HSG C
0.044	98	Untreated proposed impervious, HSG D
0.454	71	Proposed developed meadow, non-grazed, HSG C
1.984	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.717	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
61.234	76	Weighted Average
55.619		90.83% Pervious Area
5.615		9.17% Impervious Area

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Tc (min)	-	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	60	0.2300	0.09		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	130	0.2300	1.20		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.6	182	0.2200	1.17		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.6	394	0.2200	1.17		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.4	298	0.2000	1.12		Shallow Concentrated Flow,
	400	0.4000	0.70		Forest w/Heavy Litter Kv= 2.5 fps
3.9	183	0.1000	0.79		Shallow Concentrated Flow,
0.4	000	0.0000	4.40		Forest w/Heavy Litter Kv= 2.5 fps
3.4	230	0.2000	1.12		Shallow Concentrated Flow,
٥. ٦	054	0.4000	0.47	444.07	Forest w/Heavy Litter Kv= 2.5 fps
0.5	254	0.1000	8.17	114.37	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
0.3	150	0.1300	9.31	130.40	n= 0.069 Riprap, 6-inch
0.3	109	0.1300	9.51	130.40	Trap/Vee/Rect Channel Flow, Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.069 Riprap, 6-inch
0.3	160	0.1100	8.57	119.95	Trap/Vee/Rect Channel Flow,
0.5	100	0.1100	0.07	113.33	Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.069 Riprap, 6-inch
2.2	165	0.2500	1.25		Shallow Concentrated Flow,
	100	0.2000	1.20		Forest w/Heavy Litter Kv= 2.5 fps
3.2	245	0.2600	1.27		Shallow Concentrated Flow,
· · -		0.200			Forest w/Heavy Litter Kv= 2.5 fps
0.4	192	0.1000	8.17	114.37	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.069 Riprap, 6-inch
0.1	231	0.1300	29.21	408.97	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.022
4.5	280	0.1700	1.03		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.6	134	0.3000	1.37		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
5.6	334	0.1600	1.00		Shallow Concentrated Flow,
0.0	400	0.0000	40.04	005.07	Forest w/Heavy Litter Kv= 2.5 fps
0.2	168	0.0800	16.81	235.27	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
1.1	200	0.0100	E 0.4	83.18	n= 0.030 Stream, clean & straight
1.1	398	0.0100	5.94	03.10	Trap/Vee/Rect Channel Flow, Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.030 Stream, clean & straight
0.5	334	0.0400	11.88	166.36	Trap/Vee/Rect Channel Flow,
0.5	JU -1	0.0700	11.00	100.00	Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'
					n= 0.030 Stream, clean & straight
0.2	176	0.1900	15.54	217.55	Trap/Vee/Rect Channel Flow,
0.2		21.200		00	Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'

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n= 0.050 Mountain streams w/large boulders

53.2 4,707 Total

Summary for Subcatchment 17S: WS 1D1

Runoff = 31.40 cfs @ 11.93 hrs, Volume= 1.351 af, Depth= 2.13"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.085	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.048	71	Existing meadow, non-grazed, HSG C
0.115	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.722	70	Existing Woods, Good, HSG C
0.593	77	Existing Woods, Good, HSG D
0.001	70	Proposed Woods, Good, HSG C
0.067	77	Proposed Woods, Good, HSG D
1.711	98	Proposed impervious to be treated, HSG C
0.017	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
3.438	71	Proposed developed meadow to be treated, HSG C
0.822	78	Proposed developed meadow to be treated, HSG D
0.003	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
7.622	79	Weighted Average
5.809		76.21% Pervious Area
1.813		23.79% Impervious Area

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To (min		Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	7 100	0.1100	2.36		Sheet Flow,
					Smooth surfaces n= 0.011 P2= 2.40"
0.0) 19	0.1100	6.73		Shallow Concentrated Flow,
					Paved Kv= 20.3 fps
0.3	3 69	0.0600	3.67		Shallow Concentrated Flow,
					Grassed Waterway Kv= 15.0 fps
0.5	5 427	0.1200	13.38	23.65	• ,
					18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38'
					n= 0.020 Corrugated PE, corrugated interior
0.2	2 316	0.1900	31.50	125.99	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
					n= 0.016 Asphalt, rough
0.1	1 118	0.2400	22.93	72.04	Pipe Channel,
					24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'
					n= 0.020 Corrugated PE, corrugated interior
0.6	372	0.1500	10.92	43.69	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
					n= 0.041 Riprap, 2-inch
2.4	1,421	Total			

Summary for Subcatchment 18S: WS 1D2

Runoff = 10.24 cfs @ 12.06 hrs, Volume= 0.639 af, Depth= 1.60"

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Area	(ac) (CN Des	cription								
0.	.000	98 Unt	Untreated existing impervious, HSG A								
0.	.000	98 Unt	Untreated existing impervious, HSG C								
0.	.000	98 Unt	reated exis	ting imperv	rious, HSG D						
0.	.000	98 Exis	Existing impervious to be treated as offset, HSG D								
0.	.000	30 Exis	Existing meadow, non-grazed, HSG A								
0.	.000	71 Exis	sting mead	ow, non-gra	azed, HSG C						
0.	.000	78 Exis	sting mead	ow, non-gra	azed, HSG D						
0.	.000	30 Exis	sting Wood	s, Good, H	SG A						
0.	.962	70 Exis	sting Wood	s, Good, H	SG C						
0.	.049	77 Exis	sting Wood	s, Good, H	SG D						
0.	.375	70 Pro	posed Woo	ds, Good,	HSG C						
0.	.139	77 Pro	posed Woo	ds, Good,	HSG D						
					e treated, HSG C						
0.			posed impe	ervious to b	e treated, HSG D						
0.			reated prop	osed impe	rvious, HSG C						
0.	0.000 98 Untreated proposed impervious, HSG D										
0.	0.277 71 Proposed developed meadow, non-grazed, HSG C										
0.000 78 Proposed developed meadow, non-grazed, HSG D											
0.000 71 Proposed developed meadow to be treated, HSG C											
0.000 78 Proposed developed meadow to be treated, HSG D											
				dow, ski tra							
0.552 78 Proposed meadow, ski trail, HSG D											
				dow, ski lift							
0.	.000	78 Pro	posed mea	dow, ski lift	t, HSG D						
4.	.785	72 Wei	ghted Aver	age							
4.	.785	100	.00% Pervi	ous Area							
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
7.2	100	0.1600	0.23		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
6.2	1,123	0.1890	3.04		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
13.4	1,223	Total	·								

Summary for Subcatchment 19S: WS 1D3

Runoff = 7.98 cfs @ 11.99 hrs, Volume= 0.395 af, Depth= 1.74"

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Area	(ac) C	N Des	cription							
0.	.000	98 Untr	Untreated existing impervious, HSG A							
			Untreated existing impervious, HSG C							
			Untreated existing impervious, HSG D							
			Existing impervious to be treated as offset, HSG D							
			Existing meadow, non-grazed, HSG A							
			Existing meadow, non-grazed, HSG C							
			•		azed, HSG D					
				s, Good, H						
				s, Good, H						
			0	s, Good, H						
				ds, Good,						
				ds, Good,						
					e treated, HSG C					
					e treated, HSG D					
					rvious, HSG C					
					rvious, HSG D					
1.	092	71 Prop	osed deve	eloped mea	dow, non-grazed, HSG C					
0.	000	78 Prop	osed deve	eloped mea	idow, non-grazed, HSG D					
0.	000	71 Prop	osed deve	eloped mea	idow to be treated, HSG C					
0.	000	78 Prop	osed deve	eloped mea	dow to be treated, HSG D					
0.	000	71 Prop	osed mea	dow, ski tra	ail, HSG C					
	0.000 78 Proposed meadow, ski trail, HSG D									
	0.000 71 Proposed meadow, ski lift, HSG C									
0.	0.000 78 Proposed meadow, ski lift, HSG D									
	2.717 74 Weighted Average									
	340	86.1	2% Pervio	us Area						
0.377 13.88% Impervious Area										
_										
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
0.9	93	0.0500	1.69		Sheet Flow,					
					Smooth surfaces n= 0.011 P2= 2.40"					
4.5	259	0.1500	0.97		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.7	220	0.1100	5.20	15.60	Trap/Vee/Rect Channel Flow, roadway ditch					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.069 Riprap, 6-inch					
8.0	70	0.3100	1.39		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.3	89	0.1100	5.20	15.60	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.069 Riprap, 6-inch					
7.2	731	Total								

Summary for Subcatchment 20S: WS 1D4

Runoff = 2.86 cfs @ 12.05 hrs, Volume= 0.170 af, Depth= 1.82"

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Area	(ac)	CN D	escription							
0.	000	98 U	Untreated existing impervious, HSG A							
0.	063	98 U	Untreated existing impervious, HSG C							
0.	037	98 U	Untreated existing impervious, HSG D							
0.	.000	98 E	Existing impervious to be treated as offset, HSG D							
	.000	30 E	Existing meadow, non-grazed, HSG A							
0.	295	71 E	Existing meadow, non-grazed, HSG C							
	074				azed, HSG D					
	.000		kisting Wood	ls, Good, H	SG A					
	307		kisting Wood							
	158		kisting Wood							
	000		oposed Wo							
	000		oposed Wo							
	000				pe treated, HSG C					
	.000				pe treated, HSG D					
	000				ervious, HSG C					
	000				ervious, HSG D					
	144				adow, non-grazed, HSG C					
	041				adow, non-grazed, HSG D					
	000				adow to be treated, HSG C					
	0.000 78 Proposed developed meadow to be treated, HSG D									
	0.000 71 Proposed meadow, ski trail, HSG C									
	0.000 78 Proposed meadow, ski trail, HSG D									
	0.000 71 Proposed meadow, ski lift, HSG C									
	000		oposed mea		t, HSG D					
	119		eighted Ave							
	019		.06% Pervio							
0.	100	8.	94% Imperv	ious Area						
т.	المام مرما	Class	- \/-lit-/	Canacity	December					
Tc	Length			Capacity	Description					
(min)	(feet)			(cfs)	01 (5)					
10.8	59	0.220	0.09		Sheet Flow,					
0.0	455	, , , , , , ,	0 00		Woods: Dense underbrush n= 0.800 P2= 2.40"					
8.0	157	0.220	0 3.28		Shallow Concentrated Flow,					
0.6	170	0.400	0 406	14.00	Short Grass Pasture Kv= 7.0 fps					
0.6	179	0.100	0 4.96	14.88	Trap/Vee/Rect Channel Flow, ditch					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
40.0	205	T-4-1			n= 0.069 Riprap, 6-inch					
12.2	395	Total								

Summary for Subcatchment 21S: Untreated from Timbers

Runoff = 19.04 cfs @ 11.95 hrs, Volume= 0.864 af, Depth= 2.29"

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Area	(ac)	CN	Desc	cription		
0.	000	98	Untre	eated exis	ting imperv	ious, HSG A
0.	000	98	Untre	eated exis	ting imperv	ious, HSG C
0.	000	98	Untre	eated exis	ting imperv	ious, HSG D
0.	000	98	Exist	ing imper	ious to be	treated as offset, HSG D
0.	000	30	Exist	ing meado	ow, non-gra	azed, HSG A
0.	000	71	Exist	ing meado	ow, non-gra	azed, HSG C
0.	000	78				azed, HSG D
0.	000	30	Exist	ing Woods	s, Good, H	SG A
0.	.000	70	Exist	ing Woods	s, Good, H	SG C
0.	.000	77	Exist	ing Woods	s, Good, H	SG D
0.	.000	70	Prop	osed Woo	ds, Good,	HSG C
0.	.000	77	Prop	osed Woo	ds, Good,	HSG D
0.	.000	98	Prop	osed impe	ervious to b	e treated, HSG C
0.	.000	98	Prop	osed impe	ervious to b	e treated, HSG D
0.	234	98	Untre	eated prop	osed impe	rvious, HSG C
0.	894	98	Untre	eated prop	osed impe	rvious, HSG D
	026	71				dow, non-grazed, HSG C
	185	78				dow, non-grazed, HSG D
	000	71				dow to be treated, HSG C
	.000	78				dow to be treated, HSG D
	186	71			dow, ski tra	
	.000	78			dow, ski tra	
	000	71			dow, ski lift	
0.	.000	78	Prop	<u>osed mea</u>	dow, ski lift	t, HSG D
4.	525	81	Weig	hted Aver	age	
3.	397		75.0	7% Pervio	us Area	
1.	128		24.9	3% Imperv	ious Area	
Tc	Lengt	th S	Slope	Velocity	Capacity	Description
(min)	(fee	t)	(ft/ft)	(ft/sec)	(cfs)	
0.7	9	2 0	.1000	2.23		Sheet Flow,
						Smooth surfaces n= 0.011 P2= 2.40"
0.3	10	5 0	.1700	6.18		Shallow Concentrated Flow,
						Grassed Waterway Kv= 15.0 fps
3.4	1,12	0 0	.1100	5.56	22.23	Trap/Vee/Rect Channel Flow, ditch
						Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
						n= 0.069 Riprap, 6-inch
4.4	1,31	7 T	otal			

Summary for Subcatchment 22S: WS 1D6

Runoff = 8.36 cfs @ 11.96 hrs, Volume= 0.402 af, Depth= 2.64"

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Area	(ac)	CN	Desc	ription		
0.	000	98	Untre	eated exist	ting imperv	ious, HSG A
0.	000	98			•	ious, HSG C
0.	000	98				ious, HSG D
	000	98				treated as offset, HSG D
	000	30				azed, HSG A
0.	000	71				azed, HSG C
0.	000	78				azed, HSG D
0.	000	30			s, Good, HS	
0.	000	70			s, Good, HS	
0.	000	77			s, Good, HS	
0.	000	70			ds, Good, I	
0.	000	77	Prop	osed Woo	ds, Good, I	HSG D
	103	98				e treated, HSG C
0.	537	98	Prop	osed impe	ervious to b	e treated, HSG D
0.	000	98	Untre	eated prop	osed imper	rvious, HSG C
0.	000	98	Untre	eated prop	osed impe	rvious, HSG D
0.	000	71	Prop	osed deve	loped mea	dow, non-grazed, HSG C
0.	000	78	Prop	osed deve	loped mea	dow, non-grazed, HSG D
0.	127	71	Prop	osed deve	loped mea	dow to be treated, HSG C
1.	062	78	Prop	osed deve	loped mea	dow to be treated, HSG D
0.	.000	71	Prop	osed mea	dow, ski tra	nil, HSG C
0.	.000	78	Prop	osed mea	dow, ski tra	nil, HSG D
0.	.000	71	Prop	osed mea	dow, ski lift	, HSG C
0.	000	78	Prop	osed mea	dow, ski lift	, HSG D
1.	829	85	Weig	hted Aver	age	
1.	189		65.0	1% Pervio	us Area	
0.	640		34.9	9% Imperv	ious Area	
				•		
Tc	Lengt	h S	Slope	Velocity	Capacity	Description
(min)	(feet	t)	(ft/ft)	(ft/sec)	(cfs)	·
4.2	6	6 0	.2700	0.26		Sheet Flow,
						Grass: Dense n= 0.240 P2= 2.40"
0.7	8	9 0	.0200	2.12		Shallow Concentrated Flow,
						Grassed Waterway Kv= 15.0 fps
0.5	31	0 0	.0600	11.11	8.73	Pipe Channel,
						12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25'
						n= 0.013 Corrugated PE, smooth interior
5.4	46	5 T	otal			

Summary for Subcatchment 23S: WS 1D7

Runoff = 13.69 cfs @ 12.41 hrs, Volume= 1.714 af, Depth= 1.74"

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Area (a	c) C	N_	Description
0.00	00 9	98	Untreated existing impervious, HSG A
0.00	00 9	98	Untreated existing impervious, HSG C
0.00	00 9	98	Untreated existing impervious, HSG D
0.00	00 9	98	Existing impervious to be treated as offset, HSG D
0.00	00 3	30	Existing meadow, non-grazed, HSG A
2.08	34 7	71	Existing meadow, non-grazed, HSG C
3.60		78	Existing meadow, non-grazed, HSG D
0.00		30	Existing Woods, Good, HSG A
3.19	98 7	70	Existing Woods, Good, HSG C
1.64		77	Existing Woods, Good, HSG D
0.16	39 7	70	Proposed Woods, Good, HSG C
0.25		77	Proposed Woods, Good, HSG D
0.00		98	Proposed impervious to be treated, HSG C
0.00		98	Proposed impervious to be treated, HSG D
0.00		98	Untreated proposed impervious, HSG C
0.03		98	Untreated proposed impervious, HSG D
0.09		71	Proposed developed meadow, non-grazed, HSG C
0.16		78	Proposed developed meadow, non-grazed, HSG D
0.00		71	Proposed developed meadow to be treated, HSG C
0.00		78	Proposed developed meadow to be treated, HSG D
0.24		71	Proposed meadow, ski trail, HSG C
0.28		78	Proposed meadow, ski trail, HSG D
0.00		71	Proposed meadow, ski lift, HSG C
0.00	00 7	<u>78 </u>	Proposed meadow, ski lift, HSG D
11.78	37 7	74	Weighted Average
11.74			99.63% Pervious Area
0.04	14		0.37% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
_	7.2	100	0.1600	0.23	(013)	Sheet Flow,
	1.2	100	0.1000	0.25		Grass: Dense n= 0.240 P2= 2.40"
	0.5	89	0.1600	2.80		Shallow Concentrated Flow,
	0.5	03	0.1000	2.00		Short Grass Pasture Kv= 7.0 fps
	5.4	228	0.0800	0.71		Shallow Concentrated Flow,
	0.4	220	0.0000	0.7 1		Forest w/Heavy Litter Kv= 2.5 fps
	3.0	185	0.1700	1.03		Shallow Concentrated Flow,
	0.0	.00	000	1.00		Forest w/Heavy Litter Kv= 2.5 fps
	3.4	217	0.1800	1.06		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.0	273	0.2100	1.15		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.3	293	0.2100	1.15		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.8	264	0.2100	1.15		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	3.3	251	0.2500	1.25		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.5	300	0.2000	1.12		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	2.6	194	0.2500	1.25		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.2	138	0.2200	10.15	30.45	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_						n= 0.050
	42.2	2,532	Total			

Summary for Subcatchment 24S: WS 2

Runoff = 2.69 cfs @ 12.16 hrs, Volume= 0.218 af, Depth= 2.05"

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Area	(ac)	CN D	escription		
0.	.000	98 U	ntreated exis	sting imperv	vious, HSG A
	.000				vious, HSG C
	.070				vious, HSG D
0.	.000				treated as offset, HSG D
0.	.000				azed, HSG A
0.	.000				azed, HSG C
0.	.000	78 E	xisting mead	low, non-gr	azed, HSG D
0.	.000	30 E	xisting Wood	ls, Good, H	ISG A
0.	.000	70 E	xisting Wood	ls, Good, H	ISG C
1.	.145	77 E	xisting Wood	ls, Good, H	ISG D
0.	.000	70 P	roposed Wo	ods, Good,	HSG C
0.	.000	77 P	roposed Wo	ods, Good,	HSG D
0.	.000	98 P	roposed imp	ervious to b	pe treated, HSG C
0.	.000	98 P	roposed imp	ervious to b	pe treated, HSG D
0.	.000	98 U	ntreated pro	posed impe	ervious, HSG C
0.	.000	98 U	ntreated pro	posed impe	ervious, HSG D
0.	.000	71 P	roposed dev	eloped mea	adow, non-grazed, HSG C
	.048				adow, non-grazed, HSG D
	.000				adow to be treated, HSG C
	.012				adow to be treated, HSG D
	.000		roposed mea		
	.000		roposed mea		
	.000		roposed mea		
	.000		roposed mea		ft, HSG D
	.275		eighted Ave		
	.205	_	4.51% Pervi		
0.	.070	5.	.49% Imperv	ious Area	
Tc	Length			Capacity	Description
<u>(min)</u>	(feet)			(cfs)	
10.7	35	0.080	0.05		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
5.7	242	0.080	0.71		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.1	176	0.080	0.71		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.0	129	0.050	00 1.10	3.30	
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.220
22.5	582	? Total			

Summary for Subcatchment 25S: WS 2A

Runoff = 10.91 cfs @ 11.93 hrs, Volume= 0.490 af, Depth= 2.82"

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Area	(ac) (CN De	scription		
0.	000	98 Un	treated exis	ting imperv	rious, HSG A
0.	000	98 Un	treated exis	ting imperv	rious, HSG C
0.	010	98 Un	treated exis	ting imperv	rious, HSG D
0.	000	98 Ex	isting imper	vious to be	treated as offset, HSG D
0.	000	30 Ex	isting mead	ow, non-gra	azed, HSG A
0.	000	71 Ex	isting mead	ow, non-gra	azed, HSG C
0.			isting mead	ow, non-gra	azed, HSG D
0.	000	30 Ex	isting Wood	s, Good, H	SG A
		70 Ex	isting Wood	s, Good, H	SG C
0.	002	77 Ex	isting Wood	s, Good, H	SG D
0.	000	70 Pro	posed Woo	ds, Good,	HSG C
			pposed Woo	ds, Good,	HSG D
					e treated, HSG C
0.					e treated, HSG D
					rvious, HSG C
					rvious, HSG D
					ndow, non-grazed, HSG C
					ndow, non-grazed, HSG D
					ndow to be treated, HSG C
					dow to be treated, HSG D
			posed mea		
			oposed mea		
			oposed mea		
0.			oposed mea	dow, ski lift	t, HSG D
			eighted Avei	•	
	164		.85% Pervio		
0.	920	44.	.15% Imper	vious Area	
Тс	Length	Slope	e Velocity	Capacity	Description
(min)	(feet)			(cfs)	Description
1.2	100			(=:=)	Sheet Flow,
					Smooth surfaces n= 0.011 P2= 2.40"
1.6	457	0.0900	4.70	14.11	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.069 Riprap, 6-inch
2.8	557	Total			

Summary for Subcatchment 27S: WS 3A

Runoff = 3.67 cfs @ 12.24 hrs, Volume= 0.352 af, Depth= 2.13"

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Area	(ac) C	N Desc	cription		
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A
				• .	rious, HSG C
					rious, HSG D
					treated as offset, HSG D
					azed, HSG A
					azed, HSG C
					azed, HSG D
				s, Good, H	
			0		
				s, Good, H	
			•	s, Good, H	
				ds, Good,	
				ds, Good,	
			•		e treated, HSG C
			•		e treated, HSG D
					rvious, HSG C
					rvious, HSG D
					idow, non-grazed, HSG C
					idow, non-grazed, HSG D
				•	dow to be treated, HSG C
0.			osed deve	loped mea	idow to be treated, HSG D
0.	000	71 Prop	osed mea	dow, ski tra	ail, HSG C
0.	480	78 Prop	osed mea	dow, ski tra	ail, HSG D
0.	000	71 Prop	osed mea	dow, ski lift	t, HSG C
0.	000	78 Prop	osed mea	dow, ski lift	t, HSG D
1.	985	79 Weig	hted Aver	age	
1.	876	94.5	1% Pervio	us Area	
0.	109	5.49	% Impervi	ous Area	
			•		
Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	•
10.8	53	0.1800	0.08	, ,	Sheet Flow,
10.0	00	0.1000	0.00		Woods: Dense underbrush n= 0.800 P2= 2.40"
2.1	136	0.1800	1.06		Shallow Concentrated Flow,
۷. ۱	100	0.1000	1.00		Forest w/Heavy Litter Kv= 2.5 fps
6.6	241	0.0600	0.61		Shallow Concentrated Flow,
0.0	2 4 i	0.0000	0.01		
0.2	18	0.4400	1.66		Forest w/Heavy Litter Kv= 2.5 fps
0.2	10	0.4400	1.00		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
2.7	450	0.0000	0.74		· · · · · · · · · · · · · · · · · · ·
3.7	159	0.0800	0.71		Shallow Concentrated Flow,
o -	400	0.4000	4.00		Forest w/Heavy Litter Kv= 2.5 fps
2.7	160	0.1600	1.00		Shallow Concentrated Flow,
	40.1	0.4000	0.70		Forest w/Heavy Litter Kv= 2.5 fps
3.4	161	0.1000	0.79		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
29.5	928	Total			

13.2

905 Total

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Summary for Subcatchment 28S: WS 4

Runoff = 11.72 cfs @ 12.05 hrs, Volume= 0.716 af, Depth= 1.97"

Area	(ac)	CN Des	cription		
0	.000	98 Untr	eated exis	ting imperv	ious, HSG A
0	.000	98 Untr	eated exis	ting imperv	ious, HSG C
0.	.009	98 Untr	eated exis	ting imperv	ious, HSG D
0.	.000		ting imper	vious to be	treated as offset, HSG D
0.	.000		ting mead	ow, non-gra	azed, HSG A
	.000				azed, HSG C
	.000				azed, HSG D
	.000			s, Good, H	
	.000			s, Good, H	
	.993			s, Good, H	
	.000			ds, Good, l	
	.257			ds, Good, l	
	.000				e treated, HSG C
	.000				e treated, HSG D
	.000				rvious, HSG C
	.000				rvious, HSG D
	.000				dow, non-grazed, HSG C
	.000				dow, non-grazed, HSG D
	.000				dow to be treated, HSG C
	.000				dow to be treated, HSG D
	.000			dow, ski tra	
	.104			dow, ski tra	
	.000			dow, ski lift	
_	.000			dow, ski lift	., NSG D
	.363		ghted Aver		
	.354		9% Pervio		
U.	.009	0.21	% Impervi	ous Area	
т.	المسميما	Clana	\/alaaits/	Composity	Decembring
Tc	Length		Velocity	Capacity	Description
(min)	(feet		(ft/sec)	(cfs)	
9.0	100	0.0900	0.18		Sheet Flow,
0.4	000		0.40		Grass: Dense n= 0.240 P2= 2.40"
2.1	269	0.0900	2.10		Shallow Concentrated Flow,
4.0	400	0.4400	0.04		Short Grass Pasture Kv= 7.0 fps
1.8	100	0.1400	0.94		Shallow Concentrated Flow,
0.0	400	0.4400	04 47	0.744.07	Forest w/Heavy Litter Kv= 2.5 fps
0.3	436	0.1100	24.47	2,741.07	Trap/Vee/Rect Channel Flow,
					Bot.W=6.00' D=8.00' Z= 1.0 '/' Top.W=22.00'
40.0	007	T.4.1			n= 0.050 Mountain streams w/large boulders

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Summary for Subcatchment 29S: WS 4A

Runoff = 55.33 cfs @ 12.04 hrs, Volume= 3.262 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 25-Year Rainfall=4.20"

_	Area	(ac)	CN	Desc	cription		
	0.	000	98	Untre	eated exis	ting imperv	ious, HSG A
	0.	000	98	Untre	eated exis	ting imperv	ious, HSG C
	0.	000	98				ious, HSG D
	0.	000	98	Exist	ting imperv	ious to be	treated as offset, HSG D
	0.	000	30	Exist	ting meado	w, non-gra	azed, HSG A
	0.	000	71	Exist	ting meado	ow, non-gra	azed, HSG C
	0.	000	78	Exist	ting meado	ow, non-gra	azed, HSG D
	0.	000	30	Exist	ting Woods	s, Good, H	SG A
	3.	622	70	Exist	ting Woods	s, Good, H	SG C
	10.	916	77	Exist	ting Woods	s, Good, H	SG D
	0.	000	70	Prop	osed Woo	ds, Good, I	HSG C
	1.	944	77	Prop	osed Woo	ds, Good, I	HSG D
	0.	000	98	Prop	osed impe	rvious to b	e treated, HSG C
	0.	000	98	Prop	osed impe	rvious to b	e treated, HSG D
	0.	000	98	Untre	eated prop	osed impe	rvious, HSG C
		000	98				rvious, HSG D
	0.	000	71	Prop	osed deve	loped mea	dow, non-grazed, HSG C
	0.	218	78				dow, non-grazed, HSG D
		000	71				dow to be treated, HSG C
		000	78				dow to be treated, HSG D
		000	71			dow, ski tra	
	3.	977	78			dow, ski tra	
		000	71			dow, ski lift	
_	0.	000	78	Prop	osed mea	dow, ski lift	; HSG D
		677	76		hted Aver		
	20.	677		100.0	00% Pervi	ous Area	
	Тс	Length		Slope	Velocity	Capacity	Description
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	6.7	100	0.	1900	0.25		Sheet Flow,
							Grass: Dense n= 0.240 P2= 2.40"
	1.0	180	0.	1900	3.05		Shallow Concentrated Flow,
							Short Grass Pasture Kv= 7.0 fps
	4.4	2,562	2 0.	1550	9.80	58.80	Trap/Vee/Rect Channel Flow,
							Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00'
_							n= 0.050 Mountain streams w/large boulders
	12.1	2.842	2 To	otal			

12.1 2,842 Total

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Summary for Subcatchment 30S: WS 4B

Runoff = 18.03 cfs @ 12.18 hrs, Volume= 1.520 af, Depth= 2.05"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.657	70	Existing Woods, Good, HSG C
4.078	77	Existing Woods, Good, HSG D
0.184	70	Proposed Woods, Good, HSG C
1.364	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.216	98	Untreated proposed impervious, HSG C
0.393	98	Untreated proposed impervious, HSG D
0.593	71	Proposed developed meadow, non-grazed, HSG C
1.416	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.006	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
8.907	78	Weighted Average
8.298		93.16% Pervious Area
0.609		6.84% Impervious Area

Type II 24-hr 25-Year Rainfall=4.20" Printed 9/24/2021

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 Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	54	0.1900	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
0.6	105	0.1900	3.05		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
1.0	80	0.2800	1.32		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.4	255	0.1400	11.64	69.85	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.040 Mountain streams
0.4	218	0.1100	10.32	61.91	Trap/Vee/Rect Channel Flow,
					Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00'
					n= 0.040 Mountain streams
4.4	217	0.1100	0.83		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.5	189	0.0800	0.71		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
2.0	142	0.2300	1.20		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
24.0	1,260	Total			

Summary for Subcatchment 31S: WS 4C

Runoff = 42.28 cfs @ 12.23 hrs, Volume= 4.008 af, Depth= 1.82"

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Area (ac) CN Description 0.000 98 Untreated existing impervious, HSG A 0.000 98 Untreated existing impervious, HSG C 0.000 98 Untreated existing impervious, HSG D 0.000 98 Existing impervious to be treated as offset, HSG D 0.000 30 Existing meadow, non-grazed, HSG A 0.802 71 Existing meadow, non-grazed, HSG C 2.723 78 Existing meadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG A 3.606 70 Existing Woods, Good, HSG C 5.804 77 Existing Woods, Good, HSG D 1.389 70 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D 0.213 98 Untreated proposed impervious, HSG C 0.215 98 Untreated proposed impervious, HSG D 0.336 71 Proposed developed meadow, non-grazed, HSG D 0.248 78 Proposed developed meadow, non-grazed, HSG C 0.000 71 Proposed meadow, ski trail, HSG C 4.557 78 Proposed meadow, ski trail, HSG C 0.000 71 Proposed meadow, ski trail, HSG C	
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0.000 78 Proposed meadow, ski lift, HSG D	
26.451 75 Weighted Average	
26.023 98.38% Pervious Area	
0.428 1.62% Impervious Area	
To London Clara Valority Constitut Description	
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)	
8.7 100 0.1000 0.19 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40"	
0.3 37 0.1000 2.21 Shallow Concentrated Flow,	
Short Grass Pasture Kv= 7.0 fps	
3.0 270 0.3700 1.52 Shallow Concentrated Flow,	
Forest w/Heavy Litter Kv= 2.5 fps	
1.8 431 0.3200 3.96 Shallow Concentrated Flow,	
Short Grass Pasture Kv= 7.0 fps	
1.7 157 0.3800 1.54 Shallow Concentrated Flow,	
Forest w/Heavy Litter Kv= 2.5 fps	
3.6 702 0.2100 3.21 Shallow Concentrated Flow,	
Short Grass Pasture Kv= 7.0 fps	
3.5 262 0.2500 1.25 Shallow Concentrated Flow,	
Forest w/Heavy Litter Kv= 2.5 fps	
1.7 740 0.2200 7.36 22.07 Trap/Vee/Rect Channel Flow, ditch	
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'	
n= 0.069 Riprap, 6-inch	
3.5 248 0.2200 1.17 Shallow Concentrated Flow,	
Forest w/Heavy Litter Kv= 2.5 fps	
0.6 347 0.1600 9.96 59.74 Trap/Vee/Rect Channel Flow,	
0.0 547 0.1000 9.90 59.74 frab/vee/Rect Chainlei Flow.	

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n= 0.050 Mountain streams w/large boulders

28.4 3,294 Total

Summary for Subcatchment 32S: WS 5

Runoff = 4.27 cfs @ 12.21 hrs, Volume= 0.387 af, Depth= 1.97"

	Area (ac)	CN	Description
	0.000	98	Untreated existing impervious, HSG A
	0.000	98	Untreated existing impervious, HSG C
	0.012	98	Untreated existing impervious, HSG D
	0.000	98	Existing impervious to be treated as offset, HSG D
	0.000	30	Existing meadow, non-grazed, HSG A
	0.000	71	Existing meadow, non-grazed, HSG C
	0.000	78	Existing meadow, non-grazed, HSG D
	0.000	30	Existing Woods, Good, HSG A
	0.000	70	Existing Woods, Good, HSG C
	1.790	77	Existing Woods, Good, HSG D
	0.000	70	Proposed Woods, Good, HSG C
	0.133	77	Proposed Woods, Good, HSG D
	0.000	98	Proposed impervious to be treated, HSG C
	0.000	98	Proposed impervious to be treated, HSG D
	0.000	98	Untreated proposed impervious, HSG C
	0.000	98	Untreated proposed impervious, HSG D
	0.000	71	Proposed developed meadow, non-grazed, HSG C
	0.000	78	Proposed developed meadow, non-grazed, HSG D
	0.000	71	Proposed developed meadow to be treated, HSG C
	0.000	78	Proposed developed meadow to be treated, HSG D
	0.000	71	Proposed meadow, ski trail, HSG C
	0.420	78	Proposed meadow, ski trail, HSG D
	0.000	71	Proposed meadow, ski lift, HSG C
_	0.000	78	Proposed meadow, ski lift, HSG D
	2.355	77	Weighted Average
	2.343		99.49% Pervious Area
	0.012		0.51% Impervious Area

Type II 24-hr 25-Year Rainfall=4.20" Printed 9/24/2021

55310.01-West Mountain-PR

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	Тс	Length	Slope	Velocity	Capacity	Description
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	<u>'</u>
	10.9	38	0.0900	0.06		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
	2.0	89	0.0900	0.75		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	4.3	240	0.1400	0.94		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	8.1	345	0.0800	0.71		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	1.4	87	0.1700	1.03		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.1	88	0.1400	13.49	40.48	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_						n= 0.030 Stream, clean & straight
	26.8	887	Total			

Summary for Subcatchment 33S: WS 6

Runoff = 15.71 cfs @ 12.08 hrs, Volume= 1.027 af, Depth= 1.97"

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Area	(ac)	CN De	scription		
0.	.000	98 Un	treated exis	ting imperv	rious, HSG A
	.000				rious, HSG C
0.	.041				rious, HSG D
	.000				treated as offset, HSG D
	.000		azed, HSG A		
	.000			azed, HSG C	
	.000		azed, HSG D		
0.	.000		sting Wood		
	.000		sting Wood		
	.020		sting Wood		
	.000		posed Woo		
	.108		posed Woo		
	.000				e treated, HSG C
	.000				e treated, HSG D
	.000				rvious, HSG C
	.000				rvious, HSG D
	.000				adow, non-grazed, HSG C
	.595				adow, non-grazed, HSG D
	.000				adow to be treated, HSG C
	.000				adow to be treated, HSG D
	.000		posed mea		
	.493		posed mea		
	.000		posed mea		
	.000		posed mea		
	.257		ighted Ave		, · · · · · ·
	.216		34% Pervio	•	
	.041		6% Impervi		
		0.0	0,0 1111,001.11	040704	
Tc	Length	n Slope	e Velocity	Capacity	Description
(min)	(feet	•		(cfs)	
8.3	100			, ,	Sheet Flow,
0.0	100	0.1100	0.20		Grass: Dense n= 0.240 P2= 2.40"
0.7	93	0.1100	2.32		Shallow Concentrated Flow,
0.1		0.1100	2.02		Short Grass Pasture Kv= 7.0 fps
1.3	201	0.1400	2.62		Shallow Concentrated Flow,
1.0	20	0.1400	2.02		Short Grass Pasture Kv= 7.0 fps
0.5	261	0.1500	8.96	35.82	
0.0	20	0.1000	0.00	00.02	Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
					n= 0.050
0.5	183	0.0700	6.12	24.47	Trap/Vee/Rect Channel Flow,
0.0	102	. 0.0700	0.12	27.71	Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
					n= 0.050
0.8	241	0.0500	5.17	20.68	Trap/Vee/Rect Channel Flow,
0.0	24	0.0000	5.17	20.00	Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
					· · · · · · · · · · · · · · · · · · ·
2.8	110	0.0800	0.71		n= 0.050 Mountain streams w/large boulders
2.0	119	0.0000	0.71		Shallow Concentrated Flow,
0.0	7.	0.0600	5 20	15.00	Forest w/Heavy Litter Kv= 2.5 fps
0.2	71	0.0600	5.30	15.90	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.050
15.1	1,268	3 Total			n= 0.050

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Summary for Subcatchment 34S: WS 6A

Runoff = 27.29 cfs @ 12.12 hrs, Volume= 1.999 af, Depth= 1.89"

Area	(ac) C	N Desc	cription						
0.	000	98 Untr	eated exis	ting imperv	ious, HSG A				
0.					ious, HSG C				
				• .	ious, HSG D				
0.000 98 Existing impervious to be treated as offset, HSG D									
0.000 30 Existing meadow, non-grazed, HSG A									
			0	,	azed, HSG C				
					azed, HSG D				
				s, Good, H					
			•	s, Good, H					
			•	s, Good, H					
			•	ds, Good,					
				ds, Good,					
					e treated, HSG C				
0.	000				e treated, HSG D				
0.					rvious, HSG C				
0.	406				rvious, HSG D				
0.	000	71 Prop	osed deve	eloped mea	dow, non-grazed, HSG C				
0.	543	78 Prop	osed deve	eloped mea	dow, non-grazed, HSG D				
0.	000				dow to be treated, HSG C				
0.	000	78 Prop	osed deve	eloped mea	dow to be treated, HSG D				
1.	571	71 Prop	osed mea	dow, ski tra	ail, HSG C				
2.	925	78 Prop	osed mea	dow, ski tra	ail, HSG D				
0.	000	71 Prop	osed mea	dow, ski lift	; HSG C				
0.	000	78 Prop	osed mea	dow, ski lift	;, HSG D				
12.	671	76 Weig	ghted Aver	age					
12.	265	96.8	0% Pervio	us Area					
0.	406	3.20	% Impervi	ous Area					
			·						
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	·				
10.8	53	0.1800	0.08		Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
5.0	440	0.3400	1.46		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
0.3	142	0.0800	7.46	22.39	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.041 Riprap, 2-inch				
0.6	62	0.5500	1.85		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
2.1	1,603	0.1370	12.71	152.58	Trap/Vee/Rect Channel Flow,				
					Bot.W=4.00' D=2.00' Z= 1.0 '/' Top.W=8.00'				
					n= 0.050 Mountain streams w/large boulders				
18.8	2,300	Total							

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Summary for Subcatchment 35S: WS 6B

Runoff = 4.79 cfs @ 12.11 hrs, Volume= 0.346 af, Depth= 2.29"

Area	(ac)	CN	Desc	ription							
0	.000	98	Untre	eated exis	ting imperv	ious, HSG A					
0	.000	98	Untre	eated exis	ting imperv	ious, HSG C					
0	0.000 98 Untreated existing impervious, HSG D										
0.000 98 Existing impervious to be treated as offset, HSG D											
0.000 30 Existing meadow, non-grazed, HSG A											
0.000 71 Existing meadow, non-grazed, HSG C											
0	.000	78	Exist	ing meado	ow, non-gra	azed, HSG D					
0	.000	30	Exist	ing Woods	s, Good, H	SG A					
	.000	70	Exist	ing Woods	s, Good, H	SG C					
0	.967	77			s, Good, H						
	.000	70			ds, Good,						
	.116	77			ds, Good,						
	.000	98				e treated, HSG C					
	.000	98				e treated, HSG D					
	.000	98				rvious, HSG C					
	.298	98				rvious, HSG D					
	.000	71				dow, non-grazed, HSG C					
	.434	78				dow, non-grazed, HSG D					
	.000	71				dow to be treated, HSG C					
	.000	78				dow to be treated, HSG D					
	.000	71			dow, ski tra						
	.000	78			dow, ski tra						
	.000	71			dow, ski lift						
	.000	78			dow, ski lift	I, HSG D					
	.815	81		hted Aver							
	.517			8% Pervio							
U	.298		16.4	2% imperv	ious Area						
То	Longth		lana	Valacity	Canacity	Description					
Tc (min)	Length (feet		lope ft/ft)	Velocity	Capacity (cfs)	Description					
(min)				(ft/sec)	(CIS)	Oh ast Flour					
10.7	62	2 0.2	2500	0.10		Sheet Flow,					
4.0	0.0		0500	4.05		Woods: Dense underbrush n= 0.800 P2= 2.40"					
1.2	93	0.2	2500	1.25		Shallow Concentrated Flow,					
1.7	10/	1 0 5	5500	1.85		Forest w/Heavy Litter Kv= 2.5 fps					
1.7	194	i 0.5	5500	1.85		Shallow Concentrated Flow,					
1.2	97	7 0 0	2700	1.30		Forest w/Heavy Litter Kv= 2.5 fps					
1.2	91	0.2	2700	1.30		Shallow Concentrated Flow,					
3.8	234	1 0 1	700	1.03		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,					
3.0	232	r U. I	700	1.03		Forest w/Heavy Litter Kv= 2.5 fps					
18.6	680) To	tal			1 Olest Willeavy Litter 11v- 2.3 Ips					
10.0	000	, 10	ıaı								

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Summary for Subcatchment 36S: WS 6C

Runoff = 4.53 cfs @ 12.20 hrs, Volume= 0.399 af, Depth= 2.13"

Area	(ac)	CN D	escription							
0.	.000	98 U	vious, HSG A							
0.000 98 Untreated existing impervious, HSG C										
0.000 98 Untreated existing impervious, HSG D										
0.000 98 Existing impervious to be treated as offset, HSG D										
0.000 30 Existing meadow, non-grazed, HSG A										
0.000 71 Existing meadow, non-grazed, HSG C										
0.	.000	78 E	xisting mea	dow, non-gr	azed, HSG D					
0.	.000	30 E	kisting Woo	ds, Good, H	ISG A					
0.	.000	70 E	kisting Woo	ds, Good, H	ISG C					
0.	.784	77 E	kisting Woo	ds, Good, H	ISG D					
	.000	70 P	oposed Wo	ods, Good,	HSG C					
	.244			ods, Good,						
	.000				pe treated, HSG C					
	.000				pe treated, HSG D					
	.000				ervious, HSG C					
	.214				ervious, HSG D					
	.000				adow, non-grazed, HSG C					
	.396				adow, non-grazed, HSG D					
	.000				adow to be treated, HSG C					
	.000				adow to be treated, HSG D					
	.000			adow, ski tr						
	.611			adow, ski tr						
	.000			adow, ski lif						
	.000		_	adow, ski lif	เ, ทอน บ					
	.249		eighted Av							
	.035 .214).48% Perv							
U.	.214	9.	52% Imper	vious Area						
Тс	Length	Slop	e Velocit	/ Capacity	Description					
(min)	(feet)				Beschption					
8.0	100				Sheet Flow,					
0.0	100	0.120	0.2	l	n= 0.240 P2= 2.40"					
0.6	29	0.120	0.87	7	Shallow Concentrated Flow,					
0.0	23	0.120	0.07		Forest w/Heavy Litter Kv= 2.5 fps					
0.2	82	0.150	00 7.25	14.50						
0.2	02	0.100	7.20	14.00	Bot.W=2.00' D=1.00' n= 0.050					
7.1	281	0.070	0.66	3	Shallow Concentrated Flow,					
	201	0.07	0.00	•	Forest w/Heavy Litter Kv= 2.5 fps					
10.0	150	0.010	0.25	5	Shallow Concentrated Flow,					
	. 30	2.0.0			Forest w/Heavy Litter Kv= 2.5 fps					
25.9	642	Total								

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Summary for Subcatchment 37S: WS 7

Runoff = 2.45 cfs @ 12.05 hrs, Volume= 0.149 af, Depth= 2.05"

Area	(ac) C	N Des	cription							
0.	0.000 98 Untreated existing impervious, HSG A									
0.	.000				rious, HSG C					
0.	.056	98 Unti	reated exis	ting imperv	rious, HSG D					
0.000 98 Existing impervious to be treated as offset, HSG D										
0.000 30 Existing meadow, non-grazed, HSG A										
0.000 71 Existing meadow, non-grazed, HSG C										
0.000 78 Existing meadow, non-grazed, HSG D										
0.	0.000 30 Existing Woods, Good, HSG A									
0.	.000	70 Exis	sting Wood	s, Good, H	SG C					
0.	.774	77 Exis	sting Wood	s, Good, H	SG D					
0.	.000	70 Pro	oosed Woo	ods, Good,	HSG C					
0.	.000	77 Proj	oosed Woo	ods, Good,	HSG D					
0.					e treated, HSG C					
					e treated, HSG D					
					rvious, HSG C					
					rvious, HSG D					
					ndow, non-grazed, HSG C					
					ndow, non-grazed, HSG D					
					dow to be treated, HSG C					
					adow to be treated, HSG D					
				idow, ski tra						
				idow, ski tra						
				dow, ski lif						
				dow, ski lif	t, HSG D					
	-		ghted Ave							
	.816		8% Pervio							
0.	.056	6.42	2% Impervi	ous Area						
T .	1	01	V/-124	0	December					
Tc	Length		Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
10.7	43	0.1200	0.07		Sheet Flow,					
4.0	00	0.4000	0.70		Woods: Dense underbrush n= 0.800 P2= 2.40"					
1.9	92	0.1000	0.79		Shallow Concentrated Flow,					
0.0	050	0.0500	40.00	400.00	Forest w/Heavy Litter Kv= 2.5 fps					
0.3	253	0.0500	16.63	166.28	Trap/Vee/Rect Channel Flow,					
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'					
0.4	400	0.0000	04.00	040.00	n= 0.022 Earth, clean & straight					
0.1	130	0.0800	21.03	210.33	Trap/Vee/Rect Channel Flow,					
					Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00'					
40.0	540	T. ()			n= 0.022 Earth, clean & straight					
13.0	518	Total								

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Summary for Subcatchment 38S: WS 7A

Runoff = 14.91 cfs @ 11.93 hrs, Volume= 0.664 af, Depth= 2.73"

Area	(ac) C	N Desc	cription								
0.	.000	Untreated existing impervious, HSG A									
0.000 98 Untreated existing impervious, HSG C											
0.000 98 Untreated existing impervious, HSG D											
0.099 98 Existing impervious to be treated as offset, HSG D											
0.000 30 Existing meadow, non-grazed, HSG A											
0.000 71 Existing meadow, non-grazed, HSG C											
0.000 78 Existing meadow, non-grazed, HSG D											
0.	.000	30 Exist	ting Wood	s, Good, H	SG A						
0.	.000	70 Exis	ting Wood	s, Good, H	SG C						
0.	331	77 Exis	ting Wood	s, Good, H	SG D						
0.	000	70 Prop	osed Woo	ds, Good,	HSG C						
0.	000	77 Prop	osed Woo	ds, Good,	HSG D						
0.	.000	98 Prop	osed impe	ervious to b	e treated, HSG C						
1.			osed impe	ervious to b	e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					ndow, non-grazed, HSG C						
					dow, non-grazed, HSG D						
					dow to be treated, HSG C						
					adow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lif							
				dow, ski lif	t, HSG D						
		•	ghted Aver	•							
	751		5% Pervio								
1.	170	40.0	5% Imper	vious Area							
_		01			B						
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
1.4	100	0.0200	1.19		Sheet Flow,						
					Smooth surfaces n= 0.011 P2= 2.40"						
0.2	33	0.0200	2.87		Shallow Concentrated Flow,						
					Paved Kv= 20.3 fps						
0.1	37	0.4600	4.75		Shallow Concentrated Flow,						
	•				Short Grass Pasture Kv= 7.0 fps						
0.5	86	0.1400	2.62		Shallow Concentrated Flow,						
		0.4005	4		Short Grass Pasture Kv= 7.0 fps						
0.2	190	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.022						
2.4	446	Total									

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Summary for Subcatchment 39S: WS 7B

Runoff = 3.14 cfs @ 11.97 hrs, Volume= 0.151 af, Depth= 2.05"

Area	(ac) C	N Des	cription									
0	0.000 98 Untreated existing impervious, HSG A											
0.	.000	98 Untr										
0.	.000											
0.000 98 Existing impervious to be treated as offset, HSG D												
0.000 30 Existing meadow, non-grazed, HSG A												
0.000 71 Existing meadow, non-grazed, HSG C												
0.	0.000 78 Existing meadow, non-grazed, HSG D											
			ting Wood	s, Good, H	SG A							
0.	.000			s, Good, H								
				s, Good, H								
0.			osed Woo	ods, Good,	HSG C							
0.				ods, Good,								
0.	.000	98 Prop	osed impe	ervious to b	e treated, HSG C							
					pe treated, HSG D							
					rvious, HSG C							
					rvious, HSG D							
					adow, non-grazed, HSG C							
					adow, non-grazed, HSG D							
					adow to be treated, HSG C							
					adow to be treated, HSG D							
				idow, ski tra								
				dow, ski tra								
				dow, ski lif								
				dow, ski lif	t, HSG D							
			ghted Ave									
0	.886	100	.00% Perv	ious Area								
_		٥.										
Tc	Length		Velocity	Capacity	Description							
(min)	(feet)		(ft/sec)	(cfs)								
4.1	51	0.1700	0.21		Sheet Flow,							
					Grass: Dense n= 0.240 P2= 2.40"							
0.3	57	0.1700	2.89		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
1.0	146	0.1100	2.32		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
0.0	13	0.4600	4.75		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
0.5	67	0.1200	2.42		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
5.9	334	Total										

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Summary for Subcatchment 40S: WS 7C

Runoff = 14.02 cfs @ 12.13 hrs, Volume= 1.069 af, Depth= 1.89"

Area	(ac) C	N Desc	cription		
0.	.000	98 Untr	eated exis	ting imperv	ious, HSG A
0.					ious, HSG C
				• .	ious, HSG D
					treated as offset, HSG D
					azed, HSG A
			0	,	azed, HSG C
					azed, HSG D
				s, Good, H	
			•	s, Good, H	
			•	s, Good, H	
			•	ds, Good,	
				ds, Good,	
					e treated, HSG C
0.					e treated, HSG D
0.					rvious, HSG C
0.	147				rvious, HSG D
0.	492	71 Prop	osed deve	eloped mea	dow, non-grazed, HSG C
0.	644	78 Prop	osed deve	eloped mea	dow, non-grazed, HSG D
0.	000	71 Prop	osed deve	eloped mea	dow to be treated, HSG C
0.	000	78 Prop	osed deve	eloped mea	dow to be treated, HSG D
0.	000	71 Prop	osed mea	dow, ski tra	ail, HSG C
0.	006	78 Prop	osed mea	dow, ski tra	ail, HSG D
0.	000	71 Prop	osed mea	dow, ski lift	t, HSG C
0.	000	78 Prop	osed mea	dow, ski lift	t, HSG D
6.	774	76 Weig	ghted Aver	age	
6.	355	93.8	1% Pervio	us Area	
0.	419	6.19	% Impervi	ous Area	
			·		
Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	·
10.8	65	0.2700	0.10		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
7.4	508	0.2100	1.15		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.4	107	0.0400	4.58	54.96	Trap/Vee/Rect Channel Flow,
					Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00'
					n= 0.069 Riprap, 6-inch
0.5	407	0.1600	12.66	142.37	Trap/Vee/Rect Channel Flow,
					Bot.W=6.00' D=1.50' Z= 1.0 '/ Top.W=9.00'
					n= 0.050 Mountain streams w/large boulders
1.0	57	0.1400	0.94		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
20.1	1,144	Total			

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Summary for Subcatchment 41S: WS 7D

Runoff = 4.10 cfs @ 12.03 hrs, Volume= 0.238 af, Depth= 2.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 25-Year Rainfall=4.20"

Area	(ac) C	N Des	cription						
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A				
0.000 98 Untreated existing impervious, HSG C									
0.000 98 Untreated existing impervious, HSG D									
0.000 98 Existing impervious to be treated as offset, HSG D									
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A				
					azed, HSG C				
					azed, HSG D				
				s, Good, H					
				s, Good, H					
				s, Good, H					
				ds, Good,					
				ds, Good,					
					e treated, HSG C				
					e treated, HSG D				
					rvious, HSG C				
					rvious, HSG D				
					dow, non-grazed, HSG C				
					adow, non-grazed, HSG D				
					adow to be treated, HSG C				
					adow to be treated, HSG D				
				dow, ski tra					
				dow, ski tra					
				dow, ski lift					
				dow, ski lift	t, HSG D				
			ghted Aver						
	679		4% Pervio						
0.	405	37.3	6% Imper	ious Area					
Тс	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
10.8	57	0.2100	0.09	,	Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
0.5	99	0.2100	3.21		Shallow Concentrated Flow,				
					Short Grass Pasture Kv= 7.0 fps				
11.3	156	Total							

Summary for Subcatchment 42S: WS 7E

Runoff = 6.99 cfs @ 12.08 hrs, Volume= 0.466 af, Depth= 2.21"

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Area	(ac) C	N Des	cription										
		98 Untr	Untreated existing impervious, HSG A										
0.000 98 Untreated existing impervious, HSG C													
0.000 98 Untreated existing impervious, HSG D													
0.000 98 Existing impervious to be treated as offset, HSG D													
0.000 30 Existing meadow, non-grazed, HSG A													
0.000 71 Existing meadow, non-grazed, HSG C													
0.000 78 Existing meadow, non-grazed, HSG D													
				s, Good, H									
				s, Good, H									
				s, Good, H									
				ds, Good, I									
				ds, Good, I									
0.	.000				e treated, HSG C								
0.	.000				e treated, HSG D								
0.	.000	98 Untr	eated prop	osed impe	rvious, HSG C								
0.	.310	98 Untr	eated prop	osed impe	rvious, HSG D								
0.	.000	71 Prop	osed deve	loped mea	dow, non-grazed, HSG C								
0.	.879	78 Prop	osed deve	loped mea	dow, non-grazed, HSG D								
					dow to be treated, HSG C								
					dow to be treated, HSG D								
				dow, ski tra									
				dow, ski tra									
				dow, ski lift									
0.	.000			dow, ski lift	; HSG D								
			ghted Aver										
	.221		5% Pervio										
0.	.310	12.2	5% Imper	∕ious Area									
Tc	Length	Slope	Velocity	Capacity	Description								
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)									
10.7	63	0.2600	0.10		Sheet Flow,								
					Woods: Dense underbrush n= 0.800 P2= 2.40"								
0.9	70	0.2600	1.27		Shallow Concentrated Flow,								
					Forest w/Heavy Litter Kv= 2.5 fps								
8.0	85	0.4700	1.71		Shallow Concentrated Flow,								
					Forest w/Heavy Litter Kv= 2.5 fps								
1.7	179	0.4700	1.71		Shallow Concentrated Flow,								
					Forest w/Heavy Litter Kv= 2.5 fps								
1.7	119	0.2200	1.17		Shallow Concentrated Flow,								
					Forest w/Heavy Litter Kv= 2.5 fps								
15.8	516	Total											

Summary for Subcatchment 43S: WS 7F

Runoff = 14.75 cfs @ 12.05 hrs, Volume= 0.895 af, Depth= 2.29"

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Area	(ac) C	N Des	cription								
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A						
0.	000		Intreated existing impervious, HSG C								
0.	000		Intreated existing impervious, HSG D								
0.	000				treated as offset, HSG D						
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A						
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C						
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D						
0.	000			s, Good, H							
0.	000	70 Exis	ting Wood	s, Good, H	SG C						
2.	397	77 Exis	ting Wood	s, Good, H	SG D						
0.	000	70 Prop	osed Woo	ods, Good,	HSG C						
0.	000	77 Prop	osed Woo	ods, Good,	HSG D						
0.	000	98 Prop	osed impe	ervious to b	e treated, HSG C						
0.	000	98 Prop	osed impe	ervious to b	e treated, HSG D						
0.	003	98 Untr	eated prop	osed impe	rvious, HSG C						
0.	710	98 Untr	eated prop	osed impe	rvious, HSG D						
0.	001	71 Prop	osed deve	eloped mea	ndow, non-grazed, HSG C						
1.	.579 78 Proposed developed meadow, non-grazed, HSG D										
0.	000	71 Prop	osed deve	eloped mea	ndow to be treated, HSG C						
		78 Proposed developed meadow to be treated, HSG D									
0.											
				idow, ski tra							
0.	000	71 Prop	osed mea	idow, ski lif	t, HSG C						
0.	000	78 Prop	osed mea	idow, ski lif	t, HSG D						
4.	690	31 Weig	ghted Avei	rage							
3.	977	84.8	0% Pervio	us Area							
0.	713	15.2	0% Imper	vious Area							
			·								
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
10.7	73	0.3500	0.11		Sheet Flow,						
					Woods: Dense underbrush n= 0.800 P2= 2.40"						
1.7	147	0.3500	1.48		Shallow Concentrated Flow,						
					Forest w/Heavy Litter Kv= 2.5 fps						
0.4	286	0.2400	12.55	100.38	Trap/Vee/Rect Channel Flow,						
					Bot.W=8.00' D=1.00' n= 0.050						
0.2	170	0.2900	14.15	127.33	Trap/Vee/Rect Channel Flow,						
					Bot.W=8.00' D=1.00' Z= 1.0 '/ Top.W=10.00'						
					n= 0.050						
13.0	676	Total									

Summary for Subcatchment 44S: WS 7G

Runoff = 7.86 cfs @ 12.20 hrs, Volume= 0.693 af, Depth= 2.29"

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Area (ac) C	N Desc	cription								
0.0	000	8 Untr	eated exist	ting imperv	ious, HSG A						
0.0	000				ious, HSG C						
			Intreated existing impervious, HSG D								
			xisting impervious to be treated as offset, HSG D								
					azed, HSG A						
					azed, HSG C						
					azed, HSG D						
				s, Good, H							
				s, Good, H							
				s, Good, H							
				ds, Good,							
				ds, Good,							
			•		e treated, HSG C						
					e treated, HSG D rvious, HSG C						
					rvious, HSG D						
					idow, non-grazed, HSG C						
					idow, non-grazed, HSG D						
					idow to be treated, HSG C						
					idow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lift							
0.0				dow, ski lift							
3.6	331 8	31 Weig	hted Aver	age							
3.0	081		5% Pervio								
0.5	550	15.1	5% Imperv	ious Area							
т.		01	M. L	0	Description						
	Length	Slope	Velocity	Capacity	Description						
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)							
7.4	100	0.1500	0.23		Sheet Flow,						
4.0	7.	0.4500	0.07		Grass: Dense n= 0.240 P2= 2.40"						
1.3	75	0.1500	0.97		Shallow Concentrated Flow,						
0.0	20	0.5000	4 77		Forest w/Heavy Litter Kv= 2.5 fps						
0.3	28	0.5000	1.77		Shallow Concentrated Flow,						
1 1	104	0.4000	0.70		Forest w/Heavy Litter Kv= 2.5 fps						
4.1	194	0.1000	0.79		Shallow Concentrated Flow,						
4.6	181	0.0700	0.66		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,						
4.0	101	0.0700	0.00								
8.2	276	0.0500	0.56		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,						
0.2	210	0.0000	0.50		Forest w/Heavy Litter Kv= 2.5 fps						
0.2	53	0.0400	4.33	12.98	Trap/Vee/Rect Channel Flow,						
0.2	55	0.0400	7.00	12.30	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.050 Mountain streams w/large boulders						
26.1	907	Total			11 0.000 Mountain streams wharge boulders						
20.1	307	ıvıaı									

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Summary for Subcatchment 45S: WS 7H

Runoff = 7.43 cfs @ 11.99 hrs, Volume= 0.374 af, Depth= 1.82"

Area	(ac) C	N Des	cription							
0.	.000	98 Untr	Untreated existing impervious, HSG A							
0.	.000		Untreated existing impervious, HSG C							
0.	.000	98 Untr	Untreated existing impervious, HSG D							
0.	.000				treated as offset, HSG D					
0.	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A					
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C					
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
0.	.000	30 Exis	ting Wood	s, Good, H	SG A					
0.	.619	70 Exis	ting Wood	s, Good, H	SG C					
			ting Wood	s, Good, H	SG D					
				ds, Good,						
				ds, Good,						
			•		e treated, HSG C					
			•		e treated, HSG D					
				•	rvious, HSG C					
					rvious, HSG D					
				•	adow, non-grazed, HSG C					
			Proposed developed meadow, non-grazed, HSG D							
			Proposed developed meadow to be treated, HSG C							
			Proposed developed meadow to be treated, HSG D							
			Proposed meadow, ski trail, HSG C							
			Proposed meadow, ski trail, HSG D Proposed meadow, ski lift, HSG C							
				dow, ski lift						
			ghted Aver		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	.132		9% Pervio							
	.336			ious Area						
			. ,							
Tc	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	•					
0.9	100	0.0600	1.85	, ,	Sheet Flow,					
					n= 0.011 P2= 2.40"					
0.5	18	0.0600	0.61		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.3	31	0.4800	1.73		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
3.3	196	0.1600	1.00		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
2.6	158	0.1600	1.00		Shallow Concentrated Flow,					
. .			0.40	40.45	Forest w/Heavy Litter Kv= 2.5 fps					
0.1	56	0.0900	6.49	19.48	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.050					

Prepared by VHB

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7.7 559 Total

Summary for Subcatchment 46S: WS 8

Runoff = 1.13 cfs @ 12.03 hrs, Volume= 0.066 af, Depth= 2.29"

Area	(ac) (CN Des	scription							
0.	000	98 Unt	reated exis	ting imperv	vious, HSG A					
0.	000		Untreated existing impervious, HSG C							
0.	066	98 Unt	reated exis	ting imperv	vious, HSG D					
0.	000	98 Exi	sting imper	vious to be	treated as offset, HSG D					
0.	000	30 Exi	sting mead	ow, non-gra	azed, HSG A					
0.	000		sting mead	ow, non-gra	azed, HSG C					
			sting mead	ow, non-gra	azed, HSG D					
0.	000	30 Exi	sting Wood	s, Good, H	SG A					
0.	000	70 Exi	sting Wood	s, Good, H	SG C					
	277		sting Wood							
	000		posed Woo							
	000		posed Woo							
					pe treated, HSG C					
					pe treated, HSG D					
					ervious, HSG C					
			Jntreated proposed impervious, HSG D							
	000		Proposed developed meadow, non-grazed, HSG C							
	001		Proposed developed meadow, non-grazed, HSG D							
	000		Proposed developed meadow to be treated, HSG C							
	000				adow to be treated, HSG D					
	000		posed mea							
			posed mea							
	000		posed mea							
-	000		posed mea		t, HSG D					
			ighted Ave	•						
	278		81% Pervic							
0.	066	19.	19% Imper	vious Area						
_										
Tc	Length			Capacity	Description					
(min)	(feet)			(cfs)						
10.9	40	0.1000	0.06		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
0.2	11	0.1000	0.79		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
0.4	276	0.0600	12.05	36.14	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.022					
11.5	327	Total								

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Summary for Subcatchment 47S: WS 9

Runoff = 0.51 cfs @ 12.03 hrs, Volume= 0.029 af, Depth= 2.37"

Area ((ac) (CN Des	cription						
0.0	000	98 Unti	reated exis	ting imperv	rious, HSG A				
0.0	000	98 Untı	Untreated existing impervious, HSG C						
0.0	036	98 Untı	reated exis	ting imperv	rious, HSG D				
0.0	000	98 Exis	ting imper	vious to be	treated as offset, HSG D				
0.0			ting mead	ow, non-gra	azed, HSG A				
0.0			ting mead	ow, non-gra	azed, HSG C				
0.0	000	78 Exis	ting mead	ow, non-gra	azed, HSG D				
				s, Good, H					
0.0	000			s, Good, H					
				s, Good, H					
				ds, Good,					
				ds, Good,					
					pe treated, HSG C				
					oe treated, HSG D				
			Untreated proposed impervious, HSG C						
			Untreated proposed impervious, HSG D						
			Proposed developed meadow, non-grazed, HSG C						
			Proposed developed meadow, non-grazed, HSG D						
					adow to be treated, HSG C				
					adow to be treated, HSG D				
				dow, ski tra					
				dow, ski tra					
				dow, ski lift					
				dow, ski lif	t, HSG D				
			ghted Aver						
	112		88% Pervio						
0.0	036	24.3	32% Imper	/ious Area					
Тс	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
10.9	38	0.0900	0.06		Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
0.2	173	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,				
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'				
					n= 0.022				
11.1	211	Total							

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Summary for Subcatchment 48S: WS 10

Runoff = 4.18 cfs @ 11.99 hrs, Volume= 0.210 af, Depth= 2.05"

Area	(ac)	C١	N Desc	cription							
0	.000	98	3 Untr	eated exis	ting imperv	ious, HSG A					
0	.000	98		Untreated existing impervious, HSG C							
0	.000	98	3 Untr	eated exis	ting imperv	ious, HSG D					
0	.000	98	B Exist	ting imper	vious to be	treated as offset, HSG D					
0	.000	30) Exist	ting mead	ow, non-gra	azed, HSG A					
0	.000	71	1 Exist	ting mead	ow, non-gra	azed, HSG C					
0	.000	78	B Exist	ting mead	ow, non-gra	azed, HSG D					
0	.000	30) Exist	ting Wood	s, Good, H	SG A					
0	.000	70) Exist	ting Wood	s, Good, H	SG C					
0	.332	77	7 Exist	ting Wood	s, Good, H	SG D					
0	.000	70) Prop	osed Woo	ds, Good,	HSG C					
0	.175	77		osed Woo	ds, Good,	HSG D					
	.000	98				e treated, HSG C					
	.000	98				e treated, HSG D					
	.000	98				rvious, HSG C					
	.000	98				rvious, HSG D					
	.000	71				dow, non-grazed, HSG C					
	.208	78				dow, non-grazed, HSG D					
	.000	7			•	dow to be treated, HSG C					
	.000	78				dow to be treated, HSG D					
	.000	7			dow, ski tra						
	.513	78			dow, ski tra						
	.000	7			dow, ski lift						
	.000	78			dow, ski lift	; HSG D					
	.228	78		ghted Aver							
1	.228		100.	00% Pervi	ous Area						
_			٥.								
Tc			Slope	Velocity	Capacity	Description					
(min)	(fee		(ft/ft)	(ft/sec)	(cfs)						
4.2	(38	0.0900	0.15		Sheet Flow,					
						Grass: Dense n= 0.240 P2= 2.40"					
0.7	8	34	0.0900	2.10		Shallow Concentrated Flow,					
						Short Grass Pasture Kv= 7.0 fps					
1.1	7	79	0.2300	1.20		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
1.6	10	06	0.1900	1.09		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
7.6	30	07	Total								

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Summary for Subcatchment 49S: WS 10A

Runoff = 8.73 cfs @ 12.03 hrs, Volume= 0.497 af, Depth= 2.05"

Area	(ac)	CN I	Desc	cription							
0.	.000	98 l	Untre	eated exis	ting imperv	ious, HSG A					
0.	.000	98 I	Untreated existing impervious, HSG C								
0.	.000	98 I	Untreated existing impervious, HSG D								
0.	.000	98 I	Exist	ing imper	vious to be	treated as offset, HSG D					
0.	.000	30 I	Exist	ing mead	ow, non-gra	azed, HSG A					
0.	.000	71 I	Exist	ing mead	ow, non-gra	azed, HSG C					
0.	.000	78 I	Exist	ing mead	ow, non-gra	azed, HSG D					
0.	.000	30 I	Exist	ing Wood	s, Good, H	SG A					
0.	.000	70 I	Exist	ing Wood	s, Good, H	SG C					
0.	.000	77 I	Exist	ing Wood	s, Good, H	SG D					
0.	.003	70 I	Prop	osed Woo	ds, Good, I	HSG C					
0.	.037	77 I	Prop	osed Woo	ds, Good, l	HSG D					
	.000					e treated, HSG C					
	.000					e treated, HSG D					
	.000					rvious, HSG C					
	.184					rvious, HSG D					
	.194		Proposed developed meadow, non-grazed, HSG C								
	.430		Proposed developed meadow, non-grazed, HSG D								
	.000				•	dow to be treated, HSG C					
	.000					dow to be treated, HSG D					
	.172				dow, ski tra						
	.891				dow, ski tra						
	.000				dow, ski lift						
	.000				dow, ski lift	; HSG D					
	.911			hted Aver							
	.727			8% Pervio							
0.	.184	(6.32	% Impervi	ous Area						
Tc	Length		ope	Velocity	Capacity	Description					
<u>(min)</u>	(feet	, ,	t/ft)	(ft/sec)	(cfs)						
6.3	100	0.22	200	0.26		Sheet Flow,					
						Grass: Dense n= 0.240 P2= 2.40"					
0.9	122	2 0.11	100	2.32		Shallow Concentrated Flow,					
						Short Grass Pasture Kv= 7.0 fps					
1.0	154	4 0.14	400	2.62		Shallow Concentrated Flow,					
						Short Grass Pasture Kv= 7.0 fps					
2.8	204	1 0.24	400	1.22		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
11.0	580) Tota	al								

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Summary for Subcatchment 50S: WS 10B

Runoff = 13.30 cfs @ 12.09 hrs, Volume= 0.910 af, Depth= 1.82"

Area	(ac) C	CN Des	cription							
0.	000	98 Untr	eated exis	ting imperv	rious, HSG A					
0.	000	98 Untr	Untreated existing impervious, HSG C							
0.	000	98 Untr	eated exis	ting imperv	vious, HSG D					
0.	000	98 Exis	ting imper	vious to be	treated as offset, HSG D					
0.	000	30 Exis	ting mead	ow, non-gra	azed, HSG A					
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C					
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
0.	000	30 Exis	ting Wood	s, Good, H	SG A					
0.	876	70 Exis	ting Wood	s, Good, H	SG C					
0.	149			s, Good, H						
1.	162	70 Prop	osed Woo	ds, Good,	HSG C					
			osed Woo	ds, Good,	HSG D					
					pe treated, HSG C					
					pe treated, HSG D					
					ervious, HSG C					
					ervious, HSG D					
					adow, non-grazed, HSG C					
			Proposed developed meadow, non-grazed, HSG D							
					adow to be treated, HSG C					
					adow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lif						
				dow, ski lif	t, HSG D					
			ghted Aver							
	152		7% Pervio							
0.	855	14.2	3% Imper	∕ious Area						
Tc	Length		Velocity	Capacity	Description					
(min)	(feet)		(ft/sec)	(cfs)						
10.8	56	0.2000	0.09		Sheet Flow,					
					Woods: Dense underbrush n= 0.800 P2= 2.40"					
4.5	355	0.2800	1.32		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
1.2	533	0.1200	7.50	22.49	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.050 Mountain streams w/large boulders					
16.5	944	Total								

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Summary for Subcatchment 51S: WS 10C

Runoff = 4.71 cfs @ 12.07 hrs, Volume= 0.306 af, Depth= 2.37"

Area	(ac)	CN	Desc	cription							
0.	000	98	Untre	eated exis	ting imperv	rious, HSG A					
0.	000	98	Untre	Jntreated existing impervious, HSG C							
0.	000	98	Untre	eated exis	ting imperv	rious, HSG D					
0.	000	98	Exist	ting imperv	ious to be	treated as offset, HSG D					
0.	000	30	Exist	ing meado	ow, non-gra	azed, HSG A					
	000					azed, HSG C					
	000					azed, HSG D					
	000			_	s, Good, H						
	003				s, Good, H						
	288				s, Good, H						
	000				ds, Good,						
	000				ds, Good,						
	196					e treated, HSG C					
	282					e treated, HSG D					
	000					rvious, HSG C					
	000		Untreated proposed impervious, HSG D								
	000		Proposed developed meadow, non-grazed, HSG C								
	000					idow, non-grazed, HSG D					
	364					idow to be treated, HSG C					
	413					dow to be treated, HSG D					
	000				dow, ski tra						
	000				dow, ski tra						
	000				dow, ski lift						
	000				dow, ski lift	I, H5G D					
	546			hted Aver							
	068			8% Pervio							
U.	478		30.9	2% imperv	ious Area						
Tc	Lengtl	h Sl	ope	Velocity	Capacity	Description					
(min)	(feet		ft/ft)	(ft/sec)	(cfs)	Description					
10.8	66	, ,	800	0.10	(0.0)	Sheet Flow,					
10.0	0.	0.2	000	0.10		Woods: Dense underbrush n= 0.800 P2= 2.40"					
1.8	146	6 02	800	1.32		Shallow Concentrated Flow,					
		· •				Forest w/Heavy Litter Kv= 2.5 fps					
2.4	162	2 0.2	000	1.12		Shallow Concentrated Flow,					
	. 0.	_		=		Forest w/Heavy Litter Kv= 2.5 fps					
15.0	374	4 Tot	:al			•					

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Summary for Subcatchment 52S: WS 11

Runoff = 7.03 cfs @ 12.04 hrs, Volume= 0.416 af, Depth= 2.05"

Area	(ac) C	N Des	cription							
0.	.000	98 Untr	Untreated existing impervious, HSG A							
0.	.000		Untreated existing impervious, HSG C							
0.	051		Untreated existing impervious, HSG D							
0.	.000				treated as offset, HSG D					
0.	000				azed, HSG A					
0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C					
0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
0.	.000	30 Exis	ting Wood	s, Good, H	SG A					
0.	000	70 Exis	ting Wood	s, Good, H	SG C					
0.	928	77 Exis	ting Wood	s, Good, H	SG D					
0.	000	70 Prop	osed Woo	ds, Good,	HSG C					
0.	259	77 Prop	osed Woo	ds, Good,	HSG D					
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG C					
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG D					
					ervious, HSG C					
					ervious, HSG D					
					adow, non-grazed, HSG C					
					adow, non-grazed, HSG D					
				•	adow to be treated, HSG C					
			Proposed developed meadow to be treated, HSG D							
			Proposed meadow, ski trail, HSG C							
				dow, ski tra						
				dow, ski lif						
		•		dow, ski lif	t, HSG D					
		•	ghted Aver	•						
	389		1% Pervio							
0.	051	2.09	% Impervi	ous Area						
_		٥.								
Tc	Length	Slope	Velocity	Capacity	Description					
(min)_	(feet)	(ft/ft)	(ft/sec)	(cfs)						
8.7	100	0.1000	0.19		Sheet Flow,					
					Grass: Dense n= 0.240 P2= 2.40"					
1.0	130	0.1000	2.21		Shallow Concentrated Flow,					
					Short Grass Pasture Kv= 7.0 fps					
0.3	29	0.4100	1.60		Shallow Concentrated Flow,					
					Forest w/Heavy Litter Kv= 2.5 fps					
1.6	105	0.1900	1.09		Shallow Concentrated Flow,					
	-	0.4005		4 4 5 -	Forest w/Heavy Litter Kv= 2.5 fps					
0.7	216	0.1000	4.96	14.88	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.069 Riprap, 6-inch					
12.3	580	Total								

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Summary for Subcatchment 53S: WS 11A

Runoff = 14.96 cfs @ 11.93 hrs, Volume= 0.697 af, Depth= 3.21"

Area	(ac)	CN	Desc	cription								
	.000	98	Untre	eated exis	ting imperv	rious, HSG A						
	.000	98		Untreated existing impervious, HSG C								
0.	.000	98				rious, HSG D						
0.	.000	98	Exist	ing imper	vious to be	treated as offset, HSG D						
0	.000	30	Exist	ing mead	ow, non-gra	azed, HSG A						
0	.000	71				azed, HSG C						
0.	.000	78	Exist	ing mead	ow, non-gra	azed, HSG D						
0.	.000	30	Exist	ing Wood	s, Good, H	SG A						
0.	.000	70	Exist	ing Wood	s, Good, H	SG C						
	.000	77			s, Good, H							
0.	.000	70	Prop	osed Woo	ds, Good,	HSG C						
0.	.000	77	Prop	osed Woo	ds, Good,	HSG D						
	.000	98				oe treated, HSG C						
	.700	98				pe treated, HSG D						
	.000	98				rvious, HSG C						
	.000	98				rvious, HSG D						
	.000	71				adow, non-grazed, HSG C						
	.000	78				adow, non-grazed, HSG D						
	.000	71				adow to be treated, HSG C						
	.906	78				adow to be treated, HSG D						
	.000	71			dow, ski tra							
	.000	78			dow, ski tra							
	.000	71			dow, ski lif							
	.000	78			dow, ski lif	t, HSG D						
	.606	91		ted Aver								
	.906			7% Pervio								
1.	.700		65.2	3% Imper	vious Area							
_		_										
Tc	Length		lope	Velocity	Capacity	Description						
(min)	(feet		(ft/ft)	(ft/sec)	(cfs)							
0.7	100	0.	1000	2.27		Sheet Flow,						
						Smooth surfaces n= 0.011 P2= 2.40"						
0.2	2	1 0.1	1000	1.66		Sheet Flow,						
						Smooth surfaces n= 0.011 P2= 2.40"						
0.1	70	0.3	3700	9.12		Shallow Concentrated Flow,						
						Grassed Waterway Kv= 15.0 fps						
1.9	249	9 ().(0200	2.22	6.65	Trap/Vee/Rect Channel Flow,						
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
		_				n= 0.069 Riprap, 6-inch						
2.9	440) To	otal									

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Summary for Subcatchment 54S: WS 11B

Runoff = 10.02 cfs @ 11.97 hrs, Volume= 0.492 af, Depth= 2.37"

Area	(ac)	CN D	escription							
0.	000	98 Ui	ntreated exis	sting imperv	rious, HSG A					
0.	000		Untreated existing impervious, HSG C							
0.	000	98 Uı	ntreated exis	sting imperv	rious, HSG D					
0.	000				treated as offset, HSG D					
0.	.000	30 Ex	disting mead	ow, non-gra	azed, HSG A					
0.	.000		disting mead	ow, non-gra	azed, HSG C					
0.	000		isting mead	ow, non-gra	azed, HSG D					
	000		kisting Wood							
	000		kisting Wood							
	.000		kisting Wood							
	000		oposed Woo							
	.000		oposed Woo							
	772				pe treated, HSG C					
	167				pe treated, HSG D					
	000				ervious, HSG C					
	.000		Untreated proposed impervious, HSG D							
	000		Proposed developed meadow, non-grazed, HSG C							
	000		Proposed developed meadow, non-grazed, HSG D							
	233		•	•	adow to be treated, HSG C					
	316				adow to be treated, HSG D					
	000		oposed mea							
	000		oposed mea							
	000		oposed mea							
	000		oposed mea	-	t, HSG D					
	488		eighted Ave							
	549		2.26% Pervio							
0.	939	37	'.74% Imper	vious Area						
т.	المصمطا	Clam	- \/-lit-/	Canacity	December					
Tc (min)	Length			Capacity (cfs)	Description					
(min)	(feet			(CIS)	Oh and Flour					
4.8	100	0.440	0 0.35		Sheet Flow,					
0.1	36	0.440	0 4.64		Grass: Dense n= 0.240 P2= 2.40"					
0.1	30	0.440	0 4.64		Shallow Concentrated Flow,					
1.3	246	0.020	0 3.24	20.06	Short Grass Pasture Kv= 7.0 fps					
1.3	240	0.020	0 3.24	38.86	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00'					
					n= 0.069 Riprap, 6-inch					
6.2	382	2 Total			11- 0.000 Tapiap, 0-111011					
0.2	302	. i Ulai								

12.4

740 Total

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Summary for Subcatchment 55S: WS 12

Runoff = 8.76 cfs @ 12.05 hrs, Volume= 0.521 af, Depth= 2.05"

Area	(ac) C	N Des	cription		
0	.000	98 Untr	eated exis	ting imperv	rious, HSG A
0	.000				rious, HSG C
					rious, HSG D
					treated as offset, HSG D
					azed, HSG A
			•		azed, HSG C
					azed, HSG D
				s, Good, H	
				s, Good, H	
			•	s, Good, H	
				ds, Good,	
				ds, Good,	
					e treated, HSG C
			•		pe treated, HSG D
					rvious, HSG C
0	.000				rvious, HSG D
0	.000				adow, non-grazed, HSG C
0	.243	78 Prop	osed deve	eloped mea	adow, non-grazed, HSG D
0	.000	71 Prop	osed deve	eloped mea	adow to be treated, HSG C
0	.000	78 Prop	osed deve	eloped mea	adow to be treated, HSG D
0	.000	71 Prop	osed mea	dow, ski tra	ail, HSG C
				dow, ski tra	
0	.000	71 Prop	osed mea	dow, ski lif	t, HSG C
0	.000	78 Prop	osed mea	dow, ski lif	t, HSG D
3	.052	78 Weig	ghted Aver	age	
3	.017	98.8	5% Pervio	us Area	
0	.035	1.15	% Impervi	ous Area	
Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
9.5	100	0.0800	0.18		Sheet Flow,
					Grass: Dense n= 0.240 P2= 2.40"
1.5	174	0.0800	1.98		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
0.1	17	0.3500	4.14		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
0.3	204	0.1700	9.95	49.77	Trap/Vee/Rect Channel Flow,
					Bot.W=4.00' D=1.00' Z= 1.0 '/' Top.W=6.00'
					n= 0.050
1.0	245	0.0700	4.15	12.45	
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.069
40.4	- 40				

Summary for Subcatchment 56S: WS 12A

Runoff = 5.54 cfs @ 11.93 hrs, Volume= 0.238 af, Depth= 2.05"

Area	(ac)	CN Des	scription		
0.	.000	98 Unt	reated exis	ting imperv	rious, HSG A
0.	.000				rious, HSG C
0.	.000	98 Unt	reated exis	ting imperv	rious, HSG D
0.	.000				treated as offset, HSG D
0.	.000	30 Exis	sting mead	ow, non-gra	azed, HSG A
0.	.000		sting mead	ow, non-gra	azed, HSG C
0.	.000		sting mead	ow, non-gra	azed, HSG D
	.000		sting Wood	s, Good, H	SG A
0.	.000	70 Exis	sting Wood	s, Good, H	SG C
	.777			s, Good, H	
	.000			ods, Good,	
	.000			ods, Good,	
	.000				e treated, HSG C
	.000				e treated, HSG D
	.012				rvious, HSG C
	.025				rvious, HSG D
	.002				adow, non-grazed, HSG C
	.576				adow, non-grazed, HSG D
	.000		•	•	adow to be treated, HSG C
	.000				adow to be treated, HSG D
	.000			idow, ski tra	
	.000			idow, ski tra	
	.000			idow, ski lif	
	.000			idow, ski lif	t, HSG D
	.392		ighted Aver		
	.355		34% Pervio		
0.	.037	2.60	3% Impervi	ous Area	
То	Longth	Clana	Valacity	Canacity	Description
Tc	Length			Capacity	Description
(min)	(feet)			(cfs)	OL 451
0.4	33	0.0600	1.48		Sheet Flow,
4.4	0.7	0.4000	4.00		Smooth surfaces n= 0.011 P2= 2.40"
1.4	87	0.1600	1.00		Shallow Concentrated Flow,
0.2	25/	0.4000	10.60	104.00	Forest w/Heavy Litter Kv= 2.5 fps
0.3	254	0.1800	12.62	104.09	Trap/Vee/Rect Channel Flow,
					Bot.W=4.00' D=1.50' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
2.2	27/	Total			11- 0.000 Mountain streams whatye boulders
2.2	374	Total			

13.8

801 Total

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Summary for Subcatchment 57S: WS 12B

Runoff = 4.16 cfs @ 12.06 hrs, Volume= 0.263 af, Depth= 1.60"

0.000 98	_	Area	(ac) C	N Des	cription		
0.000 98		0.	000	98 Untr	eated exis	ting imperv	ious, HSG A
0.000 98		0.	000	98 Untr	eated exis	ting imperv	ious, HSG C
0.000 30		0.	000	98 Untr	eated exis	ting imperv	ious, HSG D
0.000 30		0.	000	98 Exis	ting imper	vious to be	treated as offset, HSG D
0.000		0.	000				
0.000 30 Existing Woods, Good, HSG C 0.082 70 Existing Woods, Good, HSG D 0.000 77 Proposed Woods, Good, HSG D 0.000 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG D 0.004 98 Proposed impervious, HSG D 0.046 98 Untreated proposed impervious, HSG D 0.095 71 Proposed developed meadow, non-grazed, HSG D 0.095 71 Proposed developed meadow, non-grazed, HSG D 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 78 Proposed meadow, ski trail, HSG D 0.000 78 Proposed meadow, ski lift, HSG D 0.000 78 Proposed meadow, ski lift, HSG D 1.973 72 Weighted Average 1.923 97.47% Pervious Area 0.050 2.53% Impervious Area T.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40"		0.	000	71 Exis	ting mead	ow, non-gra	azed, HSG C
0.082 70 Existing Woods, Good, HSG C 0.000 77 Existing Woods, Good, HSG C 0.000 70 Proposed Woods, Good, HSG C 0.000 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG D 0.046 98 Untreated proposed impervious, HSG D 0.049 98 Untreated proposed impervious, HSG D 0.995 71 Proposed developed meadow, non-grazed, HSG D 0.000 78 Proposed developed meadow, non-grazed, HSG D 0.000 78 Proposed developed meadow to be treated, HSG D 0.846 71 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG D 0.000 78 Proposed meadow, ski lift, HSG D 1.973 72 Weighted Average 1.923 97.47% Pervious Area 0.050 2.53% Impervious Area T.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" 5hallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps Shallow Concentrated Flow, For		0.	000	78 Exis	ting mead	ow, non-gra	azed, HSG D
0.000		0.			ting Wood	s, Good, H	SG A
0.000					ting Wood	s, Good, H	SG C
0.000 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.004 98 Untreated proposed impervious, HSG C 0.004 98 Untreated proposed impervious, HSG D 0.995 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow, non-grazed, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 78 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski lift, HSG D 0.000 71 Proposed meadow, ski lift, HSG D 0.000 78 Proposed meadow, ski lift, HSG D 1.973 72 Weighted Average 1.923 97.47% Pervious Area 0.050 2.53% Impervious Area Tc Length (fit/ft) (fit/sec) (cfs) Description (min) (feet) Slope Velocity Capacity (ft/ft) (fit/sec) (cfs) Description 1.6 304 0.2000 3.13 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" 4.3 307 0.2300							
0.000 98							
0.000 98							
0.046 98							
0.004 98 Untreated proposed impervious, HSG D 0.995 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 78 Proposed developed meadow to be treated, HSG D 0.846 71 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG D 0.000 71 Proposed meadow, ski lift, HSG C 0.000 78 Proposed meadow, ski lift, HSG D 1.973 72 Weighted Average 1.923 97.47% Pervious Area 0.050 2.53% Impervious Area Tc Length (ft/ft) (ft/sec) (cfs) 7.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" 1.6 304 0.2000 3.13 Shallow Concentrated Flow, Shallow Concentrated Flow, Forest W/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch							
0.995 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow, non-grazed, HSG D 0.000 71 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski lift, HSG D 0.000 71 Proposed meadow, ski lift, HSG D 1.973 72 Weighted Average 1.923 97.47% Pervious Area 0.050 2.53% Impervious Area Tc Length (min) (feet) (ft/ft) (ft/sec) (cfs) Slope Velocity Capacity (cfs) Description 7.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" 1.6 304 0.2000 3.13 Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0'/' Top.W=4.00' n= 0.069 Riprap, 6-inch							
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0.000 71 Proposed meadow, ski lift, HSG C 0.000 78 Proposed meadow, ski lift, HSG D 1.973 72 Weighted Average 1.923 97.47% Pervious Area 0.050 2.53% Impervious Area Tc Length (feet) Slope Velocity (Capacity (ft/sec) (cfs) 7.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0'/' Top.W=4.00' n= 0.069							
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1.973 72 Weighted Average 1.923 97.47% Pervious Area 0.050 2.53% Impervious Area Tc Length Slope Velocity Capacity (ft/ft) (ft/sec) (cfs) 7.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" 1.6 304 0.2000 3.13 Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch							
1.923 97.47% Pervious Area 0.050 2.53% Impervious Area Tc Length Slope Velocity Capacity (ft/ft) (ft/sec) (cfs) 7.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch	_						I, HSG D
Tc Length							
Tc Length (feet) Slope Velocity (cfs) Description 7.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Short Grass Pasture Kv= 2.5 fps 7.2 100 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch							
(min) (feet) (ft/ft) (ft/sec) (cfs) 7.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" 1.6 304 0.2000 3.13 Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch		0.	050	2.53	% Impervi	ous Area	
(min) (feet) (ft/ft) (ft/sec) (cfs) 7.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" 1.6 304 0.2000 3.13 Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch		_		٥.			
7.2 100 0.1600 0.23 Sheet Flow, Grass: Dense n= 0.240 P2= 2.40" 1.6 304 0.2000 3.13 Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch							Description
Grass: Dense n= 0.240 P2= 2.40" 1.6 304 0.2000 3.13 Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch	_					(cfs)	
1.6 304 0.2000 3.13 Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch		7.2	100	0.1600	0.23		•
Short Grass Pasture Kv= 7.0 fps 4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch							
4.3 307 0.2300 1.20 Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch		1.6	304	0.2000	3.13		
Forest w/Heavy Litter Kv= 2.5 fps 0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch		, -					· ·
0.7 90 0.0200 2.22 6.65 Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch		4.3	307	0.2300	1.20		· · · · · · · · · · · · · · · · · · ·
Bot.W=2.00' D=1.00' Z= 1.0 '/ Top.W=4.00' n= 0.069 Riprap, 6-inch							
n= 0.069 Riprap, 6-inch		0.7	90	0.0200	2.22	6.65	
							n= 0.069 Riprap, 6-inch

Summary for Subcatchment 58S: WS 12C

Runoff = 7.88 cfs @ 12.08 hrs, Volume= 0.524 af, Depth= 2.05"

Area	(ac) (CN Des	scription		
0.	.000	98 Unt	reated exis	ting imperv	rious, HSG A
					rious, HSG C
					rious, HSG D
					treated as offset, HSG D
0.	000				azed, HSG A
0.	000				azed, HSG C
0.	000				azed, HSG D
0.	000			s, Good, H	
0.	595			s, Good, H	
0.	000			s, Good, H	
0.	366	70 Pro	posed Woo	ods, Good,	HSG C
0.	000	77 Pro	posed Woo	ods, Good,	HSG D
0.	000	98 Pro	posed imp	ervious to b	pe treated, HSG C
0.	000	98 Pro	posed imp	ervious to b	pe treated, HSG D
0.	817	98 Unt	reated pro	osed impe	ervious, HSG C
0.	000	98 Unt	reated proj	osed impe	ervious, HSG D
1.	292	71 Pro	posed devi	eloped mea	adow, non-grazed, HSG C
0.	.000	78 Pro	posed deve	eloped mea	adow, non-grazed, HSG D
			posed deve	eloped mea	adow to be treated, HSG C
					adow to be treated, HSG D
				idow, ski tra	
				idow, ski tra	
				ıdow, ski lif	
0.	.000	78 Pro	posed mea	idow, ski lif	t, HSG D
3.	070	78 We	ighted Ave	rage	
2.	253	73.	39% Pervio	us Area	
0.	817	26.	31% Imper	vious Area	
Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
10.8	50	0.1600	0.08		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
3.1	185	0.1600	1.00		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.4	257	0.2000	10.34	41.36	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
					n= 0.050 Mountain streams w/large boulders
1.4	103	0.2500	1.25		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
15.7	595	Total			

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Summary for Subcatchment 59S: WS 12D

Runoff = 5.72 cfs @ 12.05 hrs, Volume= 0.348 af, Depth= 2.29"

Aroa	(00)	N Do	corintian		
Area			scription	4i.a. a. i.a.a. a. m.	diana LICC A
					rious, HSG A
					rious, HSG C rious, HSG D
					treated as offset, HSG D
					azed, HSG A azed, HSG C
					azed, HSG D
			sting Wood sting Wood		
			sting Wood		
			posed Woo		
			posed Woo		
					pe treated, HSG C
					be treated, HSG D
					ervious, HSG C
					ervious, HSG D
					adow, non-grazed, HSG C
					adow, non-grazed, HSG D
					adow to be treated, HSG C
					adow to be treated, HSG D
			posed mea		
			posed mea		
			posed mea		
			posed mea		
			ighted Ave		,
	337		34% Pervio		
	486		66% Imper		
Tc	Length	Slope	e Velocity	Capacity	Description
(min)	(feet)			(cfs)	·
10.9	49	0.1500	0.07		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
1.4	83	0.1500	0.97		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
0.8	184	0.2700	3.64		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
13.1	316	Total			

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Summary for Subcatchment 60S: WS 12E

Runoff = 3.37 cfs @ 12.06 hrs, Volume= 0.211 af, Depth= 2.46"

Area	(ac)	CN	Desc	cription		
0.	000	98	Untre	eated exis	ting imperv	rious, HSG A
0.	000	98	Untre	eated exis	ting imperv	rious, HSG C
0.	.000	98	Untre	eated exis	ting imperv	rious, HSG D
0.	.000	98	Exist	ting imper	vious to be	treated as offset, HSG D
0.	.000	30	Exist	ting mead	ow, non-gra	azed, HSG A
	000	71				azed, HSG C
	000	78	Exist	ting mead	ow, non-gra	azed, HSG D
0.	.000	30	Exist	ting Wood	s, Good, H	SG A
	.000	70			s, Good, H	
	.061	77			s, Good, H	
	.000	70			ds, Good,	
	.000	77			ds, Good,	
	.000	98				e treated, HSG C
	.000	98				e treated, HSG D
	.000	98				rvious, HSG C
	300	98				rvious, HSG D
	053	71				idow, non-grazed, HSG C
	617	78				dow, non-grazed, HSG D
	000	71				dow to be treated, HSG C
	000	78				dow to be treated, HSG D
	000	71			dow, ski tra	
	000	78			dow, ski tra	
	000	71			dow, ski lift	
	000	78			dow, ski lift	t, HSG D
	.031	83	_	ghted Aver	•	
	731			0% Pervio		
0.	300		29.10	0% Imper	/ious Area	
_						
Tc	Lengtl		Slope	Velocity	Capacity	Description
(min)	(feet		(ft/ft)	(ft/sec)	(cfs)	
10.8	6	1 0	.2400	0.09		Sheet Flow,
						Woods: Dense underbrush n= 0.800 P2= 2.40"
1.1	8	1 0	.2400	1.22		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
1.2	10 ⁻	1 0.	.3200	1.41		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
8.0	16	5 0	.2400	3.43		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
13.9	408	8 T	otal			

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Summary for Subcatchment 61S: WS 12F

Runoff = 8.70 cfs @ 12.04 hrs, Volume= 0.509 af, Depth= 2.13"

Area	(ac) C	N Des	cription		
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A
0.	.000				rious, HSG C
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG D
0.	.000	98 Exis	ting imper	vious to be	treated as offset, HSG D
0.	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D
0.	.000	30 Exis	ting Wood	s, Good, H	SG A
0.	.000	70 Exis	ting Wood	s, Good, H	SG C
1.	.236	77 Exis	ting Wood	s, Good, H	SG D
0.	.064			ds, Good,	
				ds, Good,	
0.			osed impe	ervious to b	oe treated, HSG C
0.					oe treated, HSG D
					rvious, HSG C
					rvious, HSG D
					adow, non-grazed, HSG C
					adow, non-grazed, HSG D
					adow to be treated, HSG C
					adow to be treated, HSG D
				dow, ski tra	
				dow, ski tra	
				dow, ski lif	
				dow, ski lif	t, HSG D
			ghted Avei		
	.548		8% Pervio		
0.	.322	11.2	2% Imper	vious Area	
_		01			B
Tc	Length		Velocity	Capacity	Description
<u>(min)</u>	(feet)	. ,	(ft/sec)	(cfs)	
7.4	100	0.1500	0.23		Sheet Flow,
			–		Grass: Dense n= 0.240 P2= 2.40"
2.7	185	0.2100	1.15		Shallow Concentrated Flow,
2.4	0.5-		40.04	44.00	Forest w/Heavy Litter Kv= 2.5 fps
0.4	257	0.2000	10.34	41.36	Trap/Vee/Rect Channel Flow,
					Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
4 4	400	0.0500	4.05		n= 0.050 Mountain streams w/large boulders
1.4	103	0.2500	1.25		Shallow Concentrated Flow,
44.0	0.45	T.4.1			Forest w/Heavy Litter Kv= 2.5 fps
11.9	645	Total			

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Summary for Subcatchment 62S: WS 12G

Runoff = 11.77 cfs @ 12.16 hrs, Volume= 0.949 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 25-Year Rainfall=4.20"

Ar	ea (a	ac) C	N Des	cription		
	0.0	00 9	98 Untr	eated exis	ting imperv	ious, HSG A
	0.0	00 9	98 Untr	eated exis	ting imperv	ious, HSG C
	0.0	00 9	98 Untr	eated exis	ting imperv	ious, HSG D
	0.0			ting imper	vious to be	treated as offset, HSG D
	0.0			ting meado	ow, non-gra	azed, HSG A
	0.0			ting meado	ow, non-gra	azed, HSG C
	0.0			ting meado	ow, non-gra	azed, HSG D
	0.0			ting Wood:	s, Good, H	SG A
	0.0			ting Wood	s, Good, H	SG C
	1.43			ting Wood:	s, Good, H	SG D
	0.6				ds, Good, l	
	0.34	40 7	77 Prop	osed Woo	ds, Good, l	HSG D
	0.0	00 9	98 Prop	osed impe	ervious to b	e treated, HSG C
	0.0					e treated, HSG D
	0.0					rvious, HSG C
	0.5					rvious, HSG D
	0.0					dow, non-grazed, HSG C
	1.14					dow, non-grazed, HSG D
	0.0				•	dow to be treated, HSG C
	0.0					dow to be treated, HSG D
	0.9				dow, ski tra	
	0.6				dow, ski tra	
	0.0				dow, ski lift	
	0.0				dow, ski lift	I, HSG D
	5.78	-		ghted Aver		
	5.2			7% Pervio		
	0.50	05	8.73	% Impervi	ous Area	
			0.1			D 1.0
		Length	Slope	Velocity	Capacity	Description
(mi		(feet)	(ft/ft)	(ft/sec)	(cfs)	
10	.7	142	0.1200	0.22		Sheet Flow,
						Grass: Dense n= 0.240 P2= 2.40"
1	.9	277	0.1200	2.42		Shallow Concentrated Flow,
=						Short Grass Pasture Kv= 7.0 fps
8	.9	569	0.1800	1.06		Shallow Concentrated Flow,
_	•		0.0000		40.00	Forest w/Heavy Litter Kv= 2.5 fps
C	.8	222	0.0800	4.74	18.96	Trap/Vee/Rect Channel Flow,
						Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'
			T.4.1			n= 0.069 Riprap, 6-inch

22.3 1,210 Total

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Summary for Subcatchment 63S: WS 13

Runoff = 1.15 cfs @ 12.03 hrs, Volume= 0.067 af, Depth= 2.37"

Area	(ac) (CN Des	cription		
0.	000	98 Unt	reated exis	ting imperv	rious, HSG A
0.	000	98 Unt	reated exis	ting imperv	rious, HSG C
0.	074	98 Unt	reated exis	ting imperv	vious, HSG D
0.			sting imper	vious to be	treated as offset, HSG D
0.	000	30 Exis	sting mead	ow, non-gra	azed, HSG A
					azed, HSG C
					azed, HSG D
			sting Wood		
			sting Wood		
			sting Wood		
			posed Woo		
			posed Woo		
					pe treated, HSG C
					pe treated, HSG D
					rvious, HSG C
					rvious, HSG D
					adow, non-grazed, HSG C
					adow, non-grazed, HSG D
					adow to be treated, HSG C
					adow to be treated, HSG D
			posed mea		
			posed mea		
			posed mea		
			posed mea		t, HSG D
			ghted Aver		
	264	_	11% Pervio		
0.	074	21.8	39% Imper	/ious Area	
Тс	Length	Slope	Velocity	Capacity	Description
(min)	(feet)		(ft/sec)	(cfs)	Becompact
9.6	36	0.1100	0.06		Sheet Flow,
					Woods: Dense underbrush n= 0.800 P2= 2.40"
1.9	254	0.0200	2.22	6.65	Trap/Vee/Rect Channel Flow, ditch
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
					n= 0.069
11.5	290	Total			

Summary for Subcatchment 64S: WS 13A

Runoff = 7.46 cfs @ 12.07 hrs, Volume= 0.486 af, Depth= 2.05"

Area	(ac)	CN	l Desc	cription		
0.	.000	98	3 Untr	eated exis	ting imperv	ious, HSG A
0	.000	98				ious, HSG C
0	.000	98	3 Untr	eated exis	ting imperv	ious, HSG D
0	.000	98	B Exist	ting imper	vious to be	treated as offset, HSG D
0.	.000	30) Exist	ting mead	ow, non-gra	azed, HSG A
0.	.000	71	l Exist	ting mead	ow, non-gra	azed, HSG C
0.	.000	78	B Exist	ting mead	ow, non-gra	azed, HSG D
0.	.000	30) Exist	ting Wood	s, Good, H	SG A
0.	.000	70) Exist	ting Wood	s, Good, H	SG C
0.	.353	77	⁷ Exist	ting Wood	s, Good, H	SG D
0.	.000	70) Prop	osed Woo	ds, Good, l	HSG C
0	.301	77		osed Woo	ds, Good, l	HSG D
	.000	98				e treated, HSG C
	.000	98				e treated, HSG D
	.000	98				rvious, HSG C
	.000	98				rvious, HSG D
	.000	71				dow, non-grazed, HSG C
	.000	78				dow, non-grazed, HSG D
	.000	71				dow to be treated, HSG C
	.695	78			•	dow to be treated, HSG D
	.000	71			dow, ski tra	
	.500	78			dow, ski tra	
	.000	71			dow, ski lift	
_	.000	78			dow, ski lift	t, HSG D
	.849	78		ghted Aver	•	
2	.849		100.	00% Pervi	ous Area	
_						
Тс	Leng		Slope	Velocity	Capacity	Description
(min)	(fee	et)	(ft/ft)	(ft/sec)	(cfs)	
9.0	10	00	0.0900	0.18		Sheet Flow,
						Grass: Dense n= 0.240 P2= 2.40"
1.4	21	11	0.1300	2.52		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
4.7	30)1	0.1800	1.06		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
15.1	61	12	Total			

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Summary for Subcatchment 65S: WS 13B

Runoff 7.26 cfs @ 11.91 hrs, Volume= 0.313 af, Depth= 2.46"

Area	(ac)	CN	Desc	cription		
0	.000	98	Untr	eated exis	ting imperv	rious, HSG A
0	.000					rious, HSG C
0	.000	98	Untr	eated exis	ting imperv	rious, HSG D
0	.000	98	Exis	ting imper	vious to be	treated as offset, HSG D
0	.000	30	Exis	ting meado	ow, non-gra	azed, HSG A
0	.000	71	Exis	ting mead	ow, non-gra	azed, HSG C
0	.000	78	Exis	ting mead	ow, non-gra	azed, HSG D
0	.000	30	Exis	ting Wood	s, Good, H	SG A
0	.086	70	Exis	ting Wood	s, Good, H	SG C
0	.116	77	Exis	ting Wood	s, Good, H	SG D
0	.000	70	Prop	osed Woo	ds, Good,	HSG C
0	.000	77	Prop	osed Woo	ds, Good,	HSG D
0	.379					e treated, HSG C
	.145					e treated, HSG D
	.000					rvious, HSG C
						rvious, HSG D
	.000					ndow, non-grazed, HSG C
	.000					ndow, non-grazed, HSG D
	.383					dow to be treated, HSG C
	.416					adow to be treated, HSG D
	.000				dow, ski tra	
	.000				dow, ski tra	
	.000				dow, ski lift	
	.000				dow, ski lift	t, HSG D
	.525			ghted Aver		
	.001			4% Pervio		
0	.524	;	34.3	6% Imper	/ious Area	
То	Longth	. CI	000	\/alaait\/	Canacity	Description
Tc	Length		ope	Velocity	Capacity (cfs)	Description
(min)	(feet)		t/ft)	(ft/sec)	(CIS)	Observat Electric
0.8	100	0.0	700	1.97		Sheet Flow,
0.4	0.5		700	5 07		Smooth surfaces n= 0.011 P2= 2.40"
0.1	25	0.0	700	5.37		Shallow Concentrated Flow,
0.4	0.0	0.4	200	20.00	00.40	Paved Kv= 20.3 fps
0.1	88	0.16	000	28.80	90.49	Pipe Channel,
						24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'
0.0	440		000	7.04	24.04	n= 0.013 Corrugated PE, smooth interior
0.3	118	0.20	UUU	7.01	21.04	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
	201	T - 1				11- 0.003 Ripiap, 0-ilicii
1.3	331	Tota	aı			

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Summary for Subcatchment 66S: WS 13C

Runoff = 8.92 cfs @ 12.00 hrs, Volume= 0.471 af, Depth= 2.29"

0.000 98 Untreated existing impervious, HSG A 0.000 98 Untreated existing impervious, HSG D 0.000 98 Untreated existing impervious, HSG D 0.000 98 Existing impervious to be treated as offset, HSG D 0.000 30 Existing meadow, non-grazed, HSG A 0.000 71 Existing meadow, non-grazed, HSG C 0.000 78 Existing meadow, non-grazed, HSG D 0.000 70 Existing Woods, Good, HSG A 0.000 70 Existing Woods, Good, HSG C 0.000 77 Existing Woods, Good, HSG C 0.000 70 Proposed Woods, Good, HSG C 0.000 77 Proposed Woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG C 0.000 98 Untreated proposed impervious, HSG C 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed meadow, ski trail, HSG D 0.000 71 Proposed meadow, ski lift, HSG D 0.000 78 Proposed meadow, ski lift, HSG D 0.000 78 Proposed meadow, ski lift, HSG D 0.000 78 Proposed meadow, ski lift, HSG D 0.000 79 Proposed meadow, ski lift, HSG D 0.000 70 Proposed meadow, ski lift, HSG D
0.000 98 Untreated existing impervious, HSG C 0.000 98 Existing impervious to be treated as offset, HSG D 0.000 30 Existing meadow, non-grazed, HSG A 0.000 71 Existing meadow, non-grazed, HSG D 0.000 30 Existing meadow, non-grazed, HSG C 0.000 78 Existing meadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG A 0.000 70 Existing Woods, Good, HSG C 0.000 77 Existing Woods, Good, HSG D 0.000 70 Proposed Woods, Good, HSG D 0.000 70 Proposed Woods, Good, HSG D 0.000 71 Proposed woods, Good, HSG D 0.000 98 Proposed impervious to be treated, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG C 0.000 72 Proposed developed meadow, non-grazed, HSG D 0.000 73 Proposed developed meadow, non-grazed, HSG D 0.000 74 Proposed developed meadow to be treated, HSG D 0.000 75 Proposed developed meadow to be treated, HSG D 0.000 76 Proposed meadow, ski trail, HSG C 0.000 77 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski ifft, HSG C 0.000 78 Proposed meadow, ski lift, HSG D 0.000 79 Proposed meadow, ski lift, HSG D 0.000 79 Proposed meadow, ski lift, HSG D
0.000 98 Existing impervious to be treated as offset, HSG D 0.000 30 Existing meadow, non-grazed, HSG A 0.000 71 Existing meadow, non-grazed, HSG C 0.000 78 Existing meadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG A 0.000 70 Existing Woods, Good, HSG C 0.000 77 Existing Woods, Good, HSG D 0.000 70 Proposed Woods, Good, HSG D 0.000 77 Proposed Woods, Good, HSG D 0.900 98 Proposed impervious to be treated, HSG D 0.000 98 Untreated proposed impervious, HSG C 0.000 98 Untreated proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed meadow, ski trail, HSG C 0.000 72 Proposed meadow, ski trail, HSG C 0.000 73 Proposed meadow, ski lift, HSG D 0.000 74 Proposed meadow, ski lift, HSG D 0.000 75 Proposed meadow, ski lift, HSG D 0.000 76 Proposed meadow, ski lift, HSG D 0.000 77 Proposed meadow, ski lift, HSG D 0.000 78 Proposed meadow, ski lift, HSG D
0.000 30 Existing meadow, non-grazed, HSG A 0.000 71 Existing meadow, non-grazed, HSG C 0.000 78 Existing meadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG A 0.000 70 Existing Woods, Good, HSG C 0.000 77 Existing Woods, Good, HSG D 0.000 70 Proposed Woods, Good, HSG C 0.000 77 Proposed Woods, Good, HSG D 0.900 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow, non-grazed, HSG D 1.569 71 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed meadow, ski trail, HSG C 0.000 72 Proposed meadow, ski trail, HSG C 0.000 73 Proposed meadow, ski Iift, HSG D 0.000 74 Proposed meadow, ski Iift, HSG D 0.000 75 Proposed meadow, ski Iift, HSG D 0.000 76 Proposed meadow, ski Iift, HSG D 0.000 77 Proposed meadow, ski Iift, HSG D 0.000 78 Proposed meadow, ski Iift, HSG D 0.000 78 Proposed meadow, ski Iift, HSG D
0.000 71 Existing meadow, non-grazed, HSG C 0.000 78 Existing meadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG A 0.000 70 Existing Woods, Good, HSG C 0.000 77 Existing Woods, Good, HSG D 0.000 70 Proposed Woods, Good, HSG D 0.000 77 Proposed Woods, Good, HSG D 0.900 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D 0.000 98 Untreated proposed impervious, HSG C 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow, non-grazed, HSG D 1.569 71 Proposed developed meadow to be treated, HSG D 0.000 78 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG D 0.000 78 Proposed meadow, ski lift, HSG D
0.000 78 Existing meadow, non-grazed, HSG D 0.000 30 Existing Woods, Good, HSG A 0.000 70 Existing Woods, Good, HSG C 0.000 77 Existing Woods, Good, HSG D 0.000 70 Proposed Woods, Good, HSG D 0.000 77 Proposed Woods, Good, HSG D 0.900 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious, HSG C 0.000 98 Untreated proposed impervious, HSG C 0.000 98 Untreated proposed impervious, HSG C 0.000 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow, non-grazed, HSG D 1.569 71 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG D 0.000 71 Proposed meadow, ski Iift, HSG C 0.000 78 Proposed meadow, ski lift, HSG D 0.000 78 Proposed meadow, ski lift, HSG D 0.000 78 Proposed meadow, ski lift, HSG D
0.000 30 Existing Woods, Good, HSG A 0.000 70 Existing Woods, Good, HSG C 0.000 77 Existing Woods, Good, HSG D 0.000 70 Proposed Woods, Good, HSG C 0.000 77 Proposed Woods, Good, HSG D 0.900 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow, non-grazed, HSG D 1.569 71 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed meadow, ski trail, HSG C 0.000 72 Proposed meadow, ski trail, HSG C 0.000 73 Proposed meadow, ski trail, HSG C 0.000 74 Proposed meadow, ski trail, HSG D 0.000 75 Proposed meadow, ski lift, HSG D 0.000 76 Proposed meadow, ski lift, HSG D 0.000 77 Proposed meadow, ski lift, HSG D
0.000 70 Existing Woods, Good, HSG C 0.000 77 Existing Woods, Good, HSG D 0.000 70 Proposed Woods, Good, HSG D 0.000 77 Proposed Woods, Good, HSG D 0.900 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious to be treated, HSG D 0.000 98 Untreated proposed impervious, HSG C 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow, non-grazed, HSG D 1.569 71 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed meadow, ski trail, HSG C 0.000 72 Proposed meadow, ski trail, HSG C 0.000 73 Proposed meadow, ski trail, HSG D 0.000 74 Proposed meadow, ski lift, HSG C 0.000 75 Proposed meadow, ski lift, HSG D 0.000 76 Proposed meadow, ski lift, HSG D 0.000 77 Proposed meadow, ski lift, HSG D
0.000 77 Existing Woods, Good, HSG D 0.000 70 Proposed Woods, Good, HSG C 0.000 77 Proposed Woods, Good, HSG D 0.900 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious, HSG D 0.000 98 Untreated proposed impervious, HSG C 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow, non-grazed, HSG D 1.569 71 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski Ifft, HSG D 0.000 71 Proposed meadow, ski Iifft, HSG D 0.000 78 Proposed meadow, ski Iifft, HSG D 0.000 78 Proposed meadow, ski Iifft, HSG D 0.000 78 Proposed meadow, ski Iifft, HSG D
0.000 70 Proposed Woods, Good, HSG C 0.000 77 Proposed Woods, Good, HSG D 0.900 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious, HSG C 0.000 98 Untreated proposed impervious, HSG C 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow, non-grazed, HSG D 1.569 71 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski Ifft, HSG D 0.000 71 Proposed meadow, ski lift, HSG D 0.000 78 Proposed meadow, ski lift, HSG D 0.000 78 Proposed meadow, ski lift, HSG D 0.000 78 Proposed meadow, ski lift, HSG D
0.000 77 Proposed Woods, Good, HSG D 0.900 98 Proposed impervious to be treated, HSG C 0.000 98 Proposed impervious, HSG C 0.000 98 Untreated proposed impervious, HSG C 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow, non-grazed, HSG D 1.569 71 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG D 0.000 71 Proposed meadow, ski lift, HSG C 0.000 78 Proposed meadow, ski lift, HSG D
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0.000 98 Untreated proposed impervious, HSG C 0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG D 0.000 71 Proposed meadow, ski lift, HSG D 0.000 78 Proposed meadow, ski lift, HSG D 2.469 81 Weighted Average 1.569 63.55% Pervious Area
0.000 98 Untreated proposed impervious, HSG D 0.000 71 Proposed developed meadow, non-grazed, HSG C 0.000 78 Proposed developed meadow, non-grazed, HSG D 1.569 71 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG D 0.000 71 Proposed meadow, ski lift, HSG C 0.000 78 Proposed meadow, ski lift, HSG C 0.000 78 Proposed meadow, ski lift, HSG D 2.469 81 Weighted Average 1.569 63.55% Pervious Area
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1.569 71 Proposed developed meadow to be treated, HSG C 0.000 78 Proposed developed meadow to be treated, HSG D 0.000 71 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG D 0.000 71 Proposed meadow, ski lift, HSG C 0.000 78 Proposed meadow, ski lift, HSG D 2.469 81 Weighted Average 1.569 63.55% Pervious Area
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0.000 71 Proposed meadow, ski trail, HSG C 0.000 78 Proposed meadow, ski trail, HSG D 0.000 71 Proposed meadow, ski lift, HSG C 0.000 78 Proposed meadow, ski lift, HSG D 2.469 81 Weighted Average 1.569 63.55% Pervious Area
0.000 78 Proposed meadow, ski trail, HSG D 0.000 71 Proposed meadow, ski lift, HSG C 0.000 78 Proposed meadow, ski lift, HSG D 2.469 81 Weighted Average 1.569 63.55% Pervious Area
0.000 71 Proposed meadow, ski lift, HSG C 0.000 78 Proposed meadow, ski lift, HSG D 2.469 81 Weighted Average 1.569 63.55% Pervious Area
0.00078Proposed meadow, ski lift, HSG D2.46981Weighted Average1.56963.55% Pervious Area
2.469 81 Weighted Average 1.569 63.55% Pervious Area
1.569 63.55% Pervious Area
0.900 36.45% Impervious Area
Tc Length Slope Velocity Capacity Description
(min) (feet) (ft/ft) (ft/sec) (cfs)
7.8 100 0.1300 0.21 Sheet Flow,
Grass: Dense n= 0.240 P2= 2.40"
0.3 42 0.1300 2.52 Shallow Concentrated Flow,
Short Grass Pasture Kv= 7.0 fps
0.4 170 0.1800 6.65 19.96 Trap/Vee/Rect Channel Flow,
Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
n= 0.069 Riprap, 6-inch
0.4 97 0.3100 3.90 Shallow Concentrated Flow,
Short Grass Pasture Kv= 7.0 fps
8.9 409 Total

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Summary for Subcatchment 67S: WS 14

Runoff = 3.15 cfs @ 12.09 hrs, Volume= 0.211 af, Depth= 2.05"

Area	(ac) C	N Desc	cription									
0.	.000	98 Untr	Jntreated existing impervious, HSG A									
0.	.000		Jntreated existing impervious, HSG C									
0.			Jntreated existing impervious, HSG D									
0.			Existing impervious to be treated as offset, HSG D									
0.			Existing meadow, non-grazed, HSG A									
0.			ting mead	ow, non-gra	azed, HSG C							
0.	.000				azed, HSG D							
0.	.000			s, Good, H								
0.			•	s, Good, H								
0.	.657			s, Good, H								
0.	.000	70 Prop	osed Woo	ds, Good,	HSG C							
0.	.170			ds, Good,								
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG C							
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG D							
0.	.000	98 Untr	eated prop	osed impe	rvious, HSG C							
0.	.000	98 Untr	eated prop	osed impe	rvious, HSG D							
0.	.002	71 Prop	osed deve	eloped mea	adow, non-grazed, HSG C							
0.	.000	78 Prop	osed deve	eloped mea	adow, non-grazed, HSG D							
0.	.000	71 Prop	osed deve	eloped mea	adow to be treated, HSG C							
0.	.192	78 Prop	osed deve	eloped mea	adow to be treated, HSG D							
				dow, ski tra								
				dow, ski tra								
				dow, ski lif								
0	.000	78 Prop	osed mea	dow, ski lif	t, HSG D							
		•	ghted Aver	•								
	.197		9% Pervio									
0.	.041	3.31	% Impervi	ous Area								
_					-							
Tc	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)								
7.6	81	0.0900	0.18		Sheet Flow,							
					Grass: Dense n= 0.240 P2= 2.40"							
0.6	28	0.0900	0.75		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
0.4	44	0.5000	1.77		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
3.1	192	0.1700	1.03		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
4.0	209	0.1200	0.87		Shallow Concentrated Flow,							
2.2		0.0400	4.00	40.00	Forest w/Heavy Litter Kv= 2.5 fps							
0.3	70	0.0400	4.33	12.98	Trap/Vee/Rect Channel Flow,							
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
					n= 0.050							

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16.0 624 Total

Summary for Subcatchment 68S: WS 15

Runoff = 3.31 cfs @ 12.06 hrs, Volume= 0.206 af, Depth= 1.89"

Type II 24-hr 25-Year Rainfall=4.20" Printed 9/24/2021

55310.01-West Mountain-PR

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	10.0	100	0.0700	0.17		Sheet Flow,
						Grass: Dense n= 0.240 P2= 2.40"
	0.6	69	0.0700	1.85		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	0.1	44	0.5000	4.95		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	0.2	170	0.1500	12.39	148.70	Trap/Vee/Rect Channel Flow,
						Bot.W=6.50' D=1.50' Z= 1.0 '/' Top.W=9.50'
	4.0	0.0	0.0400	4.00		n= 0.050
	1.3	99	0.2400	1.22		Shallow Concentrated Flow,
	4.0	00	0.0400	4.00		Forest w/Heavy Litter Kv= 2.5 fps
	1.3	99	0.2400	1.22		Shallow Concentrated Flow,
	0.0	40	0.0000	4.70	4444	Forest w/Heavy Litter Kv= 2.5 fps
	0.2	43	0.0900	4.70	14.11	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069
-	40.7	004	T.4.1			11- 0.008
	13.7	624	Total			

Summary for Subcatchment 69S: WS 15A

Runoff = 5.80 cfs @ 11.94 hrs, Volume= 0.249 af, Depth= 1.67"

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Area	(ac)	CN Des	cription									
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A							
0.	000		Jntreated existing impervious, HSG C									
0.	000	98 Untr	Intreated existing impervious, HSG D									
0.	000		Existing impervious to be treated as offset, HSG D									
0.	.000	30 Exis	ting mead	ow, non-gra	azed, HSG A							
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C							
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D							
0.	.000	30 Exis	ting Wood	s, Good, H	SG A							
1.	051	70 Exis	ting Wood	s, Good, H	SG C							
0.	.000	77 Exis	ting Wood	s, Good, H	SG D							
	000			ds, Good,								
0.	000	77 Prop	osed Woo	ds, Good,	HSG D							
	047				e treated, HSG C							
	.000				oe treated, HSG D							
	092				rvious, HSG C							
	000				rvious, HSG D							
	595				adow, non-grazed, HSG C							
	.000				adow, non-grazed, HSG D							
	.000				adow to be treated, HSG C							
	.000				adow to be treated, HSG D							
	000			dow, ski tra								
	.000			dow, ski tra								
	.000			dow, ski lif								
0.	000		osed mea	dow, ski lif	t, HSG D							
1.	785		ghted Aver									
	646	92.2	1% Pervio	us Area								
0.	139	7.79)% Impervi	ous Area								
Tc	Length		Velocity	Capacity	Description							
(min)	(feet)		(ft/sec)	(cfs)								
0.6	72	0.0800	1.94		Sheet Flow,							
					Smooth surfaces n= 0.011 P2= 2.40"							
2.3	155	0.2100	1.15		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
0.2	149	0.1200	11.08	133.00	Trap/Vee/Rect Channel Flow,							
					Bot.W=6.50' D=1.50' Z= 1.0 '/' Top.W=9.50'							
-					n= 0.050 Mountain streams w/large boulders							
3.1	376	Total										

Summary for Subcatchment 70S: WS 15B

Runoff = 7.06 cfs @ 12.07 hrs, Volume= 0.453 af, Depth= 1.67"

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Area	(ac)	CN	Desc	ription									
0.	000	98	Untre	Jntreated existing impervious, HSG A									
0.	000	98		Intreated existing impervious, HSG C									
0.	000	98		Intreated existing impervious, HSG D									
	000	98				treated as offset, HSG D							
	000	30				azed, HSG A							
0.	000	71				azed, HSG C							
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D							
0.	000	30	Exist	ing Woods	s, Good, H	SG Å							
0.	688	70	Exist	ing Woods	s, Good, H	SG C							
0.	000	77			s, Good, H								
0.	075	70			ds, Good, I								
0.	000	77	Prop	osed Woo	ds, Good, I	HSG D							
0.	000	98	Prop	osed impe	rvious to b	e treated, HSG C							
0.	000	98	Prop	osed impe	rvious to b	e treated, HSG D							
0.	321	98	Untre	eated prop	osed impe	rvious, HSG C							
0.	000	98	Untre	eated prop	osed impe	rvious, HSG D							
1.	519	71	Prop	osed deve	loped mea	dow, non-grazed, HSG C							
	000	78	Prop	osed deve	loped mea	dow, non-grazed, HSG D							
	000	71	Prop	osed deve	loped mea	dow to be treated, HSG C							
0.	000	78	Prop	osed deve	loped mea	dow to be treated, HSG D							
	647	71	Prop	osed mea	dow, ski tra	ail, HSG C							
	000	78	Prop	osed mea	dow, ski tra	ail, HSG D							
	000	71			dow, ski lift								
0.	000	78	Prop	osed mea	dow, ski lift	t, HSG D							
3.	250	73	Weig	hted Aver	age								
2.	929		90.12	2% Pervio	us Area								
0.	321		9.889	% Impervi	ous Area								
Tc	Lengt	h	Slope	Velocity	Capacity	Description							
(min)	(feet	t)	(ft/ft)	(ft/sec)	(cfs)								
7.0	10	0 0	.1700	0.24		Sheet Flow,							
						Grass: Dense n= 0.240 P2= 2.40"							
7.0	50	2 0	.2300	1.20		Shallow Concentrated Flow,							
						Forest w/Heavy Litter Kv= 2.5 fps							
0.3	8	7 0	.0700	4.15	12.45	Trap/Vee/Rect Channel Flow,							
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
						n= 0.069 Riprap, 6-inch							
14.3	68	9 T	otal										

Summary for Subcatchment 71S: WS 15C

Runoff = 1.47 cfs @ 12.28 hrs, Volume= 0.151 af, Depth= 2.05"

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 Area	(ac) (ON De	Description										
0.	000	98 Ur	Jntreated existing impervious, HSG A										
0.	000	98 Ur	itreated exis	sting imperv	rious, HSG C								
0.	000	98 Ur	Jntreated existing impervious, HSG D										
0.	000	98 Ex	Existing impervious to be treated as offset, HSG D										
0.	000	30 Ex	isting mead	ow, non-gra	azed, HSG A								
			isting mead	ow, non-gra	azed, HSG C								
			isting mead	ow, non-gra	azed, HSG D								
			isting Wood										
			isting Wood										
			isting Wood										
			oposed Wo										
			oposed Wo	ods, Good,	HSG D								
					pe treated, HSG C								
					pe treated, HSG D								
					ervious, HSG C								
					ervious, HSG D								
					adow, non-grazed, HSG C								
					adow, non-grazed, HSG D								
					adow to be treated, HSG C								
					adow to be treated, HSG D								
			oposed mea										
			oposed mea										
			oposed mea										
			oposed mea		t, HSG D								
			eighted Ave										
	664		.20% Pervio										
0.	219	24	.80% Imper	vious Area									
-		01		0: 1	December 6								
Tc	Length			Capacity	Description								
 (min)	(feet)		 	(cfs)									
31.0	66	0.020	0.04		Sheet Flow,								
0.4		0.440			n= 0.800 P2= 2.40"								
0.1	41	0.440	0 4.64		Shallow Concentrated Flow,								
0.0	400	0.470	0 00		Short Grass Pasture Kv= 7.0 fps								
0.6	108	0.170	0 2.89		Shallow Concentrated Flow,								
0.7	4.44	0.040	0 001		Short Grass Pasture Kv= 7.0 fps								
0.7	141	0.210	0 3.21		Shallow Concentrated Flow,								
 00.1					Short Grass Pasture Kv= 7.0 fps								
32.4	356	Total											

Summary for Subcatchment 72S: WS 15D

Runoff = 1.32 cfs @ 11.98 hrs, Volume= 0.063 af, Depth= 1.67"

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Area	(ac) C	N Des	cription									
					rious, HSG A							
			Untreated existing impervious, HSG C									
0.	.000	98 Untr	Untreated existing impervious, HSG D									
		98 Exis	Existing impervious to be treated as offset, HSG D									
0.	.000	30 Exis	ting meado	ow, non-gra	azed, HSG A							
		71 Exis	ting meado	ow, non-gra	azed, HSG C							
0.	000	78 Exis	ting meado	ow, non-gra	azed, HSG D							
0.	.000	30 Exis	ting Wood	s, Good, H	SG A							
0.	000	70 Exis	ting Wood	s, Good, H	SG C							
0.	000	77 Exis	ting Wood	s, Good, H	SG D							
0.	038	70 Prop	osed Woo	ds, Good,	HSG C							
0.	000	77 Prop	osed Woo	ds, Good,	HSG D							
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG C							
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG D							
0.	042	98 Untr	eated prop	osed impe	rvious, HSG C							
0.	.000	98 Untr	eated prop	osed impe	rvious, HSG D							
0.	372	71 Prop	osed deve	eloped mea	adow, non-grazed, HSG C							
0.	002	78 Prop	osed deve	eloped mea	adow, non-grazed, HSG D							
0.	000	71 Prop	osed deve	eloped mea	adow to be treated, HSG C							
0.	000				adow to be treated, HSG D							
0.	000	71 Prop	osed mea	dow, ski tra	ail, HSG C							
0.	000	78 Prop	osed mea	dow, ski tra	ail, HSG D							
0.	000	71 Prop	osed mea	dow, ski lift	t, HSG C							
0.	000	78 Prop	osed mea	dow, ski lift	t, HSG D							
0.	454	73 Wei	ghted Aver	age								
0.	412	90.7	5% Pervio	us Area								
0.	042	9.25	% Impervi	ous Area								
			•									
Tc	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	•							
6.0	43	0.5100	0.12	, ,	Sheet Flow,							
					n= 0.800 P2= 2.40"							
0.2	68	0.5100	5.00		Shallow Concentrated Flow,							
	30				Short Grass Pasture Kv= 7.0 fps							
6.2	111	Total			<u>, </u>							

Summary for Subcatchment 73S: WS 15E

Runoff = 3.32 cfs @ 11.97 hrs, Volume= 0.163 af, Depth= 2.46"

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Area	(ac) (N Des	cription									
0.	.000	98 Untr	Intreated existing impervious, HSG A									
0.	.000		Intreated existing impervious, HSG C									
0.	.000	98 Untr	Intreated existing impervious, HSG D									
0.	.000	98 Exis	existing impervious to be treated as offset, HSG D									
		30 Exis	ting mead	ow, non-gra	azed, HSG A							
					azed, HSG C							
					azed, HSG D							
				s, Good, H								
			0	s, Good, H								
			•	s, Good, H								
				ods, Good,								
				ods, Good,								
			•		treated, HSC D							
			•		e treated, HSG D rvious, HSG C							
					rvious, HSG D							
					idow, non-grazed, HSG C							
				•	idow, non-grazed, HSG D							
					idow to be treated, HSG C							
					dow to be treated, HSG D							
0.	.000			dow, ski tra								
		78 Prop	osed mea	dow, ski tra	ail, HSG D							
				dow, ski lift								
0.	.000	78 Prop	osed mea	dow, ski lift	t, HSG D							
			ghted Aver									
	.566		8% Pervio									
0.	.228	28.7	2% Imper	vious Area								
Тс	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Boompaon							
4.0	21	0.3300	0.09	(3.5)	Sheet Flow,							
4.0	۷.	0.0000	0.00		n= 0.800 P2= 2.40"							
1.0	286	0.0900	4.70	14.11	Trap/Vee/Rect Channel Flow, roadway ditch							
		0.000	•		Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
					n= 0.069 Riprap, 6-inch							
0.8	162	0.0500	3.51	10.52	Trap/Vee/Rect Channel Flow, roadway ditch							
					Bot.W=2.00' D=1.00' Z= 1.0 '/ Top.W=4.00'							
					n= 0.069 Riprap, 6-inch							
0.3	68	0.0600	3.84	11.52	Trap/Vee/Rect Channel Flow, roadway ditch							
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
					n= 0.069 Riprap, 6-inch							
6.1	537	Total										

Summary for Subcatchment 74S: WS 15F

Runoff = 10.90 cfs @ 12.01 hrs, Volume= 0.582 af, Depth= 2.29"

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Area	(ac)	CN Des	cription									
0.	000	98 Unt	Jntreated existing impervious, HSG A									
0.	000		Jntreated existing impervious, HSG C									
0.	000	98 Unt	Intreated existing impervious, HSG D									
0.	000				treated as offset, HSG D							
0.	.000	30 Exis	sting mead	ow, non-gra	azed, HSG A							
0.	.000	71 Exis	sting mead	ow, non-gra	azed, HSG C							
0.	.000	78 Exis	sting mead	ow, non-gra	azed, HSG D							
0.	.000	30 Exis	sting Wood	s, Good, H	SG A							
0.	.000	70 Exis	sting Wood	s, Good, H	SG C							
0.	227	77 Exis	sting Wood	s, Good, H	SG D							
	000			ds, Good,								
	418	77 Pro	posed Woo	ds, Good,	HSG D							
	000				e treated, HSG C							
	.000				e treated, HSG D							
	.001				rvious, HSG C							
	508				rvious, HSG D							
	014				idow, non-grazed, HSG C							
	020				idow, non-grazed, HSG D							
	000				dow to be treated, HSG C							
	000				dow to be treated, HSG D							
	011			dow, ski tra								
	852			dow, ski tra								
	000			dow, ski lift								
	000			dow, ski lift	t, HSG D							
	.051		ghted Aver	•								
	542		32% Pervio									
0.	509	16.6	68% Imper	vious Area								
_		٥.										
Tc	Length		Velocity	Capacity	Description							
<u>(min)</u>	(feet)		(ft/sec)	(cfs)								
7.6	100	0.1400	0.22		Sheet Flow,							
					Grass: Dense n= 0.240 P2= 2.40"							
0.5	83	0.1400	2.62		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
1.1	401	0.1400	5.87	17.60	Trap/Vee/Rect Channel Flow,							
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
					n= 0.069 Riprap, 6-inch							
9.2	584	Total										

Summary for Subcatchment 75S: WS 15G

Runoff = 9.63 cfs @ 12.05 hrs, Volume= 0.574 af, Depth= 2.05"

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Area	(ac)	CN	Des	cription									
0.	000	98	Untr	Intreated existing impervious, HSG A									
0.	000			Intreated existing impervious, HSG C									
0.	000			Intreated existing impervious, HSG D									
0.	000					treated as offset, HSG D							
	000					azed, HSG A							
0.	000					azed, HSG C							
0.	000					azed, HSG D							
0.	000				s, Good, H								
0.	422				s, Good, HS								
0.	000				s, Good, HS								
0.	485				ds, Good, I								
0.	098				ds, Good, I								
0.	000	98	Prop	osed impe	ervious to b	e treated, HSG C							
0.	000	98	Prop	osed impe	ervious to b	e treated, HSG D							
0.	784	98	Untr	eated prop	osed impe	rvious, HSG C							
0.	042	98	Untr	eated prop	osed impe	rvious, HSG D							
1.	239	71	Prop	osed deve	loped mea	dow, non-grazed, HSG C							
0.	296	78	Prop	osed deve	loped mea	dow, non-grazed, HSG D							
0.	000	71	Prop	osed deve	loped mea	dow to be treated, HSG C							
0.	000	78	Prop	osed deve	loped mea	dow to be treated, HSG D							
0.	000	71	Prop	osed mea	dow, ski tra	ail, HSG C							
	000	78	Prop	osed mea	dow, ski tra	ail, HSG D							
0.	000	71	Prop	osed mea	dow, ski lift	; HSG C							
0.	000	78	Prop	osed mea	dow, ski lift	;, HSG D							
3.	366	78	Weig	hted Aver	age								
2.	540	•	75.4	6% Pervio	us Area								
0.	826		24.5	4% Imperv	ious Area								
				-									
Tc	Length	n Slo	оре	Velocity	Capacity	Description							
(min)	(feet) (f	t/ft)	(ft/sec)	(cfs)	·							
10.7	54	1 0.19	900	0.08		Sheet Flow,							
						Woods: Dense underbrush n= 0.800 P2= 2.40"							
0.3	21	0.19	900	1.09		Shallow Concentrated Flow,							
						Forest w/Heavy Litter Kv= 2.5 fps							
1.5	544	1 0.14	400	5.87	17.60	Trap/Vee/Rect Channel Flow,							
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
						n= 0.069 Riprap, 6-inch							
12.5	619) Tota	al			<u>. </u>							

Summary for Subcatchment 76S: WS 15H

Runoff = 23.89 cfs @ 12.42 hrs, Volume= 3.035 af, Depth= 1.67"

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۸	()	NI D	4:									
Area			cription		·							
			Untreated existing impervious, HSG A									
			Untreated existing impervious, HSG C									
			Untreated existing impervious, HSG D									
					treated as offset, HSG D							
					azed, HSG A							
					azed, HSG C							
					azed, HSG D							
				s, Good, H								
				s, Good, H								
				s, Good, H								
				ds, Good, l ds, Good, l								
					e treated, HSG C							
					e treated, HSG D							
					rvious, HSG C							
					rvious, HSG D							
					dow, non-grazed, HSG C							
					dow, non-grazed, HSG D							
					dow to be treated, HSG C							
					dow to be treated, HSG D							
				dow, ski tra								
				dow, ski tra								
				dow, ski lift								
0	.000			dow, ski lift								
21	.776		ghted Aver									
	.948		0% Pervio									
0	.828	3.80	% Impervi	ous Area								
			·									
Tc	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)								
7.8	100	0.1300	0.21		Sheet Flow,							
					Grass: Dense n= 0.240 P2= 2.40"							
1.6	358	0.2800	3.70		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
17.3	1,352	0.2700	1.30		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
4.1	765	0.2000	3.13		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
11.8	793	0.2000	1.12		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
42.6	3,368	Total										

Summary for Subcatchment 77S: WS 16

Runoff = 2.60 cfs @ 12.09 hrs, Volume= 0.178 af, Depth= 1.82"

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Area	(ac) C	N Des	cription									
0.	000	98 Untr	eated exis	ting imperv	ious, HSG A							
0.	000	98 Untr	eated exis	ting imperv	ious, HSG C							
			Intreated existing impervious, HSG D									
			Existing impervious to be treated as offset, HSG D									
			Existing meadow, non-grazed, HSG A									
					azed, HSG C							
					azed, HSG D							
				s, Good, H								
			•	s, Good, H								
				s, Good, H ds, Good, I								
				ds, Good, l								
					e treated, HSG C							
			•		e treated, HSG D							
					rvious, HSG C							
					rvious, HSG D							
				•	dow, non-grazed, HSG C							
0.	041	78 Prop	osed deve	loped mea	dow, non-grazed, HSG D							
		71 Prop	osed deve	eloped mea	dow to be treated, HSG C							
					dow to be treated, HSG D							
				dow, ski tra								
				dow, ski tra								
				dow, ski lift								
				dow, ski lift	I, HSG D							
			ghted Aver									
	136 037		5% Pervio									
0.	037	3.10	% Impervi	ous Area								
Tc	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)								
9.0	100	0.0900	0.18		Sheet Flow,							
					Grass: Dense n= 0.240 P2= 2.40"							
0.2	30	0.0900	2.10		Shallow Concentrated Flow,							
	0.5	0.4000	4.50		Short Grass Pasture Kv= 7.0 fps							
0.3	25	0.4000	1.58		Shallow Concentrated Flow,							
4.6	440	0.0500	4.05		Forest w/Heavy Litter Kv= 2.5 fps							
1.6	119	0.2500	1.25		Shallow Concentrated Flow,							
2.6	139	0.1300	0.90		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,							
2.0	139	0.1300	0.90		Forest w/Heavy Litter Kv= 2.5 fps							
2.6	161	0.1700	1.03		Shallow Concentrated Flow,							
2.0	101	5.1700	1.00		Forest w/Heavy Litter Kv= 2.5 fps							
0.1	70	0.0300	8.52	25.56	Trap/Vee/Rect Channel Flow,							
	. •				Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'							
					n= 0.022							
16.4	644	Total										

2.9

404 Total

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Summary for Subcatchment 78S: WS 17

Runoff = 5.11 cfs @ 11.94 hrs, Volume= 0.219 af, Depth= 1.97"

Area	(ac)	CN Des	cription							
0	.000	98 Untr	eated exis	ting imperv	ious, HSG A					
0	.000	98 Untr	eated exis	ting imperv	ious, HSG C					
0	.047	98 Untr	eated exis	ting imperv	ious, HSG D					
0	0.000 98 Existing impervious to be treated as offset, HSG D									
0.	0.000 30 Existing meadow, non-grazed, HSG A									
0.	.000	71 Exis	ting mead	ow, non-gra	azed, HSG C					
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
0.	.000	30 Exis	ting Wood	s, Good, H	SG A					
0.	.011	70 Exis	ting Wood	s, Good, H	SG C					
0.	.793	77 Exis	ting Wood	s, Good, H	SG D					
0.	.000	70 Prop	osed Woo	ds, Good, I	HSG C					
0.	.000	77 Prop	osed Woo	ds, Good, I	HSG D					
0.	.000	98 Prop	osed impe	ervious to b	e treated, HSG C					
0.	.000		osed impe	ervious to b	e treated, HSG D					
	.047				rvious, HSG C					
	.000				rvious, HSG D					
	.275				dow, non-grazed, HSG C					
	.044				dow, non-grazed, HSG D					
	.000				dow to be treated, HSG C					
	.000				dow to be treated, HSG D					
	.119			dow, ski tra						
	.000			dow, ski tra						
	.000			dow, ski lift						
	.000			dow, ski lift	, HSG D					
	.336		ghted Aver							
	.242		6% Pervio							
0.	.094	7.04	% Impervi	ous Area						
_		01		.						
Tc	Length		Velocity	Capacity	Description					
<u>(min)</u>	(feet)		(ft/sec)	(cfs)						
0.2	23	0.1700	2.09		Sheet Flow,					
0.4	50	0.0000	4.00		n= 0.011 P2= 2.40"					
0.4	53	0.0800	1.98		Shallow Concentrated Flow,					
0.4	400	0.4000	4.00		Short Grass Pasture Kv= 7.0 fps					
2.1	126	0.1600	1.00		Shallow Concentrated Flow,					
0.0	200	0.4400	4E 00	75.00	Forest w/Heavy Litter Kv= 2.5 fps					
0.2	202	0.1400	15.06	75.28	Trap/Vee/Rect Channel Flow,					
					Bot.W=4.00' D=1.00' Z= 1.0 '/' Top.W=6.00' n= 0.030					
	40.4	T . 4 . 1			11- 0.000					

Summary for Subcatchment 79S: WS 17A

Runoff = 9.78 cfs @ 12.02 hrs, Volume= 0.548 af, Depth= 2.05"

Area	(ac)	CN	Desc	cription								
0.	000	98	Untre	Intreated existing impervious, HSG A								
0.	000	98	Untre	Intreated existing impervious, HSG C								
0.	000	98	Untre	Intreated existing impervious, HSG D								
0.	000	98	Exist	xisting impervious to be treated as offset, HSG D								
0.	000	30	Exist	ting meado	ow, non-gra	azed, HSG A						
0.	000	71	Exist	ting meado	ow, non-gra	azed, HSG C						
0.	000	78	Exist	ting meado	ow, non-gra	azed, HSG D						
	000	30			s, Good, H							
	000	70			s, Good, H							
	035	77			s, Good, H							
	000	70			ds, Good,							
	000	77			ds, Good,							
	780	98				e treated, HSG C						
	000	98				e treated, HSG D						
	039	98				rvious, HSG C						
	000	98				rvious, HSG D						
	000	71				idow, non-grazed, HSG C						
	000	78				dow, non-grazed, HSG D						
	761	71				dow to be treated, HSG C						
	248	78				dow to be treated, HSG D						
	349	71			dow, ski tra							
	000	78			dow, ski tra							
	000	71			dow, ski lift							
	000	78			dow, ski lift	t, HSG D						
	212	78		hted Aver								
	393		_	0% Pervio								
0.	819		25.5	0% Imper\	ious Area							
Tc	Lengtl	h S	lope	Velocity	Capacity	Description						
(min)	(feet		ft/ft)	(ft/sec)	(cfs)	Description						
6.3	73		200	0.19	(010)	Sheet Flow,						
0.5	/ \	J 0.	200	0.19		Grass: Dense n= 0.240 P2= 2.40"						
1.8	94	4 0 1	1200	0.87		Shallow Concentrated Flow,						
1.0	9-	. 0.	200	0.07		Forest w/Heavy Litter Kv= 2.5 fps						
2.4	268	a nr	700	1.85		Shallow Concentrated Flow,						
۷.٦	200	0.0	,, 00	1.00		Short Grass Pasture Kv= 7.0 fps						
10.5	43	5 To	tal									

Summary for Subcatchment 80S: WS 17B

Runoff = 9.91 cfs @ 11.95 hrs, Volume= 0.448 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 25-Year Rainfall=4.20"

Area	(ac)	CN	Desc	cription							
	.000	98			ting imperv	ious, HSG A					
	.000	98									
	.000	98		Intreated existing impervious, HSG C Intreated existing impervious, HSG D							
	.000	98		Existing impervious to be treated as offset, HSG D							
	.000	30				azed, HSG A					
	.000	71				azed, HSG C					
	.000	78				azed, HSG D					
	.000	30			s, Good, H						
	.001	70			s, Good, H						
0	.000	77			s, Good, H						
0	.000	70	Prop	osed Woo	ds, Good, I	HSG C					
0	.000	77	Prop	osed Woo	ds, Good, I	HSG D					
	.843	98	Prop	osed impe	ervious to b	e treated, HSG C					
	.055	98				e treated, HSG D					
	.000	98				rvious, HSG C					
	.000	98				rvious, HSG D					
	.000	71				dow, non-grazed, HSG C					
	.000	78				dow, non-grazed, HSG D					
	.441	71				dow to be treated, HSG C					
	.006	78			•	dow to be treated, HSG D					
	.000	71			dow, ski tra						
	.000	78			dow, ski tra						
	.000	71			dow, ski lift						
	.000	78			dow, ski lift	I, HSG D					
	.346	81		hted Aver	•						
	.448		-	2% Pervio							
Ü	.898		38.2	8% imperv	ious Area						
Тс	Lengt	h C	lope	Velocity	Capacity	Description					
(min)	(feet		ft/ft)	(ft/sec)	(cfs)	Description					
0.7	10		200	2.44	(013)	Sheet Flow,					
0.7	10	U U. I	200	Z. 44		Smooth surfaces n= 0.011 P2= 2.40"					
0.1	4	6 N 1	200	7.03		Shallow Concentrated Flow,					
0.1		O. 1	_00	7.00		Paved Kv= 20.3 fps					
3.5	1,12	7 01	200	5.43	16.30	Trap/Vee/Rect Channel Flow,					
0.0	.,			00	. 5.50	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
						n= 0.069 Riprap, 6-inch					
4.2	4.07	2 Ta	4 - 1			1 1/					

4.3 1,273 Total

Summary for Subcatchment 81S: WS 17C

Runoff = 3.07 cfs @ 12.09 hrs, Volume= 0.206 af, Depth= 1.89"

Area	(ac)	CN	Desc	cription								
0.	.000	98	Untr	Intreated existing impervious, HSG A								
0.	.000	98	Untr	Intreated existing impervious, HSG C								
0.	.000	98	Untr	ntreated existing impervious, HSG D								
0.	.000	98	Exist	Existing impervious to be treated as offset, HSG D								
0.	.000	30	Exist	ting meado	ow, non-gra	azed, HSG A						
0.	.000	71	Exist	ting meado	ow, non-gra	azed, HSG C						
0.	.000	78	Exist	ting meado	ow, non-gra	azed, HSG D						
	.000	30			s, Good, H							
	.298	70			s, Good, H							
	.000	77			s, Good, H							
	.000	70			ds, Good,							
	.000	77			ds, Good,							
	.000	98				e treated, HSG C						
	.000	98				e treated, HSG D						
	.264	98				rvious, HSG C						
	.000	98				rvious, HSG D						
	746	71				adow, non-grazed, HSG C						
	.000	78				adow, non-grazed, HSG D						
	.000	71				adow to be treated, HSG C						
	.000	78				adow to be treated, HSG D						
	.000	71			dow, ski tra	·						
	.000	78 74			dow, ski tra							
	.000	71			dow, ski lift							
	.000	78			dow, ski lift	I, H5G D						
	.308	76		hted Aver								
	.044			2% Pervio								
0.	.264		20.1	8% Imper	llous Area							
Tc	Lengt	h :	Slope	Velocity	Capacity	Description						
(min)	(feet		(ft/ft)	(ft/sec)	(cfs)	2						
10.8	5		.2000	0.09		Sheet Flow,						
						Woods: Dense underbrush n= 0.800 P2= 2.40"						
4.7	31	6 0	.2000	1.12		Shallow Concentrated Flow,						
						Forest w/Heavy Litter Kv= 2.5 fps						
0.5	7	6 0	.1300	2.52		Shallow Concentrated Flow,						
						Short Grass Pasture Kv= 7.0 fps						
16.0	44	8 T	otal									

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Summary for Subcatchment 82S: WS 17D

Runoff = 3.50 cfs @ 12.07 hrs, Volume= 0.227 af, Depth= 2.05"

Area	(ac)	CN	Desc	cription								
0.	000	98	Untre	eated exis	ting imperv	rious, HSG A						
0.	000	98	Untre	Intreated existing impervious, HSG C								
0.	000	98	Untre	Intreated existing impervious, HSG D								
0.	000	98	Exist	xisting impervious to be treated as offset, HSG D								
0.	000	30	Exist	ting meado	w, non-gra	azed, HSG A						
0.	000	71	Exist	ing meado	ow, non-gra	azed, HSG C						
0.	000	78		ting meado	ow, non-gra	azed, HSG D						
	000	30			s, Good, H							
	000	70			s, Good, H							
	000	77			s, Good, H							
	000	70			ds, Good,							
	000	77			ds, Good,							
	000	98				e treated, HSG C						
	000	98				e treated, HSG D						
	346	98				rvious, HSG C						
	003	98				rvious, HSG D						
	0.974 71 Proposed developed meadow, non-grazed, HSG C											
	005	78				dow, non-grazed, HSG D						
	000	71				adow to be treated, HSG C						
	000	78				adow to be treated, HSG D						
	000	71			dow, ski tra							
	000	78			dow, ski tra							
	000	71			dow, ski lift							
	000	78			dow, ski lift	t, HSG D						
	328	78		hted Aver								
	979		_	2% Pervio								
0.	349		26.2	8% Imperv	ious Area							
т.	1	. I.	Clana	\/alaaitu	Canacity	Description						
Tc	Leng		Slope	Velocity	Capacity	Description						
(min)	(fee		(ft/ft)	(ft/sec)	(cfs)	OL (E)						
10.9	4	.9 (0.1500	0.07		Sheet Flow,						
4.0			. 4500	0.07		Woods: Dense underbrush n= 0.800 P2= 2.40"						
1.6	9	5 (0.1500	0.97		Shallow Concentrated Flow,						
0.4	4 -	·	1000	4.00		Forest w/Heavy Litter Kv= 2.5 fps						
2.4	15	o (0.1800	1.06		Shallow Concentrated Flow,						
			- 			Forest w/Heavy Litter Kv= 2.5 fps						
14.9	29	19	Γotal									

Summary for Subcatchment 83S: WS 17E

Runoff = 15.22 cfs @ 11.97 hrs, Volume= 0.759 af, Depth= 2.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 25-Year Rainfall=4.20"

	Area	(ac) (CN De	escription							
	0.	000	98 Ur	treated exis	ting imperv	rious, HSG A					
0.000 98 Untreated existing impervious, HSG C											
0.000 98 Untreated existing impervious, HSG D 0.000 98 Existing impervious to be treated as offset, HSG D											
0.000 30 Existing meadow, non-grazed, HSG A											
			71 Existing meadow, non-grazed, HSG C								
						azed, HSG D					
				isting Wood							
				isting Wood							
	0.	000	77 Ex	isting Wood	ls, Good, H	SG D					
				oposed Woo	ods, Good,	HSG C					
				oposed Woo							
						e treated, HSG C					
						e treated, HSG D					
						rvious, HSG C					
						rvious, HSG D					
						ndow, non-grazed, HSG C					
						ndow, non-grazed, HSG D					
						dow to be treated, HSG C					
						dow to be treated, HSG D					
				oposed mea							
				oposed mea							
				oposed mea							
_			78 Pr	oposed mea	adow, ski lift	t, HSG D					
				eighted Ave							
		199	63	.65% Pervio	ous Area						
	1.	256	36	.35% Imper	vious Area						
	Tc	Length			Capacity	Description					
_	(min)	(feet)	(ft/f	(ft/sec)	(cfs)						
	1.2	100	0.030	0 1.40		Sheet Flow,					
						Smooth surfaces n= 0.011 P2= 2.40"					
	5.1	1,621	0.100	0 5.30	21.20	Trap/Vee/Rect Channel Flow,					
						Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00'					
_						n= 0.069 Riprap, 6-inch					
	6.3	1 721	Total								

6.3 1,721 Total

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Summary for Subcatchment 84S: WS 17F

Runoff = 11.38 cfs @ 12.17 hrs, Volume= 0.941 af, Depth= 2.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Type II 24-hr 25-Year Rainfall=4.20"

Area	(ac) C	N Des	cription						
0.	000	98 Unt	reated exis	ting imperv	rious, HSG A				
0.	0.000 98 Untreated existing impervious, HSG C								
0.	0.000 98 Untreated existing impervious, HSG D								
0.000 98 Existing impervious to be treated as offset, HSG D									
0.	0.000 30 Existing meadow, non-grazed, HSG A								
0.			sting meado	ow, non-gra	azed, HSG C				
					azed, HSG D				
			sting Woods						
			sting Woods						
			sting Woods						
			posed Woo						
			posed Woo						
					e treated, HSG C				
					e treated, HSG D				
					rvious, HSG C				
	1.217 98 Untreated proposed impervious, HSG D								
					dow, non-grazed, HSG C				
					dow, non-grazed, HSG D				
					dow to be treated, HSG C				
					dow to be treated, HSG D				
			posed mea						
			posed mea						
			posed mea						
-			posed mea		I, HSG D				
			ghted Aver						
	370		17% Pervio						
1.	217	26.5	53% Imper	lious Area					
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Boompton				
10.9	44	0.1200		, ,	Sheet Flow,				
					Woods: Dense underbrush n= 0.800 P2= 2.40"				
12.6	683	0.1300	0.90		Shallow Concentrated Flow,				
					Forest w/Heavy Litter Kv= 2.5 fps				
23.5	727	Total							

Summary for Subcatchment 85S: WS 18

Runoff = 0.74 cfs @ 11.95 hrs, Volume= 0.033 af, Depth= 2.13"

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Area	(ac) (CN Des	cription								
0.	000	98 Unti	reated exis	ting imperv	rious, HSG A						
0.	0.000 98 Untreated existing impervious, HSG C										
0.	021	98 Unti	Jntreated existing impervious, HSG D								
0.	000	98 Exis	Existing impervious to be treated as offset, HSG D								
0.	000	30 Exis	sting mead	ow, non-gra	azed, HSG A						
0.	000	71 Exis	sting mead	ow, non-gra	azed, HSG C						
0.	000	78 Exis	sting mead	ow, non-gra	azed, HSG D						
0.	000	30 Exis	sting Wood	s, Good, H	SG A						
0.	000	70 Exis	sting Wood	s, Good, H	SG C						
0.	165	77 Exis	sting Wood	s, Good, H	SG D						
0.	000	70 Pro	posed Woo	ds, Good,	HSG C						
0.	000	77 Pro	posed Woo	ds, Good,	HSG D						
0.	000	98 Prop	posed impe	ervious to b	e treated, HSG C						
0.			posed impe	ervious to b	e treated, HSG D						
0.	000	98 Unti	reated prop	osed impe	rvious, HSG C						
					rvious, HSG D						
					idow, non-grazed, HSG C						
					idow, non-grazed, HSG D						
					dow to be treated, HSG C						
				•	dow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra	·						
				dow, ski lift							
				dow, ski lift	t, HSG D						
			ghted Aver								
	165		71% Pervio								
0.	021	11.2	29% Imper	vious Area							
Tc	Length		Velocity	Capacity	Description						
(min)	(feet)		(ft/sec)	(cfs)							
4.1	65	0.2700	0.26		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
0.1	92	0.1100	16.31	48.94	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.022						
4.2	157	Total									

Summary for Subcatchment 86S: WS 19

Runoff = 1.77 cfs @ 12.04 hrs, Volume= 0.102 af, Depth= 1.89"

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Area	(ac)	CN	Desc	cription								
0.	000	98	Untre	eated exis	ting imperv	ious, HSG A						
0.	000	98	Untre	eated exis	ting imperv	ious, HSG C						
0.	800	98	Untre	eated exis	ting imperv	ious, HSG D						
0.	000	98	Existing impervious to be treated as offset, HSG D									
0.	000	30	Exist	xisting meadow, non-grazed, HSG A								
0.	000	71	Exist	ing meado	ow, non-gra	azed, HSG C						
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D						
0.	000	30	Exist	ing Woods	s, Good, H	SG A						
0.	060	70	Exist	ing Woods	s, Good, H	SG C						
0.	313	77	Exist	ing Woods	s, Good, H	SG D						
0.	000	70	Prop	osed Woo	ds, Good,	HSG C						
0.	000	77	Prop	osed Woo	ds, Good,	HSG D						
0.	000	98	Prop	osed impe	ervious to b	e treated, HSG C						
0.	000	98	Prop	osed impe	ervious to b	e treated, HSG D						
0.	016	98	Untre	eated prop	osed impe	rvious, HSG C						
0.	000	98	Untre	eated prop	osed impe	rvious, HSG D						
0.	116	71	Prop	osed deve	loped mea	dow, non-grazed, HSG C						
	135	78				dow, non-grazed, HSG D						
	000	71				dow to be treated, HSG C						
	000	78				dow to be treated, HSG D						
	000	71			dow, ski tra							
	000	78			dow, ski tra							
	000	71			dow, ski lift							
0.	000	78	Prop	<u>osed mea</u>	dow, ski lift	t, HSG D						
0.	648	76	Weig	hted Aver	age							
0.	624		96.3	0% Pervio	us Area							
0.	024		3.70	% Impervi	ous Area							
Tc	Length		lope	Velocity	Capacity	Description						
(min)	(feet) ((ft/ft)	(ft/sec)	(cfs)							
7.2	100	0.1	1600	0.23		Sheet Flow,						
						Grass: Dense n= 0.240 P2= 2.40"						
4.2	253	3 0.1	1600	1.00		Shallow Concentrated Flow,						
						Forest w/Heavy Litter Kv= 2.5 fps						
0.1	102	2 0.0	0600	12.05	36.14	Trap/Vee/Rect Channel Flow,						
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
						n= 0.022						
11.5	455	5 То	tal									

Summary for Subcatchment 87S: WS 20

Runoff = 4.79 cfs @ 11.97 hrs, Volume= 0.232 af, Depth= 2.05"

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Area	(ac) C	N Des	cription								
0.	.000	98 Untr	eated exis	ting imperv	rious, HSG A						
0	.000	98 Untr	eated exis	ting imperv	rious, HSG C						
0.	.037	98 Untr	eated exis	ting imperv	rious, HSG D						
0	.000				treated as offset, HSG D						
0.	0.000 30 Existing meadow, non-grazed, HSG A										
0.000 71 Existing meadow, non-grazed, HSG C											
0.	0.000 78 Existing meadow, non-grazed, HSG D										
0.	.000	30 Exis	ting Wood	s, Good, H	SG A						
0.	.007	70 Exis	ting Wood	s, Good, H	SG C						
0.	.881	77 Exis	ting Wood	s, Good, H	SG D						
0.	.000	70 Prop	osed Woo	ds, Good,	HSG C						
0	.000	77 Prop	osed Woo	ds, Good,	HSG D						
0	.000	98 Prop	osed impe	ervious to b	pe treated, HSG C						
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG D						
					ervious, HSG C						
					ervious, HSG D						
					adow, non-grazed, HSG C						
				•	adow, non-grazed, HSG D						
					adow to be treated, HSG C						
					adow to be treated, HSG D						
				dow, ski tra	•						
				dow, ski tra							
				dow, ski lif							
				dow, ski lif	t, HSG D						
			ghted Aver	•							
	.281		3% Pervio								
0.	.077	5.67	% Impervi	ous Area							
То	Langth	Clana	\/alaait\/	Canacity	Description						
	Length	Slope	Velocity	Capacity	Description						
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)	Object Floor						
0.4	34	0.0600	1.49		Sheet Flow,						
0.4	40	0.0000	4.07		Smooth surfaces n= 0.011 P2= 2.40"						
0.1	18	0.3900	4.37		Shallow Concentrated Flow,						
0.0	400	0.4000	4.00		Short Grass Pasture Kv= 7.0 fps						
2.8	166	0.1600	1.00		Shallow Concentrated Flow,						
0.0	4 4 4	0.4400	0.04		Forest w/Heavy Litter Kv= 2.5 fps						
2.6	144	0.1400	0.94		Shallow Concentrated Flow,						
0.4	0.4	0.0000	0.50	05.50	Forest w/Heavy Litter Kv= 2.5 fps						
0.1	64	0.0300	8.52	25.56	Trap/Vee/Rect Channel Flow,						
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
	400	T-4-1			n= 0.022						
6.0	426	Total									

Summary for Subcatchment 88S: WS 20A

Runoff = 3.91 cfs @ 11.94 hrs, Volume= 0.169 af, Depth= 1.74"

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Area	(ac) C	CN Des	cription									
		98 Untr	eated exis	ting imperv	ious, HSG A							
		98 Untr	eated exis	ting imperv	ious, HSG C							
		98 Untreated existing impervious, HSG D										
		98 Existing impervious to be treated as offset, HSG D										
			Existing meadow, non-grazed, HSG A									
					azed, HSG C							
					azed, HSG D							
				s, Good, H								
0.	.287			s, Good, H								
				s, Good, H								
0.	.000			ds, Good,								
				ds, Good,								
0	.000	98 Prop	osed impe	ervious to b	e treated, HSG C							
0.	.000	98 Prop	osed impe	ervious to b	e treated, HSG D							
0.	.141	98 Untr	eated prop	osed impe	rvious, HSG C							
0.	.006				rvious, HSG D							
0.	.600	71 Prop	osed deve	eloped mea	dow, non-grazed, HSG C							
					dow, non-grazed, HSG D							
					dow to be treated, HSG C							
					dow to be treated, HSG D							
				dow, ski tra								
				dow, ski tra								
				dow, ski lift								
				dow, ski lift	; HSG D							
			ghted Aver									
	.013		3% Pervio									
0.	.147	12.6	7% Imper	vious Area								
Tc	Length		Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)								
0.7	100	0.1000	2.27		Sheet Flow,							
					Smooth surfaces n= 0.011 P2= 2.40"							
0.1	47	0.1000	6.42		Shallow Concentrated Flow,							
					Paved Kv= 20.3 fps							
0.1	35	0.4300	4.59		Shallow Concentrated Flow,							
					Short Grass Pasture Kv= 7.0 fps							
1.9	116	0.1700	1.03		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
0.5	32	0.1900	1.09		Shallow Concentrated Flow,							
					Forest w/Heavy Litter Kv= 2.5 fps							
3.3	330	Total										

Summary for Subcatchment 89S: WS 20B

Runoff = 2.15 cfs @ 11.97 hrs, Volume= 0.102 af, Depth= 1.67"

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Area	(ac) (CN De	scription							
0.	000	98 Un	reated exis	ting imperv	rious, HSG A					
0.	000		ntreated existing impervious, HSG C							
0.	000	98 Un	ntreated existing impervious, HSG D							
0.	000	98 Exi	xisting impervious to be treated as offset, HSG D							
0.	000	30 Exi	sting mead	ow, non-gra	azed, HSG A					
0.	000	71 Exi	sting mead	ow, non-gra	azed, HSG C					
0.	000	78 Exi	sting mead	ow, non-gra	azed, HSG D					
0.	000	30 Exi	sting Wood	s, Good, H	SG A					
0.	026	70 Exi	sting Wood	s, Good, H	SG C					
0.	000	77 Exi	sting Wood	s, Good, H	SG D					
0.	098	70 Pro	posed Woo	ds, Good,	HSG C					
0.	000	77 Pro	posed Woo	ds, Good,	HSG D					
0.	000	98 Pro	posed impe	ervious to b	pe treated, HSG C					
0.			posed impe	ervious to b	pe treated, HSG D					
					ervious, HSG C					
					ervious, HSG D					
	0.182 71 Proposed developed meadow, non-grazed, HSG C									
					adow, non-grazed, HSG D					
			posed deve	eloped mea	adow to be treated, HSG C					
					adow to be treated, HSG D					
			posed mea							
			posed mea							
			posed mea							
0.	000	78 Pro	posed mea	dow, ski lif	t, HSG D					
			ighted Avei							
	676	_	60% Pervio							
0.	054	7.4	0% Impervi	ous Area						
Тс	Length	Slope	Velocity	Capacity	Description					
(min)	(feet)			(cfs)	υθοσιμιστ					
5.3	76			(013)	Sheet Flow,					
ა.ა	70	0.2000	0.24		Grass: Dense n= 0.240 P2= 2.40"					
0.2	140	0.1300	13.74	228.43	Trap/Vee/Rect Channel Flow,					
0.2	140	0.1300	13.74	220.43	Bot.W=3.00' D=3.50' Z= 1.0 & 0.0 '/' Top.W=6.50'					
					n= 0.050 Mountain streams w/large boulders					
	246	Total			11- 0.000 Mountain streams whatge boulders					
5.5	216	Total								

Summary for Subcatchment 90S: WS 20C

Runoff = 11.87 cfs @ 12.13 hrs, Volume= 0.894 af, Depth= 2.05"

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Area	(ac)	CN	Desc	ription							
0.	000	98	Untre	eated exis	ting imperv	ious, HSG A					
0.	000	98 Untreated existing impervious, HSG C									
0.	000	98									
0.	000	98	Exist	ing imper	vious to be	treated as offset, HSG D					
0.	000	30	Exist	ing meado	ow, non-gra	azed, HSG A					
	000	71				azed, HSG C					
0.	000	78	Exist	ing meado	ow, non-gra	azed, HSG D					
	000	30	Exist	ing Woods	s, Good, H	SG A					
	487	70			s, Good, H						
	000	77			s, Good, H						
	117	70			ds, Good,						
	000	77			ds, Good,						
	000	98				e treated, HSG C					
	000	98				e treated, HSG D					
	368	98				rvious, HSG C					
	000	98				rvious, HSG D					
	264	71				dow, non-grazed, HSG C					
	000	78				dow, non-grazed, HSG D					
	000	71				dow to be treated, HSG C					
	000	78				dow to be treated, HSG D					
	001	71			dow, ski tra						
	000	78			dow, ski tra						
	000	71			dow, ski lift						
	000	78			dow, ski lift	t, HSG D					
	237	78		jhted Aver	•						
	869			3% Pervio							
1.	368		26.12	2% Imperv	/ious Area						
Tc	Lengt		Slope	Velocity	Capacity	Description					
(min)	(fee		(ft/ft)	(ft/sec)	(cfs)						
10.8	5	6 0.	.2000	0.09		Sheet Flow,					
						Woods: Dense underbrush n= 0.800 P2= 2.40"					
8.7	58	2 0.	.2000	1.12		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
0.3	11	6 0.	.1400	5.87	17.60	Trap/Vee/Rect Channel Flow,					
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
						n= 0.069 Riprap, 6-inch					
19.8	75	4 T	otal								

Summary for Subcatchment 91S: WS 20D

Runoff = 26.00 cfs @ 12.29 hrs, Volume= 2.724 af, Depth= 1.89"

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Area	(ac) C	N Desc	cription								
0.	000	98 Untre	Untreated existing impervious, HSG A								
			Jntreated existing impervious, HSG C								
			Intreated existing impervious, HSG D								
			Existing impervious to be treated as offset, HSG D								
			Existing meadow, non-grazed, HSG A								
					azed, HSG C						
					azed, HSG D						
				s, Good, H							
			0	s, Good, H							
				s, Good, H							
			•	ds, Good,							
				ds, Good,							
					e treated, HSG C						
					e treated, HSG D						
					rvious, HSG C						
					rvious, HSG D						
					idow, non-grazed, HSG C						
					idow, non-grazed, HSG D						
					idow to be treated, HSG C						
				•	idow to be treated, HSG D						
				dow, ski tra							
				dow, ski tra							
				dow, ski lift							
				dow, ski lift							
			hted Aver		,,1100 D						
	478		4% Pervio								
	788			/ious Area							
1.	700	10.0	0 /0 IIIIpci v	nous Arca							
Tc	Length	Slope	Velocity	Capacity	Description						
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Boompaon						
9.5	100	0.0800	0.18	(0.0)	Sheet Flow,						
0.0		0.0000	00		Grass: Dense n= 0.240 P2= 2.40"						
2.8	470	0.1600	2.80		Shallow Concentrated Flow,						
2.0		0.1000	2.00		Short Grass Pasture Kv= 7.0 fps						
5.8	408	0.2200	1.17		Shallow Concentrated Flow,						
0.0	100	0.2200	1.17		Forest w/Heavy Litter Kv= 2.5 fps						
1.9	282	0.1300	2.52		Shallow Concentrated Flow,						
1.0	202	0.1000	2.02		Short Grass Pasture Kv= 7.0 fps						
11.0	593	0.1300	0.90		Shallow Concentrated Flow,						
11.0	555	0.1000	3.50		Forest w/Heavy Litter Kv= 2.5 fps						
2.2	511	0.0600	3.84	11.52	Trap/Vee/Rect Channel Flow,						
۷.۷	511	0.0000	J.U -1	11.02	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'						
					n= 0.069 Riprap, 6-inch						
33.2	2,364	Total			11 0.000 Hiprop, 0 Hiori						
33.2	2,304	i Otal									

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Summary for Subcatchment 92S: WS 21

Runoff = 1.28 cfs @ 12.05 hrs, Volume= 0.077 af, Depth= 2.05"

Area	(ac)	CN	Desc	cription							
0.	.000	0 98 Untreated existing impervious, HSG A									
0.	.000	98		Intreated existing impervious, HSG C							
0.	.020	98	Untre	eated exis	ting imperv	rious, HSG D					
0.	.000	98	Exist	ting imperv	vious to be	treated as offset, HSG D					
0.	.000	30	Exist	ting meado	ow, non-gra	azed, HSG A					
0.	.000	71	Exist	ting meado	ow, non-gra	azed, HSG C					
0.	.000	78	Exist	ting meado	ow, non-gra	azed, HSG D					
0.	.000	30	Exist	ting Wood	s, Good, H	SG A					
0.	.000	70	Exist	ting Wood	s, Good, H	SG C					
0.	.341	77	Exist	ting Wood	s, Good, H	SG D					
0.	.000	70	Prop	osed Woo	ds, Good,	HSG C					
0.	.000	77	Prop	osed Woo	ds, Good,	HSG D					
	.000	98				e treated, HSG C					
0.	.000	98	Prop	osed impe	ervious to b	e treated, HSG D					
	.000	98				rvious, HSG C					
	.000	98				rvious, HSG D					
	.000	71				ndow, non-grazed, HSG C					
	.092	78				ndow, non-grazed, HSG D					
	.000	71				ndow to be treated, HSG C					
	.000	78				ndow to be treated, HSG D					
	.000	71			dow, ski tra						
	.000	78			dow, ski tra						
	.000	71			dow, ski lift						
0.	.000	78	Prop	osed mea	dow, ski lift	t, HSG D					
	.453	78		ghted Aver							
0.	.433		95.5	8% Pervio	us Area						
0.	.020		4.42	% Impervi	ous Area						
Tc	Lengtl		Slope	Velocity	Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
11.0	46	6 0.°	1300	0.07		Sheet Flow,					
						Woods: Dense underbrush n= 0.800 P2= 2.40"					
1.5	82	2 0.	1300	0.90		Shallow Concentrated Flow,					
						Forest w/Heavy Litter Kv= 2.5 fps					
0.3	138	3 0.0	0300	8.52	25.56	Trap/Vee/Rect Channel Flow,					
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
						n= 0.022					
12.8	266	3 To	otal								

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Summary for Subcatchment 93S: WS 21A

Runoff = 18.31 cfs @ 11.96 hrs, Volume= 0.862 af, Depth= 2.46"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.030	70	Existing Woods, Good, HSG C
0.334	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.062	98	Proposed impervious to be treated, HSG C
1.172	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.149	71	Proposed developed meadow to be treated, HSG C
2.457	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.204	83	Weighted Average
2.970		70.65% Pervious Area
1.234		29.35% Impervious Area

Type II 24-hr 25-Year Rainfall=4.20"

55310.01-West Mountain-PR

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	0.8	47	0.0200	1.02		Sheet Flow,
						Smooth surfaces n= 0.011 P2= 2.40"
	1.4	366	0.0800	4.44	13.31	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.069 Riprap, 6-inch
	0.1	62	0.0100	7.20	22.62	- · · · · · · · · · · · · · · · · · · ·
						24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'
						n= 0.013 Corrugated PE, smooth interior
	1.5	105	0.2300	1.20		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.9	170	0.0400	3.14	9.41	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.069 Riprap, 6-inch
	0.1	50	0.0500	16.10	50.59	Pipe Channel,
						24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'
						n= 0.013 Corrugated PE, smooth interior
	0.3	110	0.1300	5.65	16.96	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
_						n= 0.069 Riprap, 6-inch
	5.1	910	Total			

Summary for Subcatchment 94S: WS 21B

Runoff = 8.36 cfs @ 12.08 hrs, Volume= 0.549 af, Depth= 2.05"

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Area	(ac) (CN De	scription							
0.	.000	98 Uni	rious, HSG A							
0.	.000	98 Unt	reated exis	ting imperv	rious, HSG C					
0.000 98 Untreated existing impervious, HSG D										
0.000 98 Existing impervious to be treated as offset, HSG D										
0.	0.000 30 Existing meadow, non-grazed, HSG A									
0.	0.000 71 Existing meadow, non-grazed, HSG C									
			sting mead	ow, non-gra	azed, HSG D					
0.	.000	30 Exi	sting Wood	s, Good, H	SG A					
0.	.413	70 Exi	sting Wood	s, Good, H	SG C					
		77 Exi	sting Wood	s, Good, H	SG D					
0.	.242	70 Pro	posed Woo	ods, Good,	HSG C					
0.	.000	77 Pro	posed Woo	ods, Good,	HSG D					
					e treated, HSG C					
					e treated, HSG D					
				•	rvious, HSG C					
					rvious, HSG D					
					idow, non-grazed, HSG C					
	.118				idow, non-grazed, HSG D					
			•	•	dow to be treated, HSG C					
					dow to be treated, HSG D					
				idow, ski tra						
			•	dow, ski tra						
			•	dow, ski lift						
	.000			dow, ski lift	t, HSG D					
			ighted Ave	•						
	425	_	38% Pervic							
0.	.792	24.	62% Imper	vious Area						
Τ.	1 41.	01	V/ . I !4	0: 6	December 1999					
Tc	Length			Capacity	Description					
<u>(min)</u>	(feet)			(cfs)						
8.3	100	0.1100	0.20		Sheet Flow,					
4.0	404	0.4400	0.00		Grass: Dense n= 0.240 P2= 2.40"					
1.2	161	0.1100	2.32		Shallow Concentrated Flow,					
. .	070	0.4000	4.00		Short Grass Pasture Kv= 7.0 fps					
5.8	370	0.1800	1.06		Shallow Concentrated Flow,					
	00.1	-			Forest w/Heavy Litter Kv= 2.5 fps					
15.3	631	Total								

Summary for Subcatchment 95S: WS 21C

Runoff = 22.16 cfs @ 12.64 hrs, Volume= 3.564 af, Depth= 1.74"

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 Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
1.021	98	Untreated existing impervious, HSG C
0.399	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
3.513	71	Existing meadow, non-grazed, HSG C
3.194	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
11.552	70	Existing Woods, Good, HSG C
4.190	77	Existing Woods, Good, HSG D
0.457	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.027	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.156	71	Proposed developed meadow, non-grazed, HSG C
0.003	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.001	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
 0.000	78	Proposed meadow, ski lift, HSG D
24.513	74	Weighted Average
23.066		94.10% Pervious Area
1.447		5.90% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100		0.23	, ,	Sheet Flow,
					Grass: Dense n= 0.240 P2= 2.40"
0.1	17	0.1500	2.71		Shallow Concentrated Flow,
					Short Grass Pasture Kv= 7.0 fps
2.2	146	0.1900	1.09		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
3.2	259	0.3000	1.37		Shallow Concentrated Flow,
4.4	040	0.4400	0.00		Forest w/Heavy Litter Kv= 2.5 fps
4.4	218	0.1100	0.83		Shallow Concentrated Flow,
12	270	0.1900	1.00		Forest w/Heavy Litter Kv= 2.5 fps
4.3	279	0.1900	1.09		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
3.3	186	0.1400	0.94		Shallow Concentrated Flow,
3.3	100	0.1400	0.94		Forest w/Heavy Litter Kv= 2.5 fps
1.1	90	0.2900	1.35		Shallow Concentrated Flow,
	00	0.2000	1.00		Forest w/Heavy Litter Kv= 2.5 fps
3.6	173	0.1000	0.79		Shallow Concentrated Flow,
0.0			00		Forest w/Heavy Litter Kv= 2.5 fps
3.6	201	0.1400	0.94		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.9	256	0.1200	0.87		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
4.9	195	0.0700	0.66		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
1.7	80	0.1000	0.79		Shallow Concentrated Flow,
					Forest w/Heavy Litter Kv= 2.5 fps
7.0	334	0.1000	0.79		Shallow Concentrated Flow,
0.5	407	0.4000	0.00		Forest w/Heavy Litter Kv= 2.5 fps
3.5	187	0.1300	0.90		Shallow Concentrated Flow,
4.0	420	0.0400	4.00		Forest w/Heavy Litter Kv= 2.5 fps
1.9	139	0.2400	1.22		Shallow Concentrated Flow,
2.1	133	0.1800	1.06		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
۷.۱	133	0.1000	1.00		Forest w/Heavy Litter Kv= 2.5 fps
0.3	317	0.1600	19.24	692.62	Trap/Vee/Rect Channel Flow,
0.5	317	0.1000	13.24	032.02	Bot.W=9.00' D=3.00' Z= 1.0 '/' Top.W=15.00'
					n= 0.050 Mountain streams w/large boulders
59.5	3,310	Total			11 0.000 Modifically of our to Wildingo boulders
39.5	3,310	ı Ulai			

Summary for Subcatchment 96S: WS 22

Runoff = 1.00 cfs @ 12.04 hrs, Volume= 0.058 af, Depth= 2.13"

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Area	(ac)	CN [Desc	cription					
0.	000	98 l	Jntre	eated exis	ting imperv	rious, HSG A			
0.	0.000 98 Untreated existing impervious, HSG C								
0.025 98 Untreated existing impervious, HSG D									
0.000 98 Existing impervious to be treated as offset, HSG D									
0.	000	30 E	Exist	ting meado	ow, non-gra	azed, HSG A			
0.	000	71 E	Exist	ting meado	ow, non-gra	azed, HSG C			
0.	000	78 E	Exist	ting meado	ow, non-gra	azed, HSG D			
0.	000	30 E	Exist	ting Wood	s, Good, H	SG A			
0.	.000	70 E	Exist	ting Wood	s, Good, H	SG C			
0.	284	77 E	Exist	ting Wood	s, Good, H	SG D			
0.	.000	70 F	⊃rop	osed Woo	ds, Good,	HSG C			
0.	.000	77 F	⊃rop	osed Woo	ds, Good,	HSG D			
0.	.000	98 F	⊃rop	osed impe	ervious to b	e treated, HSG C			
0.	.000	98 F	⊃rop	osed impe	ervious to b	e treated, HSG D			
0.	.000	98 l	Jntre	eated prop	osed impe	rvious, HSG C			
0.	000	98 l	Jntre	eated prop	osed impe	rvious, HSG D			
	.000					ndow, non-grazed, HSG C			
	019					ndow, non-grazed, HSG D			
	.000					ndow to be treated, HSG C			
	.000					ndow to be treated, HSG D			
	.000				dow, ski tra				
	000				dow, ski tra				
	000				dow, ski lift				
0.	.000	78 F	⊃rop	osed mea	dow, ski lift	t, HSG D			
0.	328	79 V	Neig	ghted Aver	age				
0.	303	ç	92.3	8% Pervio	us Area				
0.	025	7	7.62	% Impervi	ous Area				
Tc	Length		ре	Velocity	Capacity	Description			
(min)	(feet) (ft	/ft)	(ft/sec)	(cfs)				
10.8	50	0.16	00	0.08		Sheet Flow,			
						Woods: Dense underbrush n= 0.800 P2= 2.40"			
8.0	50	0.16	00	1.00		Shallow Concentrated Flow,			
						Forest w/Heavy Litter Kv= 2.5 fps			
0.2	125	5 0.05	500	11.00	32.99	Trap/Vee/Rect Channel Flow,			
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'			
						n= 0.022			
11.8	225	5 Tota	al						

Summary for Subcatchment 97S: WS 23

Runoff = 1.32 cfs @ 12.00 hrs, Volume= 0.068 af, Depth= 2.21"

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Area	(ac) (ON De	escription								
0.	000	98 Ur	treated exis	ting imperv	rious, HSG A						
0.	000	98 Untreated existing impervious, HSG C									
0.	039	98 Ur	Jntreated existing impervious, HSG D								
			isting imper	vious to be	treated as offset, HSG D						
			isting mead	ow, non-gra	azed, HSG A						
					azed, HSG C						
					azed, HSG D						
			isting Wood								
			isting Wood								
			isting Wood								
			oposed Woo								
			oposed Woo								
					e treated, HSG C						
					e treated, HSG D						
	0.000 98 Untreated proposed impervious, HSG C										
	0.000 98 Untreated proposed impervious, HSG D										
		71 Proposed developed meadow, non-grazed, HSG C									
	0.157 78 Proposed developed meadow, non-grazed, HSG D										
					adow to be treated, HSG C						
					adow to be treated, HSG D						
			oposed mea								
			oposed mea	•	·						
			oposed mea								
			oposed mea	•	I, NOG D						
			eighted Ave								
	331		.46% Pervio								
0.	039	10	.54% Imper	vious Area							
Tc	Length	Slop	e Velocity	Capacity	Description						
(min)	(feet)	•		(cfs)	'						
7.6	100	0.140	0 0.22		Sheet Flow,						
					Grass: Dense n= 0.240 P2= 2.40"						
0.6	102	0.140	0 2.62		Shallow Concentrated Flow,						
					Short Grass Pasture Kv= 7.0 fps						
8.2	202	Total									

Summary for Subcatchment 98S: WS 23A

Runoff = 3.29 cfs @ 11.93 hrs, Volume= 0.144 af, Depth= 2.46"

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Area	(ac) C	N Des	cription							
0.000 98 Untreated existing impervious, HSG A										
0.	0.000 98 Untreated existing impervious, HSG C									
0.	0.000 98 Untreated existing impervious, HSG D									
0.	0.000 98 Existing impervious to be treated as offset, HSG D									
0.	0.000 30 Existing impervious to be treated as onset, 1100 B									
0.	0.000 71 Existing meadow, non-grazed, HSG C									
0.	.000	78 Exis	ting mead	ow, non-gra	azed, HSG D					
0.	.000	30 Exis	ting Wood	s, Good, H	SG A					
0.	.000	70 Exis	ting Wood	s, Good, H	SG C					
0.	.000	77 Exis	ting Wood	s, Good, H	SG D					
0.	.000	70 Prop	osed Woo	ds, Good,	HSG C					
0.	.000	77 Prop	osed Woo	ds, Good,	HSG D					
0.	.000	98 Prop	osed impe	ervious to b	pe treated, HSG C					
0.			osed impe	ervious to b	pe treated, HSG D					
			eated prop	osed impe	rvious, HSG C					
					rvious, HSG D					
					adow, non-grazed, HSG C					
					adow, non-grazed, HSG D					
					adow to be treated, HSG C					
					adow to be treated, HSG D					
				dow, ski tra						
				dow, ski tra						
				dow, ski lif						
				dow, ski lif	t, HSG D					
			ghted Aver							
	.543	_	5% Pervio							
0.	.159	22.6	55% Imper	vious Area						
Tc	Length		Velocity	Capacity	Description					
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)						
1.3	19	0.4200	0.25		Sheet Flow,					
					Grass: Dense n= 0.240 P2= 2.40"					
8.0	217	0.0800	4.44	13.31	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.069 Riprap, 6-inch					
0.7	89	0.0200	2.22	6.65	Trap/Vee/Rect Channel Flow,					
					Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'					
					n= 0.069 Riprap, 6-inch					
2.8	325	Total								

Summary for Subcatchment 99S: WS 23B

Runoff = 5.79 cfs @ 12.06 hrs, Volume= 0.364 af, Depth= 2.64"

Area (ac) CN Description

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	0.	000	98 Untr	eated exis	ting imperv	ious, HSG A								
	0.	000	98 Untr	eated exis	ting imperv	ious, HSG C								
	0.	000	98 Untr	eated exis	ting imperv	ious, HSG D								
	0.000 98 Existing impervious to be treated as offset, HSG D													
	0.000 30 Existing meadow, non-grazed, HSG A													
	0.	0.000 71 Existing meadow, non-grazed, HSG C												
			78 Exis	Existing meadow, non-grazed, HSG D										
			30 Exis	ting Wood:	s, Good, H	SG A								
					s, Good, H									
					s, Good, H									
					ds, Good, l									
					ds, Good, l									
						e treated, HSG C								
						e treated, HSG D								
						rvious, HSG C								
						rvious, HSG D								
						dow, non-grazed, HSG C								
						dow, non-grazed, HSG D								
						dow to be treated, HSG C								
						dow to be treated, HSG D								
					dow, ski tra	·								
					dow, ski tra									
					dow, ski lift									
_					dow, ski lift	., NSG D								
				ghted Aver										
		045		4% Pervio										
	U.	610	36.8	6% Imper	llous Area									
	To	Longth	Clone	Volocity	Canacity	Description								
	Tc	Length	Slope	Velocity	Capacity (cfs)	Description								
_	(min)	(feet)	(ft/ft)	(ft/sec)	(CIS)	Oh a st Elass								
	7.2	100	0.1600	0.23		Sheet Flow,								
	0.4	22	0.4600	1.00		Grass: Dense n= 0.240 P2= 2.40"								
	0.4	22	0.1600	1.00		Shallow Concentrated Flow,								
	3.1	173	0.1400	0.94		Forest w/Heavy Litter Kv= 2.5 fps								
	3.1	173	0.1400	0.94		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps								
	3.1	166	0.1300	0.90		Shallow Concentrated Flow,								
	٥.١	100	0.1300	0.90		Forest w/Heavy Litter Kv= 2.5 fps								
-	13.8	461	Total			1 orest W/1 leavy Litter 11v- 2.0 1ps								
	13.0	401	Total											

Summary for Subcatchment 100S: WS 24

Runoff = 31.67 cfs @ 12.12 hrs, Volume= 2.351 af, Depth= 2.05"

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 Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.506	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.568	71	Existing meadow, non-grazed, HSG C
6.423	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.073	70	Existing Woods, Good, HSG C
5.770	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.038	98	Untreated proposed impervious, HSG D
0.017	71	Proposed developed meadow, non-grazed, HSG C
0.357	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.027	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
13.779	78	Weighted Average
13.235		96.05% Pervious Area
0.544		3.95% Impervious Area

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	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
_	7.4	100	0.1500	0.23	, ,	Sheet Flow,
						Grass: Dense n= 0.240 P2= 2.40"
	0.1	10	0.1500	2.71		Shallow Concentrated Flow,
						Short Grass Pasture Kv= 7.0 fps
	4.4	210	0.1000	0.79		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
	0.4	333	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	0.2	221	0.1100	16.31	48.94	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	0.3	317	0.1100	16.31	48.94	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	0.3	305	0.1400	18.40	55.21	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	0.2	241	0.1200	17.04	51.11	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
	0.4	400	0.0000	04.00	05.00	n= 0.022
	0.1	138	0.2000	21.99	65.98	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
	0.0	224	0.4500	40.05	E7 4 4	n= 0.022
	0.2	224	0.1500	19.05	57.14	Trap/Vee/Rect Channel Flow,
						Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
	2.1	118	0.1400	0.94		Shallow Concentrated Flow,
	۷.۱	110	0.1400	0.94		Forest w/Heavy Litter Kv= 2.5 fps
	3.5	167	0.1000	0.79		Shallow Concentrated Flow,
	5.5	101	0.1000	0.13		Forest w/Heavy Litter Kv= 2.5 fps
	0.1	89	0.1000	15.55	46.66	Trap/Vee/Rect Channel Flow,
	0.1	00	0.1000	10.00	40.00	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
	0.1	105	0.0900	14.75	44.26	Trap/Vee/Rect Channel Flow,
	٠.,	.00	2.2000	3	5	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.022
-	10.4	2 570	Total			

19.4 2,578 Total

Summary for Subcatchment 103S: WS 1-8

Runoff = 77.21 cfs @ 12.41 hrs, Volume= 9.606 af, Depth= 1.82"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.004	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.012	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
9.906	70	Existing Woods, Good, HSG C
17.781	77	Existing Woods, Good, HSG D
2.274	70	Proposed Woods, Good, HSG C
3.491	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.042	98	Untreated proposed impervious, HSG D
0.006	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
8.051	71	Proposed meadow, ski trail, HSG C
18.519	78	Proposed meadow, ski trail, HSG D
2.211	71	Proposed meadow, ski lift, HSG C
1.103	78	Proposed meadow, ski lift, HSG D
63.400	75	Weighted Average
63.354		99.93% Pervious Area
0.046		0.07% Impervious Area

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T (miı)		ength (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.	.7	100	0.2900	0.29		Sheet Flow,
						Grass: Dense n= 0.240 P2= 2.40"
1.	.1	249	0.2900	3.77		Shallow Concentrated Flow,
2	0	074	0.2000	4.50		Short Grass Pasture Kv= 7.0 fps
2.	.9	2/4	0.3900	1.56		Shallow Concentrated Flow,
1	.5	353	0.3300	4.02		Forest w/Heavy Litter Kv= 2.5 fps Shallow Concentrated Flow,
1.	.5	333	0.5500	4.02		Short Grass Pasture Kv= 7.0 fps
0	.6	277	0.2500	7.84	23.52	· · · · · · · · · · · · · · · · · · ·
	. •		0.2000		20.02	Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00'
						n= 0.069 Riprap, 6-inch
5.	.7	374	0.1900	1.09		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
5.	.8	462	0.2800	1.32		Shallow Concentrated Flow,
						Forest w/Heavy Litter Kv= 2.5 fps
2.	.3	579	0.3500	4.14		Shallow Concentrated Flow,
		004		4.40		Short Grass Pasture Kv= 7.0 fps
4.	.4	294	0.2000	1.12		Shallow Concentrated Flow,
10	2	639	0.1700	1.03		Forest w/Heavy Litter Kv= 2.5 fps
10	.ა	639	0.1700	1.03		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
0	.6	363	0.1600	10.18	71.29	Trap/Vee/Rect Channel Flow,
O.	.0	303	0.1000	10.10	71.25	Bot.W=6.00' D=1.00' Z= 1.0 '/' Top.W=8.00'
						n= 0.050
1.	.3	806	0.1600	10.18	71.29	Trap/Vee/Rect Channel Flow,
						Bot.W=6.00' D=1.00' Z= 1.0 '/ Top.W=8.00'
						n= 0.050
42	.2	4,770	Total			

Summary for Reach 6R: stream

Inflow Area = 24.822 ac, 24.69% Impervious, Inflow Depth = 2.21" for 25-Year event

Inflow = 26.45 cfs @ 12.11 hrs, Volume= 4.567 af

Outflow = 26.37 cfs @ 12.12 hrs, Volume= 4.567 af, Atten= 0%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 8.45 fps, Min. Travel Time= 0.6 min Avg. Velocity = 1.76 fps, Avg. Travel Time= 2.6 min

Peak Storage= 876 cf @ 12.11 hrs

Average Depth at Peak Storage= 0.82', Surface Width= 4.64' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 132.62 cfs

3.00' x 2.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 7.00' Length= 280.0' Slope= 0.1643 '/' Inlet Invert= 1,815.00', Outlet Invert= 1,769.00'

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Summary for Reach 8R: ditch to stream

Inflow Area = 16.590 ac, 25.90% Impervious, Inflow Depth = 2.34" for 25-Year event

Inflow = 18.99 cfs @ 12.05 hrs, Volume= 3.233 af

Outflow = 18.61 cfs @ 12.08 hrs, Volume= 3.233 af, Atten= 2%, Lag= 1.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 8.09 fps, Min. Travel Time= 1.0 min Avg. Velocity = 1.73 fps, Avg. Travel Time= 4.6 min

Peak Storage= 1,116 cf @ 12.06 hrs

Average Depth at Peak Storage= 0.64', Surface Width= 4.29' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 144.00 cfs

 $3.00' \times 2.00'$ deep channel, n= 0.050

Side Slope Z-value = 1.0 '/' Top Width = 7.00'

Length= 475.0' Slope= 0.1937 '/'

Inlet Invert= 1,910.00', Outlet Invert= 1,818.00'



Summary for Reach 9R: stream

Inflow Area = 48.906 ac, 9.82% Impervious, Inflow Depth = 1.83" for 25-Year event

Inflow = 47.32 cfs @ 12.36 hrs, Volume= 7.452 af

Outflow = 47.23 cfs @ 12.38 hrs, Volume= 7.452 af, Atten= 0%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 9.37 fps, Min. Travel Time= 0.6 min Avg. Velocity = 3.42 fps, Avg. Travel Time= 1.6 min

Peak Storage= 1,665 cf @ 12.37 hrs

Average Depth at Peak Storage= 1.10', Surface Width= 5.70' Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 139.42 cfs

 $3.50' \times 2.00'$ deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 7.50'

Length= 330.0' Slope= 0.1424 '/'

Inlet Invert= 1,787.00', Outlet Invert= 1,740.00'

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Summary for Reach 10R: stream

Inflow Area = 47.746 ac, 9.75% Impervious, Inflow Depth = 1.83" for 25-Year event

Inflow = 46.94 cfs @ 12.36 hrs, Volume= 7.283 af

Outflow = 46.91 cfs @ 12.36 hrs, Volume= 7.283 af, Atten= 0%, Lag= 0.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 9.98 fps, Min. Travel Time= 0.2 min

Avg. Velocity = 3.63 fps, Avg. Travel Time= 0.6 min

Peak Storage= 658 cf @ 12.36 hrs

Average Depth at Peak Storage= 1.04', Surface Width= 5.57'

Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 152.96 cfs

 $3.50' \times 2.00'$ deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 7.50'

Length= 140.0' Slope= 0.1714 '/'

Inlet Invert= 1,814.00', Outlet Invert= 1,790.00'



Summary for Reach 11R: stream

Inflow Area = 17.266 ac, 10.36% Impervious, Inflow Depth = 1.89" for 25-Year event

Inflow = 26.00 cfs @ 12.29 hrs, Volume= 2.724 af

Outflow = 25.90 cfs @ 12.31 hrs, Volume= 2.724 af, Atten= 0%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 8.96 fps, Min. Travel Time= 0.6 min Avg. Velocity = 3.00 fps, Avg. Travel Time= 1.7 min

Peak Storage= 870 cf @ 12.30 hrs

Average Depth at Peak Storage= 0.77', Surface Width= 4.54'

Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 145.10 cfs

Type II 24-hr 25-Year Rainfall=4.20" Printed 9/24/2021

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3.00' x 2.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 7.00' Length= 300.0' Slope= 0.1967 '/' Inlet Invert= 1,910.00', Outlet Invert= 1,851.00'



Summary for Reach 14R: drinage ditch

Inflow Area = 3.366 ac, 24.54% Impervious, Inflow Depth = 2.05" for 25-Year event

Inflow 9.63 cfs @ 12.05 hrs, Volume= 0.574 af

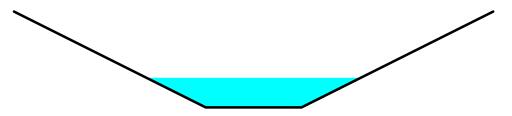
Outflow 9.14 cfs @ 12.11 hrs, Volume= 0.574 af, Atten= 5%, Lag= 3.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 4.65 fps, Min. Travel Time= 2.2 min Avg. Velocity = 1.37 fps, Avg. Travel Time= 7.3 min

Peak Storage= 1,196 cf @ 12.07 hrs Average Depth at Peak Storage= 0.62', Surface Width= 4.47' Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 106.43 cfs

2.00' x 2.00' deep channel, n= 0.069 Side Slope Z-value= 2.0 '/' Top Width= 10.00' Length= 600.0' Slope= 0.1500 '/' Inlet Invert= 2,060.00', Outlet Invert= 1,970.00'



Summary for Reach 17R: stream

17.941 ac, 14.03% Impervious, Inflow Depth = 2.03" for 25-Year event Inflow Area =

32.27 cfs @ 12.12 hrs, Volume= 3.042 af Inflow

32.02 cfs @ 12.14 hrs, Volume= Outflow 3.042 af, Atten= 1%, Lag= 0.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 10.15 fps, Min. Travel Time= 0.3 min Avg. Velocity = 1.20 fps, Avg. Travel Time= 2.8 min

Peak Storage= 646 cf @ 12.13 hrs Average Depth at Peak Storage= 0.68', Surface Width= 5.35'

Bank-Full Depth= 1.00' Flow Area= 5.0 sf, Capacity= 62.68 cfs

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4.00' x 1.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 6.00' Length= 204.0' Slope= 0.2696 '/' Inlet Invert= 1,711.00', Outlet Invert= 1,656.00'



Summary for Reach 19R: stream

Inflow Area = 16.549 ac, 14.99% Impervious, Inflow Depth = 2.03" for 25-Year event

Inflow = 31.84 cfs @ 12.11 hrs, Volume= 2.804 af

Outflow = 31.44 cfs @ 12.13 hrs, Volume= 2.804 af, Atten= 1%, Lag= 0.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Max. Velocity= 10.05 fps, Min. Travel Time= 0.4 min

Avg. Velocity = 1.38 fps, Avg. Travel Time= 3.1 min

Peak Storage= 802 cf @ 12.12 hrs

Average Depth at Peak Storage= 1.04', Surface Width= 4.08' Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 63.50 cfs

2.00' x 1.50' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 5.00' Length= 254.0' Slope= 0.2087 '/' Inlet Invert= 1,770.00', Outlet Invert= 1,717.00'



Summary for Reach 23R: ditch

Inflow Area = 11.506 ac, 14.02% Impervious, Inflow Depth = 2.10" for 25-Year event

Inflow = 21.16 cfs @ 12.11 hrs, Volume= 2.017 af

Outflow = 20.74 cfs @ 12.14 hrs, Volume= 2.017 af, Atten= 2%, Lag= 2.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 8.01 fps, Min. Travel Time= 1.1 min Avg. Velocity = 1.02 fps, Avg. Travel Time= 9.0 min

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Peak Storage= 1,444 cf @ 12.12 hrs

Average Depth at Peak Storage= 0.71', Surface Width= 4.42' Bank-Full Depth= 1.00' Flow Area= 4.0 sf, Capacity= 38.44 cfs

 $3.00' \times 1.00'$ deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 5.00'

Length= 550.0' Slope= 0.1727 '/'

Inlet Invert= 1,945.00', Outlet Invert= 1,850.00'



Summary for Reach 24R: ditch

Inflow Area = 8.652 ac, 9.56% Impervious, Inflow Depth = 2.02" for 25-Year event

Inflow = 18.32 cfs @ 12.09 hrs, Volume= 1.458 af

Outflow = 18.09 cfs @ 12.12 hrs, Volume= 1.458 af, Atten= 1%, Lag= 1.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 6.42 fps, Min. Travel Time= 1.0 min Avg. Velocity = 1.98 fps, Avg. Travel Time= 3.4 min

Peak Storage= 1,140 cf @ 12.10 hrs

Average Depth at Peak Storage= 0.66', Surface Width= 5.64' Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 163.35 cfs

3.00' x 2.00' deep channel, n= 0.069 Riprap, 6-inch

Side Slope Z-value= 2.0 '/' Top Width= 11.00'

Length= 400.0' Slope= 0.2375 '/'

Inlet Invert= 2,015.00', Outlet Invert= 1,920.00'



Summary for Reach 29R: stream

Inflow Area = 68.800 ac, 9.84% Impervious, Inflow Depth = 1.94" for 25-Year event

Inflow = 94.91 cfs @ 12.13 hrs, Volume= 11.145 af

Outflow = 93.64 cfs @ 12.17 hrs, Volume= 11.145 af, Atten= 1%, Lag= 2.0 min

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Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Max. Velocity= 9.90 fps, Min. Travel Time= 1.1 min Avg. Velocity = 1.34 fps, Avg. Travel Time= 8.0 min

Peak Storage= 6,170 cf @ 12.15 hrs Average Depth at Peak Storage= 1.94', Surface Width= 6.87' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 100.62 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders Side Slope Z-value= 1.0 '/' Top Width= 7.00' Length= 645.0' Slope= 0.0946 '/' Inlet Invert= 1,596.00', Outlet Invert= 1,535.00'



Summary for Reach 32R: dead end stream

Inflow Area = 36.642 ac, 8.77% Impervious, Inflow Depth = 1.89" for 25-Year event

Inflow = 37.87 cfs @ 12.11 hrs, Volume= 5.769 af

Outflow = 37.21 cfs @ 12.16 hrs, Volume= 5.769 af, Atten= 2%, Lag= 2.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Max. Velocity= 9.29 fps, Min. Travel Time= 1.4 min Avg. Velocity = 1.53 fps, Avg. Travel Time= 8.4 min

Peak Storage= 3,101 cf @ 12.13 hrs Average Depth at Peak Storage= 1.01', Surface Width= 5.01' Bank-Full Depth= 1.50' Flow Area= 6.8 sf, Capacity= 76.81 cfs

3.00' x 1.50' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 6.00' Length= 770.0' Slope= 0.1610 '/' Inlet Invert= 1,760.00', Outlet Invert= 1,636.00'



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Summary for Reach 34R: stream

Inflow Area = 30.406 ac, 6.66% Impervious, Inflow Depth = 1.80" for 25-Year event

Inflow = 30.01 cfs @ 12.43 hrs, Volume= 4.568 af

Outflow = 29.96 cfs @ 12.46 hrs, Volume= 4.568 af, Atten= 0%, Lag= 1.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 8.48 fps, Min. Travel Time= 0.7 min Avg. Velocity = 2.62 fps, Avg. Travel Time= 2.4 min

Peak Storage= 1,310 cf @ 12.44 hrs

Average Depth at Peak Storage= 0.91', Surface Width= 4.81' Bank-Full Depth= 1.50' Flow Area= 6.8 sf, Capacity= 73.80 cfs

 $3.00' \times 1.50'$ deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 6.00'

Length= 370.0' Slope= 0.1486 '/'

Inlet Invert= 1,815.00', Outlet Invert= 1,760.00'



Summary for Reach 35R: flow in wetland

Inflow Area = 24.244 ac, 4.80% Impervious, Inflow Depth = 1.69" for 25-Year event

Inflow = 24.79 cfs @ 12.42 hrs, Volume= 3.409 af

Outflow = 24.62 cfs @ 12.50 hrs, Volume= 3.409 af, Atten= 1%, Lag= 5.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 3.11 fps, Min. Travel Time= 3.2 min Avg. Velocity = 0.83 fps, Avg. Travel Time= 12.0 min

Peak Storage= 4,753 cf @ 12.45 hrs

Average Depth at Peak Storage= 0.63', Surface Width= 13.25' Bank-Full Depth= 1.00' Flow Area= 13.0 sf, Capacity= 53.58 cfs

12.00' x 1.00' deep channel, n= 0.100 Very weedy reaches w/pools

Side Slope Z-value = 1.0 '/' Top Width = 14.00'

Length= 600.0' Slope= 0.0917 '/'

Inlet Invert= 2,080.00', Outlet Invert= 2,025.00'

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Summary for Reach 39R: stream

Inflow Area = 2.899 ac, 24.25% Impervious, Inflow Depth = 2.42" for 25-Year event

Inflow = 4.84 cfs @ 12.11 hrs, Volume= 0.585 af

Outflow = 4.53 cfs @ 12.23 hrs, Volume= 0.585 af, Atten= 7%, Lag= 7.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity = 4.31 fps, Min. Travel Time = 4.2 min Avg. Velocity = 0.93 fps, Avg. Travel Time = 19.7 min

Peak Storage= 1,173 cf @ 12.16 hrs

Average Depth at Peak Storage= 0.25', Surface Width= 4.50' Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 161.10 cfs

4.00' x 2.00' deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 8.00'

Length= 1,100.0' Slope= 0.1527 '/'

Inlet Invert= 1,780.00', Outlet Invert= 1,612.00'



Summary for Reach 40R: stream

Inflow Area = 58.284 ac, 2.15% Impervious, Inflow Depth = 1.89" for 25-Year event

Inflow = 66.52 cfs @ 12.06 hrs, Volume= 9.188 af

Outflow = 65.11 cfs @ 12.44 hrs, Volume= 9.188 af, Atten= 2%, Lag= 22.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 8.48 fps, Min. Travel Time= 1.5 min

Avg. Velocity = 2.14 fps, Avg. Travel Time= 6.0 min

Peak Storage= 5,937 cf @ 12.42 hrs

Average Depth at Peak Storage= 1.09', Surface Width= 8.18'

Bank-Full Depth= 2.00' Flow Area= 16.0 sf, Capacity= 186.92 cfs

 $6.00' \times 2.00'$ deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 10.00'

Length= 770.0' Slope= 0.1013 '/'

Inlet Invert= 1,563.00', Outlet Invert= 1,485.00'

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Summary for Reach 42R: stream

Inflow Area = 37.607 ac, 3.33% Impervious, Inflow Depth = 1.89" for 25-Year event

Inflow = 57.57 cfs @ 12.30 hrs, Volume= 5.926 af

Outflow = 55.89 cfs @ 12.42 hrs, Volume= 5.926 af, Atten= 3%, Lag= 7.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity = 9.85 fps, Min. Travel Time = 4.1 min Avg. Velocity = 2.16 fps, Avg. Travel Time = 18.9 min

Peak Storage= 13,927 cf @ 12.35 hrs

Average Depth at Peak Storage= 0.96', Surface Width= 6.92' Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 60.47 cfs

5.00' x 1.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 2,440.0' Slope= 0.1639 '/'

Inlet Invert= 1,973.00', Outlet Invert= 1,573.00'

Summary for Reach 45R: flow in wetland

Inflow Area = 26.451 ac, 1.62% Impervious, Inflow Depth = 1.82" for 25-Year event

Inflow = 42.28 cfs @ 12.23 hrs, Volume= 4.008 af

Outflow = 40.71 cfs @ 12.36 hrs, Volume= 4.008 af, Atten= 4%, Lag= 7.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 4.83 fps, Min. Travel Time= 4.1 min Avg. Velocity = 1.14 fps, Avg. Travel Time= 17.6 min

Peak Storage= 10,175 cf @ 12.29 hrs

Average Depth at Peak Storage= 1.05', Surface Width= 10.19' Bank-Full Depth= 1.00' Flow Area= 8.0 sf, Capacity= 37.72 cfs

6.00' x 1.00' deep channel, n= 0.100 Very weedy reaches w/pools

Side Slope Z-value= 2.0 '/' Top Width= 10.00'

Length= 1,200.0' Slope= 0.1442 '/'

Inlet Invert= 2,160.00', Outlet Invert= 1,987.00'

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Summary for Reach 102R: stream

Inflow Area = 321.351 ac, 5.57% Impervious, Inflow Depth > 1.88" for 25-Year event

Inflow = 314.05 cfs @ 12.44 hrs, Volume= 50.302 af

Outflow = 313.02 cfs @ 12.48 hrs, Volume= 50.300 af, Atten= 0%, Lag= 2.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 10.07 fps, Min. Travel Time= 1.5 min Avg. Velocity = 1.25 fps, Avg. Travel Time= 11.9 min

Peak Storage= 27,713 cf @ 12.45 hrs

Average Depth at Peak Storage= 2.19', Surface Width= 16.39' Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 883.89 cfs

12.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 20.00'

Length= 890.0' Slope= 0.0562 '/'

Inlet Invert= 1,480.00', Outlet Invert= 1,430.00'



Summary for Reach 103R: stream

Inflow Area = 118.865 ac, 0.17% Impervious, Inflow Depth = 1.81" for 25-Year event

Inflow = 151.82 cfs @ 12.38 hrs, Volume= 17.970 af

Outflow = 151.46 cfs @ 12.39 hrs, Volume= 17.970 af, Atten= 0%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 9.71 fps, Min. Travel Time= 0.5 min

Avg. Velocity = 2.79 fps, Avg. Travel Time= 1.6 min

Peak Storage= 4,300 cf @ 12.39 hrs

Average Depth at Peak Storage= 1.62', Surface Width= 11.25'

Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 440.61 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 275.0' Slope= 0.0800 '/'

Inlet Invert= 1,502.00', Outlet Invert= 1,480.00'

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Summary for Reach 104R: stream

Inflow Area = 190.718 ac, 9.01% Impervious, Inflow Depth > 1.91" for 25-Year event

Inflow = 164.13 cfs @ 12.53 hrs, Volume= 30.299 af

Outflow = 163.85 cfs @ 12.56 hrs, Volume= 30.299 af, Atten= 0%, Lag= 1.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 10.78 fps, Min. Travel Time= 0.8 min Avg. Velocity = 1.45 fps, Avg. Travel Time= 5.7 min

Peak Storage= 7,536 cf @ 12.54 hrs

Average Depth at Peak Storage= 1.59', Surface Width= 11.18' Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 495.10 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 14.00'

Length= 495.0' Slope= 0.1010 '/'

Inlet Invert= 1,530.00', Outlet Invert= 1,480.00'



Summary for Reach 108R: stream

Inflow Area = 31.149 ac, 0.22% Impervious, Inflow Depth = 1.74" for 25-Year event

Inflow = 42.77 cfs @ 12.30 hrs, Volume= 4.529 af

Outflow = 41.62 cfs @ 12.42 hrs, Volume= 4.529 af, Atten= 3%, Lag= 7.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 7.66 fps, Min. Travel Time= 4.3 min Avg. Velocity = 2.10 fps, Avg. Travel Time= 15.6 min

Peak Storage= 10,756 cf @ 12.35 hrs

Average Depth at Peak Storage= 0.63', Surface Width= 9.27' Bank-Full Depth= 2.00' Flow Area= 20.0 sf, Capacity= 291.19 cfs

8.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 12.00'

Length= 1,968.0' Slope= 0.1443 '/'

Inlet Invert= 1,810.00', Outlet Invert= 1,526.00'

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Summary for Reach 110R: stream

Inflow Area = 156.700 ac, 6.38% Impervious, Inflow Depth = 1.82" for 25-Year event

Inflow = 147.04 cfs @ 12.52 hrs, Volume= 23.744 af

Outflow = 146.50 cfs @ 12.57 hrs, Volume= 23.744 af, Atten= 0%, Lag= 2.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 12.38 fps, Min. Travel Time= 1.6 min Avg. Velocity = 1.66 fps, Avg. Travel Time= 11.8 min

Peak Storage= 13,930 cf @ 12.55 hrs

Average Depth at Peak Storage= 1.57', Surface Width= 9.13' Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 465.00 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 12.00'

Length= 1,175.0' Slope= 0.1464 '/'

Inlet Invert= 1,714.00', Outlet Invert= 1,542.00'



Summary for Reach 111R: upperstream

Inflow Area = 13.616 ac, 5.02% Impervious, Inflow Depth = 1.86" for 25-Year event

Inflow = 14.69 cfs @ 12.40 hrs, Volume= 2.116 af

Outflow = 14.61 cfs @ 12.45 hrs, Volume= 2.116 af, Atten= 1%, Lag= 2.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 7.28 fps, Min. Travel Time= 1.6 min Avg. Velocity = 1.46 fps, Avg. Travel Time= 7.9 min

Peak Storage= 1,381 cf @ 12.42 hrs

Average Depth at Peak Storage= 0.56', Surface Width= 4.13' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 139.11 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 686.0' Slope= 0.1808 '/'

Inlet Invert= 2,074.00', Outlet Invert= 1,950.00'



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Summary for Reach 112R: stream

Inflow Area = 22.637 ac, 11.13% Impervious, Inflow Depth = 1.95" for 25-Year event

Inflow = 30.44 cfs @ 11.97 hrs, Volume= 3.677 af

Outflow = 28.43 cfs @ 12.04 hrs, Volume= 3.677 af, Atten= 7%, Lag= 4.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 8.14 fps, Min. Travel Time= 2.5 min Avg. Velocity = 1.41 fps, Avg. Travel Time= 14.5 min

Peak Storage= 4,385 cf @ 12.00 hrs Average Depth at Peak Storage= 0.63', Surface Width= 6.27' Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 210.11 cfs

5.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders

Side Slope Z-value = 1.0 '/' Top Width = 9.00'

Length= 1,230.0' Slope= 0.1772 '/'

Inlet Invert= 1,950.00', Outlet Invert= 1,732.00'



Summary for Reach 113R: ditch

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 2.03" for 25-Year event

Inflow = 32.02 cfs @ 12.14 hrs, Volume= 3.042 af

Outflow = 31.67 cfs @ 12.16 hrs, Volume= 3.042 af, Atten= 1%, Lag= 1.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 5.31 fps, Min. Travel Time= 0.8 min Avg. Velocity = 0.76 fps, Avg. Travel Time= 5.4 min

Peak Storage= 1,479 cf @ 12.15 hrs

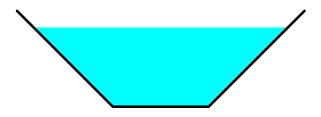
Average Depth at Peak Storage= 1.65', Surface Width= 5.31' Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 46.73 cfs

2.00' x 2.00' deep channel, n= 0.069

Side Slope Z-value= 1.0 '/' Top Width= 6.00'

Length= 245.0' Slope= 0.0694 '/'

Inlet Invert= 1,656.00', Outlet Invert= 1,639.00'



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Summary for Reach 114R: dead end channel

Inflow Area = 26.607 ac, 23.56% Impervious, Inflow Depth = 2.17" for 25-Year event

Inflow = 27.17 cfs @ 12.12 hrs, Volume= 4.816 af

Outflow = 27.06 cfs @ 12.13 hrs, Volume= 4.816 af, Atten= 0%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 11.33 fps, Min. Travel Time= 0.6 min Avg. Velocity = 2.41 fps, Avg. Travel Time= 2.8 min

Peak Storage= 957 cf @ 12.13 hrs Average Depth at Peak Storage= 0.65', Surface Width= 4.31'

Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 200.37 cfs

3.00' x 2.00' deep channel, n= 0.050 Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 400.0' Slope= 0.3750 '/'

Inlet Invert= 1,750.00', Outlet Invert= 1,600.00'



Summary for Reach 115R: stream

Inflow Area = 41.779 ac, 7.74% Impervious, Inflow Depth = 1.81" for 25-Year event

Inflow = 41.82 cfs @ 12.41 hrs, Volume= 6.288 af

Outflow = 41.79 cfs @ 12.42 hrs, Volume= 6.288 af, Atten= 0%, Lag= 0.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Max. Velocity= 9.45 fps, Min. Travel Time= 0.2 min Avg. Velocity = 3.55 fps, Avg. Travel Time= 0.6 min

Peak Storage= 575 cf @ 12.41 hrs

Average Depth at Peak Storage= 1.08', Surface Width= 5.17' Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 128.34 cfs

 $3.00' \times 2.00'$ deep channel, n= 0.050

Side Slope Z-value= 1.0 '/' Top Width= 7.00'

Length= 130.0' Slope= 0.1538 '/'

Inlet Invert= 1,844.00', Outlet Invert= 1,824.00'



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Summary for Pond 2P: Culvert 7C Driveway

Inflow Area = 48.906 ac, 9.82% Impervious, Inflow Depth = 1.83" for 25-Year event

Inflow = 47.32 cfs @ 12.36 hrs, Volume= 7.452 af

Primary = 47.32 cfs @ 12.36 hrs, Volume= 7.452 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 3P: Culvert 7B -Road A

Inflow Area = 47.746 ac, 9.75% Impervious, Inflow Depth = 1.83" for 25-Year event

Inflow = 46.94 cfs @ 12.36 hrs, Volume= 7.283 af

Primary = 46.94 cfs @ 12.36 hrs, Volume= 7.283 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 4P: trail culvert

Inflow Area = 5.237 ac, 26.12% Impervious, Inflow Depth = 2.05" for 25-Year event

Inflow = 11.87 cfs @ 12.13 hrs, Volume= 0.894 af

Primary = 11.87 cfs @ 12.13 hrs, Volume= 0.894 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 5P: Culvert 7A

Inflow Area = 41.779 ac, 7.74% Impervious, Inflow Depth = 1.81" for 25-Year event

Inflow = 41.82 cfs @ 12.41 hrs, Volume= 6.288 af

Primary = 41.82 cfs @ 12.41 hrs, Volume= 6.288 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 7P: Culvert 6A

Inflow Area = 24.822 ac, 24.69% Impervious, Inflow Depth = 2.21" for 25-Year event

Inflow = 26.45 cfs @ 12.11 hrs, Volume= 4.567 af

Primary = 26.45 cfs @ 12.11 hrs, Volume= 4.567 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 8P: new 36

Inflow Area = 13.779 ac, 3.95% Impervious, Inflow Depth = 2.05" for 25-Year event

Inflow = 31.67 cfs @ 12.12 hrs, Volume= 2.351 af

Outflow = 31.67 cfs @ 12.12 hrs, Volume= 2.351 af, Atten= 0%, Lag= 0.0 min

Primary = 31.67 cfs @ 12.12 hrs, Volume= 2.351 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

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Peak Elev= 2.38' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	36.0" Round Culvert
			L= 70.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 0.00' / -2.80' S= 0.0400 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=31.19 cfs @ 12.12 hrs HW=2.36' (Free Discharge)
—1=Culvert (Inlet Controls 31.19 cfs @ 5.23 fps)

Summary for Pond 9P: new 36

Inflow Area = 27.913 ac, 22.52% Impervious, Inflow Depth = 2.16" for 25-Year event

Inflow = 29.86 cfs @ 12.12 hrs, Volume= 5.022 af

Outflow = 29.86 cfs @ 12.12 hrs, Volume= 5.022 af, Atten= 0%, Lag= 0.0 min

Primary = 29.86 cfs @ 12.12 hrs, Volume= 5.022 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 2.29' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	36.0" Round Culvert
			L= 70.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 0.00' / -1.05' S= 0.0150 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=29.67 cfs @ 12.12 hrs HW=2.28' (Free Discharge)
1=Culvert (Inlet Controls 29.67 cfs @ 5.14 fps)

Summary for Pond 10P: new 36

Inflow Area = 20.993 ac, 12.16% Impervious, Inflow Depth = 2.04" for 25-Year event

Inflow = 37.51 cfs @ 12.13 hrs, Volume= 3.563 af

Outflow = 37.51 cfs @ 12.13 hrs, Volume= 3.563 af, Atten= 0%, Lag= 0.0 min

Primary = 37.51 cfs @ 12.13 hrs, Volume= 3.563 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Peak Elev= 2.70' @ 12.13 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	36.0" Round Culvert
			L= 70.0' CMP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 0.00' / -2.10' S= 0.0300 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=37.14 cfs @ 12.13 hrs HW=2.68' (Free Discharge) 1=Culvert (Inlet Controls 37.14 cfs @ 5.57 fps)

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Summary for Pond 12P: new 48

75.057 ac, 9.07% Impervious, Inflow Depth = 1.95" for 25-Year event Inflow Area =

Inflow 106.30 cfs @ 12.15 hrs, Volume= 12.172 af

106.30 cfs @ 12.15 hrs, Volume= Outflow 12.172 af, Atten= 0%, Lag= 0.0 min

Primary 106.30 cfs @ 12.15 hrs, Volume= 12.172 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 5.09' @ 12.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	48.0" Round Culvert L= 50.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -2.80' S= 0.0560 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=106.19 cfs @ 12.15 hrs HW=5.08' (Free Discharge) 1=Culvert (Inlet Controls 106.19 cfs @ 8.45 fps)

Summary for Pond 13P: Culvert 6B

26.607 ac, 23.56% Impervious, Inflow Depth = 2.17" for 25-Year event Inflow Area =

Inflow = 27.17 cfs @ 12.12 hrs, Volume= 4.816 af

Primary = 27.17 cfs @ 12.12 hrs, Volume= 4.816 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 16P: trunk line from condos

Inflow Area = 5.094 ac, 51.81% Impervious, Inflow Depth = 2.80" for 25-Year event

24.33 cfs @ 11.94 hrs, Volume= Inflow 1.189 af

Outflow 24.33 cfs @ 11.94 hrs, Volume= 1.189 af, Atten= 0%, Lag= 0.0 min

24.33 cfs @ 11.94 hrs, Volume= 1.189 af Primary

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,714.95' @ 11.94 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,712.00'	30.0" Round Culvert
	-		L= 700.0' CPP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 1,712.00' / 1,694.00' S= 0.0257 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=23.80 cfs @ 11.94 hrs HW=1,714.88' (Free Discharge) 1=Culvert (Inlet Controls 23.80 cfs @ 4.85 fps)

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Summary for Pond 18P: Culvert 5 - Trail

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 2.03" for 25-Year event

Inflow = 32.27 cfs @ 12.12 hrs, Volume= 3.042 af

Primary = 32.27 cfs @ 12.12 hrs, Volume= 3.042 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 20P: road culvert

Inflow Area = 16.549 ac, 14.99% Impervious, Inflow Depth = 2.03" for 25-Year event

Inflow = 31.84 cfs @ 12.11 hrs, Volume= 2.804 af

Outflow = 31.84 cfs @ 12.11 hrs, Volume= 2.804 af, Atten= 0%, Lag= 0.0 min

Primary = 31.84 cfs @ 12.11 hrs, Volume= 2.804 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,775.66' @ 12.11 hrs

Device Routing Invert Outlet Devices

#1 Primary 1,774.00' 72.0" Round Culvert w/ 24.0" inside fill

L= 50.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,772.00' / 1,771.00' S= 0.0200 '/' Cc= 0.900

n= 0.025 Corrugated metal, Flow Area= 20.02 sf

Primary OutFlow Max=31.44 cfs @ 12.11 hrs HW=1,775.64' (Free Discharge)

1=Culvert (Inlet Controls 31.44 cfs @ 3.24 fps)

Summary for Pond 21P: Pipe Down Slope

Inflow Area = 14.576 ac, 16.67% Impervious, Inflow Depth = 2.09" for 25-Year event

Inflow = 28.09 cfs @ 12.12 hrs, Volume= 2.541 af

Outflow = 28.09 cfs @ 12.12 hrs, Volume= 2.541 af, Atten= 0%, Lag= 0.0 min

Primary = 28.09 cfs @ 12.12 hrs, Volume= 2.541 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Peak Elev= 1,814.19' @ 12.12 hrs Surf.Area= 0.001 ac Storage= 0.003 af

Plug-Flow detention time= 0.2 min calculated for 2.541 af (100% of inflow)

Center-of-Mass det. time= 0.2 min (967.8 - 967.6)

<u>Volume</u>	Invert	Avail.Storaç	ge Storage Description
#1	1,812.00'	0.016	af 8.00'D x 14.00'H Vertical Cone/Cylinder
Device	Routing	Invert	Outlet Devices
#1	Primary	,	48.0" Round Culvert L= 100.0' CMP, projecting, no headwall, Ke= 0.900
			Inlet / Outlet Invert= 1,812.00' / 1,780.00' S= 0.3200 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 12.57 sf

Primary OutFlow Max=27.64 cfs @ 12.12 hrs HW=1,814.17' (Free Discharge)
—1=Culvert (Inlet Controls 27.64 cfs @ 3.96 fps)

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Summary for Pond 22P: Pipe Down Slope

Inflow Area = 14.576 ac, 16.67% Impervious, Inflow Depth = 2.09" for 25-Year event

Inflow = 28.09 cfs @ 12.12 hrs, Volume= 2.541 af

Outflow = 28.09 cfs @ 12.12 hrs, Volume= 2.541 af, Atten= 0%, Lag= 0.0 min

Primary = 28.09 cfs @ 12.12 hrs, Volume= 2.541 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,823.92' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,822.00'	48.0" Round Culvert
	•		L= 100.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,822.00' / 1,818.00' S= 0.0400 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 12.57 sf

Primary OutFlow Max=27.66 cfs @ 12.12 hrs HW=1,823.90' (Free Discharge) 1=Culvert (Inlet Controls 27.66 cfs @ 4.70 fps)

Summary for Pond 25P: road culvert

Inflow Area = 5.782 ac, 8.73% Impervious, Inflow Depth = 1.97" for 25-Year event

Inflow = 11.77 cfs @ 12.16 hrs, Volume= 0.949 af

Primary = 11.77 cfs @ 12.16 hrs, Volume= 0.949 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 26P: road culvert

Inflow Area = 2.870 ac, 11.22% Impervious, Inflow Depth = 2.13" for 25-Year event

Inflow = 8.70 cfs @ 12.04 hrs, Volume= 0.509 af

Primary = 8.70 cfs @ 12.04 hrs, Volume= 0.509 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 28P: road culvert

Inflow Area = 11.506 ac, 14.02% Impervious, Inflow Depth = 2.10" for 25-Year event

Inflow = 21.16 cfs @ 12.11 hrs, Volume= 2.017 af

Primary = 21.16 cfs @ 12.11 hrs, Volume= 2.017 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 30P: Culvert 4 -Trail

Inflow Area = 15.570 ac, 7.12% Impervious, Inflow Depth = 1.99" for 25-Year event

Inflow = 30.69 cfs @ 12.13 hrs, Volume= 2.584 af

Primary = 30.69 cfs @ 12.13 hrs, Volume= 2.584 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

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Summary for Pond 31P: Trail Culvert

Inflow Area = 49.423 ac, 9.08% Impervious, Inflow Depth = 1.88" for 25-Year event

Inflow = 63.39 cfs @ 12.14 hrs, Volume= 7.748 af

Outflow = 63.39 cfs @ 12.14 hrs, Volume= 7.748 af, Atten= 0%, Lag= 0.0 min

Primary = 63.39 cfs @ 12.14 hrs, Volume= 7.748 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,628.94' @ 12.14 hrs

 Device
 Routing
 Invert
 Outlet Devices

 #1
 Primary
 1,626.00'
 72.0" Round Culvert

 L= 300.0'
 CMP, projecting, no headwall, Ke= 0.900

 Inlet / Outlet Invert= 1,626.00' / 1,610.00'
 S= 0.0533 '/'
 Cc= 0.900

 n= 0.025
 Corrugated metal, Flow Area= 28.27 sf

Primary OutFlow Max=62.79 cfs @ 12.14 hrs HW=1,628.92' (Free Discharge)
1=Culvert (Inlet Controls 62.79 cfs @ 4.59 fps)

Summary for Pond 33P: Culvert 12 -Road

Inflow Area = 36.642 ac, 8.77% Impervious, Inflow Depth = 1.89" for 25-Year event

Inflow = 37.87 cfs @ 12.11 hrs, Volume= 5.769 af

Primary = 37.87 cfs @ 12.11 hrs, Volume= 5.769 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 36P: trail culvert

Inflow Area = 24.244 ac. 4.80% Impervious, Inflow Depth = 1.69" for 25-Year event

Inflow = 24.79 cfs @ 12.42 hrs, Volume= 3.409 af

Primary = 24.79 cfs @ 12.42 hrs, Volume= 3.409 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 37P: Road E Culvert

Inflow Area = 27.875 ac, 6.15% Impervious, Inflow Depth = 1.77" for 25-Year event

Inflow = 28.46 cfs @ 12.46 hrs, Volume= 4.102 af

Primary = 28.46 cfs @ 12.46 hrs, Volume= 4.102 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 38P: Road A Culvert

Inflow Area = 21.776 ac, 3.80% Impervious, Inflow Depth = 1.67" for 25-Year event

Inflow = 23.89 cfs @ 12.42 hrs, Volume= 3.035 af

Primary = 23.89 cfs @ 12.42 hrs, Volume= 3.035 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

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Summary for Pond 41P: Culvert 3 - Trail 3

Inflow Area = 58.284 ac, 2.15% Impervious, Inflow Depth = 1.89" for 25-Year event

Inflow = 66.52 cfs @ 12.06 hrs, Volume= 9.188 af

Primary = 66.52 cfs @ 12.06 hrs, Volume= 9.188 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 43P: Culvert 11 -Trail 3

Inflow Area = 35.358 ac, 2.93% Impervious, Inflow Depth = 1.88" for 25-Year event

Inflow = 53.70 cfs @ 12.31 hrs, Volume= 5.527 af

Primary = 53.70 cfs @ 12.31 hrs, Volume= 5.527 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 44P: Culvert 13 -Road A

Inflow Area = 26.451 ac, 1.62% Impervious, Inflow Depth = 1.82" for 25-Year event

Inflow = 42.28 cfs @ 12.23 hrs, Volume= 4.008 af

Primary = 42.28 cfs @ 12.23 hrs, Volume= 4.008 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 105P: Culvert 1 - Trail

Inflow Area = 180.600 ac, 7.35% Impervious, Inflow Depth = 1.87" for 25-Year event

Inflow = 160.09 cfs @ 12.54 hrs, Volume= 28.192 af

Primary = 160.09 cfs @ 12.54 hrs, Volume= 28.192 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 106P: Culvert 2- Trail 2

Inflow Area = 118.865 ac, 0.17% Impervious, Inflow Depth = 1.81" for 25-Year event

Inflow = 151.82 cfs @ 12.38 hrs, Volume= 17.970 af

Primary = 151.82 cfs @ 12.38 hrs, Volume= 17.970 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond 107P: Culvert 10 -Trail 2

Inflow Area = 31.149 ac, 0.22% Impervious, Inflow Depth = 1.74" for 25-Year event

Inflow = 42.77 cfs @ 12.30 hrs, Volume= 4.529 af

Primary = 42.77 cfs @ 12.30 hrs, Volume= 4.529 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

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Summary for Pond 108P: new 36

Inflow Area = 50.264 ac, 9.71% Impervious, Inflow Depth = 1.83" for 25-Year event

Inflow = 47.79 cfs @ 12.38 hrs, Volume= 7.683 af

Outflow = 47.79 cfs @ 12.38 hrs, Volume= 7.683 af, Atten= 0%, Lag= 0.0 min

Primary = 47.79 cfs @ 12.38 hrs, Volume= 7.683 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,743.47' @ 12.38 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,740.00'	36.0" Round Culvert
			L= 70.0' CMP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 1,740.00' / 1,738.00' S= 0.0286 '/' Cc= 0.900
			n= 0.025 Corrugated metal, Flow Area= 7.07 sf

Primary OutFlow Max=47.70 cfs @ 12.38 hrs HW=1,743.46' (Free Discharge) 1=Culvert (Inlet Controls 47.70 cfs @ 6.75 fps)

Summary for Pond 109P: Culvert 9-Trail Crossing

Inflow Area = 87.844 ac, 2.93% Impervious, Inflow Depth = 1.74" for 25-Year event

Inflow = 77.66 cfs @ 12.51 hrs, Volume= 12.737 af

Primary = 77.66 cfs @ 12.51 hrs, Volume= 12.737 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Pond P1: Condos Complex Wet Pond

Inflow Area =	11.937 ac, 34.04% Impervious, Inflow	Depth = 2.47 "	for 25-Year event
Inflow =	42.37 cfs @ 11.95 hrs, Volume=	2.459 af	
- · ·	1100 6 0 10001 111		

Outflow = 11.62 cfs @ 12.20 hrs, Volume= 2.451 af, Atten= 73%, Lag= 14.9 min

Primary = 7.21 cfs @ 12.20 hrs, Volume= 2.049 af Secondary = 4.41 cfs @ 12.20 hrs, Volume= 0.402 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,684.00' Surf.Area= 29,057 sf Storage= 54,189 cf

Peak Elev= 1,686.36' @ 12.20 hrs Surf.Area= 39,018 sf Storage= 104,265 cf (50,076 cf above start)

Plug-Flow detention time= 1,543.2 min calculated for 1.207 af (49% of inflow)

Center-of-Mass det. time= 708.0 min (1,523.1 - 815.1)

Volume	Invert	Avail.Storage	Storage Description
#1	1,678.00'	54,189 cf	Permanent Pool (Irregular)Listed below (Recalc)
#2	1,684.00'	66,450 cf	CPv (Irregular)Listed below (Recalc)
•		100.000.5	

120,639 cf Total Available Storage

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Elevation	on	Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area	
(fee	et)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)	
1,678.0	00	4,365	481.7	0	0	4,365	
1,679.0	00	5,839	500.5	5,084	5,084	5,914	
1,680.0	00	7,369	519.4	6,589	11,673	7,531	
1,681.0	00	8,954	538.2	8,149	19,822	9,199	
1,682.0	00	10,598	557.1	9,764	29,586	10,935	
1,683.0	00	12,297	575.9	11,437	41,023	12,722	
1,684.0	00	14,053	594.8	13,165	54,189	14,578	
Elevation	on	Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area	
(fee	et)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)	
1,684.0	00	15,004	752.2	0	0	15,004	
1,685.0	00	21,703	791.7	18,251	18,251	19,918	
1,686.0	00	24,167	734.9	22,924	41,175	26,860	
1,687.0	00	26,400	753.8	25,275	66,450	29,220	
Device	Routing	Inv	ert Outlet	Devices			
#1	Primary	1,681.	00' 24.0"	Round Culvert			
	,	,	L= 100	0.0' CPP, projecti	ing, no headwall, k	(e= 0.900	
						S= 0.0100 '/' Cc= 0.90	0
					interior, Flow Area		
#2	Device 1	1,684.				ed to weir flow at low he	ads
#3	Device 1	1,686.	00' 36.0"	Horiz. Orifice/Gra	ate C= 0.600		
			Limite	d to weir flow at lo	w heads		
#4	Seconda	ry 1,686.			n Broad-Crested F		
						20 1.40 1.60 1.80 2.0	0
				3.00 3.50 4.00 4.			
						2.68 2.66 2.64 2.64	
			2.64 2	2.05 2.05 2.06 2.	.66 2.68 2.70 2.7	4	

Primary OutFlow Max=7.19 cfs @ 12.20 hrs HW=1,686.36' (Free Discharge)

1=Culvert (Passes 7.19 cfs of 24.94 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.48 cfs @ 7.17 fps)

-3=Orifice/Grate (Weir Controls 6.71 cfs @ 1.97 fps)

Secondary OutFlow Max=4.39 cfs @ 12.20 hrs HW=1,686.36' (Free Discharge) 4=Broad-Crested Rectangular Weir (Weir Controls 4.39 cfs @ 1.52 fps)

Summary for Pond P10: Lot R31 Soil Filter

Inflow Area =	8.042 ac, 30.75% Impervious, Inflow	Depth = 2.54" for 25-Year event
Inflow =	21.50 cfs @ 11.99 hrs, Volume=	1.700 af
Outflow =	6.03 cfs @ 12.48 hrs, Volume=	1.700 af, Atten= 72%, Lag= 29.0 min
Primary =	6.03 cfs @ 12.48 hrs, Volume=	1.700 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,975.33' Surf.Area= 4,651 sf Storage= 614 cf

Peak Elev= 1,982.42' @ 12.48 hrs Surf.Area= 9,530 sf Storage= 36,477 cf (35,863 cf above start)

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Plug-Flow detention time= 643.9 min calculated for 1.685 af (99% of inflow)

Center-of-Mass det. time= 632.2 min (1,456.2 - 824.0)

Volume	Invert	Avail.	Storage	Storage	Description		
#1	1,975.00'	53	3,120 cf	Custom	Stage Data (Irregu	ılar)Listed below (I	Recalc)
	_						
Elevation		urf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area
(feet))	(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,975.00)	4,651	326.9	0.0	0	0	4,651
1,976.50)	4,651	326.9	40.0	2,791	2,791	5,141
1,978.00)	4,651	326.9	40.0	2,791	5,581	5,632
1,980.00)	6,726	364.6	100.0	11,313	16,895	7,818
1,982.00)	9,027	402.3	100.0	15,697	32,591	10,244
1,984.00)	11,554	440.0	100.0	20,529	53,120	12,907
Device	Routing	Inve	ert Outle	et Devices	3		
#1	Primary	1,974.0	00' 24.0	" Round	Culvert		
			L= 1	00.0' CP	P, projecting, no he	eadwall, Ke= 0.900	0
			Inlet	/ Outlet Ir	nvert= 1,974.00' / 1,	972.00' S= 0.020	0 '/' Cc= 0.900
			n= 0	.011 PVC	C, smooth interior, I	Flow Area= 3.14 sf	•
#2	Device 1	1,975.3	33' 2.5"	Vert. Orif	fice/Grate C= 0.60	00 Limited to weir	flow at low heads
#3	Device 2	1,975.0	00' 3.00	0 in/hr Ex	filtration over Sur	face area	
#4	Device 1	1,982.0	00' 24.0 '	" Horiz. C	Orifice/Grate C= 0	.600	
			Limit	ed to weir	r flow at low heads		
#5	Secondary	1,982.7	70' 6.0'	long x 8.	0' breadth Broad-0	Crested Rectangu	ılar Weir
	•				.20 0.40 0.60 0.80		
					0 4.00 4.50 5.00		
			Coef	. (English) 2.43 2.54 2.70	2.69 2.68 2.68 2	.66 2.64 2.64
					5 2.66 2.66 2.68		

Primary OutFlow Max=5.97 cfs @ 12.48 hrs HW=1,982.42' (Free Discharge)

-1=Culvert (Passes 5.97 cfs of 32.52 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.43 cfs @ 12.72 fps)
-3=Exfiltration (Passes 0.43 cfs of 0.66 cfs potential flow)

-4=Orifice/Grate (Weir Controls 5.54 cfs @ 2.11 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,975.33' (Free Discharge)

5=Broad-Creeted Posternoville Max (Control of the Control of the Con -5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P11: Parking Lot G Wet Pond

Inflow Area =	8.304 ac, 46.98% Impervious, Inflow	v Depth = 2.81" for 25-Year event
Inflow =	40.48 cfs @ 11.95 hrs, Volume=	1.944 af
Outflow =	3.19 cfs @ 12.50 hrs, Volume=	1.809 af, Atten= 92%, Lag= 33.2 min
Primary =	3.19 cfs @ 12.50 hrs, Volume=	1.809 af
Secondary =	0.00 cfs @ 0.00 hrs. Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,534.10' Surf.Area= 24,527 sf Storage= 51,257 cf

Peak Elev= 1,536.81' @ 12.50 hrs Surf.Area= 32,738 sf Storage= 100,876 cf (49,619 cf above start)

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Plug-Flow detention time= 4,009.4 min calculated for 0.633 af (33% of inflow) Center-of-Mass det. time= 1,626.5 min (2,429.7 - 803.2)

Volume	Invert	Avail.	Storage	Storage Description	on	
#1	1,527.00'	49	9,963 cf	Permanent Pool	(Irregular)Listed b	elow (Recalc)
#2	1,534.00'	77	7,661 cf	CPv (Irregular)Lis	sted below (Recald	c)
		127	7,624 cf	Total Available St	orage	
Elevation		ırf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area
(feet)		(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,527.00		3,398	312.2	0	0	3,398
1,528.00		4,364	331.3	3,871	3,871	4,428
1,529.00		5,386	350.1	4,866	8,737	5,502
1,530.00		6,465	369.0	5,917	14,654	6,642
1,531.00		7,600	387.8	7,025	21,679	7,836
1,532.00		8,792	406.7	8,189	29,868	9,095
1,533.00		10,040	425.5	9,409	39,277	10,408
1,534.00)	11,345	444.4	10,686	49,963	11,787
Elevation		ırf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area
(feet)		(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,534.00)	12,700	621.7	0	0	12,700
1,535.00)	17,927	661.0	15,239	15,239	16,762
1,536.00)	19,949	587.1	18,929	34,168	24,129
1,537.00		21,739	606.0	20,838	55,005	26,020
1,538.00)	23,585	624.8	22,656	77,661	27,961
Device	Routing	Inve	ert Outle	et Devices		
#1	Primary	1,530.0	00' 36.0	" Round Culvert		
	-		L= 1	00.0' CPP, projec	ting, no headwall,	Ke= 0.900
			Inlet	/ Outlet Invert= 1,5	30.00' / 1,528.00'	S= 0.0200 '/' Cc= 0.900
				.011 PVC, smooth		
#2	Device 1	1,534.1	10' 2.0"	Vert. Orifice/Grate	e C= 0.600 Limit	ted to weir flow at low heads
#3	Device 1	1,536.6		" Horiz. Orifice/Gr		
шл	Caaamalam.	4 500 0		ted to weir flow at lo		Do atomovilou Wain
#4	Secondary	1,536.9				Rectangular Weir
						1.20 1.40 1.60 1.80 2.00
				3.00 3.50 4.00 4		80 260 266 264 264
						88 2.68 2.66 2.64 2.64
			2.04	2.65 2.65 2.66 2	2.00 2.00 2.10 2.	14

Primary OutFlow Max=3.14 cfs @ 12.50 hrs HW=1,536.81' (Free Discharge)

_1=Culvert (Passes 3.14 cfs of 61.92 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.17 cfs @ 7.80 fps)

-3=Orifice/Grate (Weir Controls 2.97 cfs @ 1.50 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,534.10' (Free Discharge) 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

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Summary for Pond P12: Drop-off Parking Lot Soil Filter

Inflow Area = 4.069 ac, 25.29% Impervious, Inflow Depth = 2.48" for 25-Year event

Inflow 11.95 cfs @ 11.94 hrs, Volume= 0.842 af

1.58 cfs @ 12.80 hrs, Volume= Outflow 0.842 af, Atten= 87%, Lag= 52.1 min

Primary = 1.58 cfs @ 12.80 hrs, Volume= 0.842 af 0.00 cfs @ 0.00 hrs, Volume= 0.000 af Secondary =

Routing by Stor-Ind method. Time Span= 0.00-120.00 hrs. dt= 0.05 hrs.

Starting Elev= 1,466.33' Surf.Area= 3,179 sf Storage= 420 cf

Peak Elev= 1,472.67' @ 12.80 hrs Surf.Area= 6,547 sf Storage= 20,992 cf (20,573 cf above start)

Plug-Flow detention time= 1,108.7 min calculated for 0.832 af (99% of inflow)

Center-of-Mass det. time= 1,087.4 min (1,909.8 - 822.4)

Volume	Invert	Avail.S	Storage	Storage	Description		
#1	1,466.00'	30	,846 cf	Custom Stage Data (Irregular)Listed below (Recalc)			
Elevatio	n Su	ırf.Area	Perim.	Voids	Inc.Store	Cum.Store	Wet.Area
(fee	t)	(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,466.0	0	3,179	247.1	0.0	0	0	3,179
1,467.5	0	3,179	247.1	40.0	1,907	1,907	3,550
1,469.0		3,179	247.1	40.0	1,907	3,815	3,920
1,470.0	0	3,948	265.9	100.0	3,557	7,371	4,730
1,472.0	0	5,657	303.6	100.0	9,554	16,925	6,530
1,473.0	0	7,016	329.2	100.0	6,324	23,250	7,858
1,474.0	0	8,192	360.5	100.0	7,596	30,846	9,610
Device	Routing	Inve	rt Outle	et Device	S		
#1	Primary	1,466.0			I Outlet Culvert		
					PP, projecting, no he		
					nvert= 1,466.00' / 1,		
					rugated PE, smooth		
#2	Device 1	1,466.3			ifice/Grate C= 0.60		flow at low heads
#3	Device 2	1,466.0			xfiltration over Sui		
#4	Device 1	1,472.5			Orifice/Grate C= 0	0.600	
					ir flow at low heads		
#5	Secondary	1,473.0			.0' breadth Broad-		
					0.20 0.40 0.60 0.80		1.60 1.80 2.00
					50 4.00 4.50 5.00		
					n) 2.43 2.54 2.70		.66 2.64 2.64
			2.64	2.65 2.6	65 2.66 2.66 2.68	2.70 2.74	

Primary OutFlow Max=1.55 cfs @ 12.80 hrs HW=1,472.67' (Free Discharge)

-1=Outlet Culvert (Passes 1.55 cfs of 16.34 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.15 cfs @ 12.06 fps)
-3=Exfiltration (Passes 0.15 cfs of 0.45 cfs potential flow)

-4=Orifice/Grate (Weir Controls 1.40 cfs @ 1.34 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,466.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

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Summary for Pond P13: Parking Lot H Wet Pond

Inflow Area = 2.921 ac, 40.05% Impervious, Inflow Depth = 2.73" for 25-Year event

Inflow = 14.91 cfs @ 11.93 hrs, Volume= 0.664 af

Outflow = 0.84 cfs @ 12.70 hrs, Volume= 0.662 af, Atten= 94%, Lag= 46.3 min

Primary = 0.84 cfs @ 12.70 hrs, Volume= 0.662 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,567.00' Surf.Area= 11,858 sf Storage= 14,847 cf

Peak Elev= 1,568.90' @ 12.70 hrs Surf.Area= 17,025 sf Storage= 32,014 cf (17,166 cf above start)

Plug-Flow detention time= 2,170.8 min calculated for 0.321 af (48% of inflow)

Center-of-Mass det. time= 1,117.1 min (1,921.9 - 804.8)

		-	·	•			
Volume	Invert	Avail.S	Storage	Storage Descripti	on		
#1	1,561.00'	14	1,847 cf	Permanent Pool	(Irregular)Listed	pelow (Recalc)	
#2	1,567.00'		,200 cf				
		45	5,047 cf	Total Available St			
Elevatio	n Su	rf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area	
(fee	t)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)	
1,561.0	0	495	188.6	0	0	495	
1,566.0	0	4,031	282.9	9,898	9,898	4,224	
1,567.0	0	5,929	467.9	4,950	14,847	15,284	
	_						
Elevatio		rf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area	
(fee		(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)	
1,567.0		5,929	467.9	0	0	5,929	
1,568.0		9,766	479.1	7,768	7,768	6,897	
1,569.0		11,246	454.1	10,497	18,265	8,811	
1,570.0	0	12,637	473.0	11,935	30,200	10,280	
Davisa	Davitina	مريما	0	at Davissa			
Device	Routing	Inve		et Devices			
#1	Primary	1,560.0		" Round Culvert	e	I/ 0.000	
				00.0' CPP, projec			000
						S= 0.0100 '/' Cc= 0).900
що.	Davisa 1	4 507 0		.011 PVC, smooth			
#2	Device 1	1,567.0				ited to weir flow at low	/ neads
#3	Device 1	1,568.8		" Horiz. Orifice/G			
#1	Cocondon	1 560 0		ed to weir flow at l		I Bootongulor Mair	
#4	Secondary	1,569.0				Rectangular Weir	2.00
						1.20 1.40 1.60 1.80	∠.00
			∠.ɔ∪	3.00 3.50 4.00 4	4.50 5.00 5.50		

Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64

2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

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Primary OutFlow Max=0.81 cfs @ 12.70 hrs HW=1,568.90' (Free Discharge)

_1=Culvert (Passes 0.81 cfs of 73.10 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.14 cfs @ 6.49 fps)

-3=Orifice/Grate (Weir Controls 0.67 cfs @ 1.04 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,567.00' (Free Discharge) 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Summary for Pond P14: Timbers 1-7 Wet Pond

Inflow Area = 7.622 ac, 23.79% Impervious, Inflow Depth = 2.13" for 25-Year event

Inflow = 31.40 cfs @ 11.93 hrs, Volume= 1.351 af

Outflow = 7.13 cfs @ 12.06 hrs, Volume= 1.347 af, Atten= 77%, Lag= 7.9 min

Primary = 6.76 cfs @ 12.06 hrs, Volume= 1.344 af Secondary = 0.37 cfs @ 12.06 hrs, Volume= 0.003 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,721.00' Surf.Area= 19,738 sf Storage= 31,523 cf

Peak Elev= 1,722.87' @ 12.06 hrs Surf.Area= 26,781 sf Storage= 57,863 cf (26,340 cf above start)

Plug-Flow detention time= 1,459.1 min calculated for 0.623 af (46% of inflow)

Center-of-Mass det. time= 614.0 min (1,439.9 - 825.9)

Volume	Invert	Avail.Storage	Storage Description
#1	1,715.00'	31,523 cf	Permanent Pool (Irregular)Listed below (Recalc)
#2	1,721.00'	46,722 cf	CPv (Irregular)Listed below (Recalc)

78.245 cf Total Available Storage

	•	0,210 01	Total / Wallable Ctol	age	
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,715.00	1,909	325.0	0	0	1,909
1,716.00	2,912	343.8	2,393	2,393	2,964
1,717.00	3,972	362.7	3,428	5,821	4,084
1,718.00	5,088	381.6	4,519	10,340	5,263
1,719.00	6,261	400.4	5,664	16,004	6,497
1,720.00	7,490	419.3	6,866	22,870	7,796
1,721.00	9,869	603.5	8,652	31,523	22,797
Elevation	Surf.Area	Perim.	Inc.Store	Cum.Store	Wet.Area
(feet)	(sq-ft)	(feet)	(cubic-feet)	(cubic-feet)	(sq-ft)
1,721.00	9,869	603.5	0	0	9,869
1,722.00	15,216	645.8	12,446	12,446	14,120
1,723.00	17,184	596.9	16,190	28,636	18,996
1,724.00	19,003	615.8	18,086	46,722	20,918
Device Routin	a Inv	ert Outle	et Devices		

#1 Primary 1,714.00' **36.0" Round Culvert**

L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,714.00' / 1,713.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 7.07 sf

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#2	Device 1	1,721.00'	2.5" Vert. Orifice/Grate - Gravel Bench Underdrain C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,722.40'	24.0" Horiz. Orifice/Grate C= 0.600
#4	Secondary	1,722.80'	Limited to weir flow at low heads 8.0' long x 8.0' breadth Broad-Crested Rectangular Weir
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50
			Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=6.60 cfs @ 12.06 hrs HW=1,722.86' (Free Discharge)

-1=Culvert (Passes 6.60 cfs of 72.89 cfs potential flow)

2=Orifice/Grate - Gravel Bench Underdrain(Orifice Controls 0.22 cfs @ 6.38 fps)

-3=Orifice/Grate (Weir Controls 6.38 cfs @ 2.21 fps)

Secondary OutFlow Max=0.28 cfs @ 12.06 hrs HW=1,722.86' (Free Discharge) 4=Broad-Crested Rectangular Weir (Weir Controls 0.28 cfs @ 0.59 fps)

Summary for Pond P16: Timbers 10 Soil Filter

Inflow Area =	0.660 ac, 35.00% Impervious, Inflow D	epth = 2.37" for 25-Year event
Inflow =	2.94 cfs @ 11.92 hrs, Volume=	0.131 af
Outflow =	0.17 cfs @ 12.78 hrs, Volume=	0.133 af, Atten= 94%, Lag= 51.2 min
Primary =	0.17 cfs @ 12.78 hrs, Volume=	0.133 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 2,085.33' Surf.Area= 877 sf Storage= 116 cf Peak Elev= 2,089.31' @ 12.78 hrs Surf.Area= 1,645 sf Storage= 2,683 cf (2,568 cf above start)

Plug-Flow detention time= (not calculated: outflow precedes inflow) Center-of-Mass det. time= 160.7 min (977.7 - 817.0)

Volume	Inv	ert Avai	il.Storage	Storage D	escription				
#1	2,085.	00'	9,992 cf	Custom Stage Data (Irregular)Listed below (Recalc)					
Elevatio		Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)		
2,085.0	00	877	192.0	0.0	0	0	877		
2,086.5	50	877	192.0	40.0	526	526	1,165		
2,088.0	00	877	192.0	40.0	526	1,052	1,453		
2,090.0	00	2,142	229.7	100.0	2,926	3,979	2,787		
2,092.0	00	3,964	290.6	100.0	6,013	9,992	5,361		
Device	Routing	In	vert Outle	et Devices					
#1	Primary	2,085	5.00' 24.0	" Round (Outlet Culvert				
	•	•	L= 1	00.0' CPF	, projecting, no h	eadwall, Ke= 0.90	00		
			Inlet	/ Outlet Inv	/ert= 2,085.00' / 2	,084.00' S= 0.01	00 '/' Cc= 0.900		
			n= 0	.013, Flow	Area= 3.14 sf				
#2	Device '	1 2,085	5.33' 1.0"	Vert. Orifi	ce/Grate C= 0.6	00 Limited to we	ir flow at low heads		
#3	Device '	1 2,085	5.00' 3.00	0 in/hr Exf	iltration over Su	rface area			

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#4 Device 1 2,091.40' **24.0" Horiz. Orifice/Grate** C= 0.600
Limited to weir flow at low heads

#5 Secondary 2,091.50' **6.0' long x 8.0' breadth Broad-Crested Rectangular Weir**Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50
Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64

2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.17 cfs @ 12.78 hrs HW=2,089.31' (Free Discharge)

-1=Outlet Culvert (Passes 0.17 cfs of 21.74 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.05 cfs @ 9.56 fps)

—3=Exfiltration (Exfiltration Controls 0.11 cfs)

-4=Orifice/Grate (Controls 0.00 cfs)

#4

Device 1

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=2,085.33' (Free Discharge) 5=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Summary for Pond P17: Timbers 11-14 Soil Filter

1.829 ac, 34.99% Impervious, Inflow Depth = 2.64" for 25-Year event Inflow Area = Inflow 8.36 cfs @ 11.96 hrs, Volume= 0.402 af Outflow = 1.74 cfs @ 12.13 hrs, Volume= 0.402 af, Atten= 79%, Lag= 10.4 min 1.74 cfs @ 12.13 hrs, Volume= Primary 0.402 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 2,119.33' Surf.Area= 2,430 sf Storage= 321 cf

Peak Elev= 2,123.88' @ 12.13 hrs Surf.Area= 3,887 sf Storage= 8,809 cf (8,488 cf above start)

Plug-Flow detention time= 591.9 min calculated for 0.394 af (98% of inflow) Center-of-Mass det. time= 567.0 min (1,377.8 - 810.9)

Volume	Inv	ert Avai	I.Storage	Storage D	escription				
#1	2,119.0	00'	13,840 cf	Custom Stage Data (Irregular)Listed below (Recalc)					
Elevatio		Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)		
2,119.0	00	2,430	238.8	0.0	0	0	2,430		
2,120.5	50	2,430	238.8	40.0	1,458	1,458	2,788		
2,122.0	00	2,430	238.8	40.0	1,458	2,916	3,146		
2,124.0	00	3,989	280.8	100.0	6,355	9,271	4,959		
2,125.0	00	5,174	303.4	100.0	4,569	13,840	6,050		
Device	Routing	ln	vert Outle	et Devices					
#1	Primary	2,119	.00' 24.0	" Round C	Outlet Culvert		_		
	•		L= 1	00.0' CPF	p, projecting, no he	eadwall, Ke= 0.90	0		
			Inlet	/ Outlet Inv	/ert= 2,119.00' / 2	,117.00' S= 0.020	00 '/' Cc= 0.900		
			n= 0	.013, Flow	Area= 3.14 sf				
#2	Device 1	2,119	.33' 1.5"	Vert. Orifi	ce/Grate C= 0.6	00 Limited to wei	r flow at low heads		
#3	Device 2	2,119	.00' 3.00	0 in/hr Exf	iltration over Su	rface area			

2,123.70' **24.0" Horiz. Orifice/Grate** C= 0.600

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Limited to weir flow at low heads

#5 Secondary 2,124.00'

#2

#3

#4

Device 1

Device 2

Device 1

1.739.33'

1,739.00'

1.743.50'

6.0' long x 8.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=1.70 cfs @ 12.13 hrs HW=2,123.88' (Free Discharge)

1=Outlet Culvert (Passes 1.70 cfs of 23.53 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.13 cfs @ 10.20 fps)

3=Exfiltration (Passes 0.13 cfs of 0.27 cfs potential flow)

-4=Orifice/Grate (Weir Controls 1.58 cfs @ 1.39 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=2,119.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P2: Townhomes 3-6 Soil Filter

Inflow Area = 3.212 ac, 25.50% Impervious, Inflow Depth = 2.05" for 25-Year event Inflow 9.78 cfs @ 12.02 hrs, Volume= 0.548 af Outflow = 1.34 cfs @ 12.46 hrs, Volume= 0.548 af, Atten= 86%, Lag= 26.1 min Primary = 1.34 cfs @ 12.46 hrs, Volume= 0.548 af 0.00 hrs, Volume= Secondary = 0.00 cfs @ 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs Starting Elev= 1,739.33' Surf.Area= 3,904 sf Storage= 515 cf

Peak Elev= 1,743.65' @ 12.46 hrs Surf.Area= 5,513 sf Storage= 12,416 cf (11,901 cf above start)

Plug-Flow detention time= 801.2 min calculated for 0.536 af (98% of inflow) Center-of-Mass det. time= 770.0 min (1,606.2 - 836.2)

Volume	Inv	ert Avai	I.Storage	Storage	Storage Description					
#1	1,739.	00'	28,913 cf	Custom Stage Data (Irregular)Listed below (Recalc)						
Elevatio		Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)			
1,739.0	00	3,904	312.1	0.0	0	0	3,904			
1,740.5	50	3,904	312.1	40.0	2,342	2,342	4,372			
1,742.0	00	3,904	312.1	40.0	2,342	4,685	4,840			
1,744.0	00	5,890	349.8	100.0	9,726	14,411	6,933			
1,746.0	00	8,703	412.7	100.0	14,502	28,913	10,826			
Device #1	Routing Primary			et Device	s I Outlet Culvert					
#1	Filliary	1,730				haadwall Ka- 0 0	200			
	L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,738.00' / 1,736.00' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf									

3.000 in/hr Exfiltration over Surface area 24.0" Horiz. Orifice/Grate C= 0.600

1.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Limited to weir flow at low heads

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#5 Secondary 1,744.00' **4.0' long x 8.0' breadth Broad-Crested Rectangular Weir**

Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00

2.50 3.00 3.50 4.00 4.50 5.00 5.50

Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64

2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=1.31 cfs @ 12.46 hrs HW=1,743.65' (Free Discharge)

-1=Outlet Culvert (Passes 1.31 cfs of 25.75 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.12 cfs @ 9.93 fps)

3=Exfiltration (Passes 0.12 cfs of 0.38 cfs potential flow)

-4=Orifice/Grate (Weir Controls 1.19 cfs @ 1.27 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,739.33' (Free Discharge)

5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P3: Townhomes 1-2 Soil Filter

Inflow Area = 7.421 ac, 27.30% Impervious, Inflow Depth = 2.28" for 25-Year event

Inflow = 23.78 cfs @ 11.97 hrs, Volume= 1.411 af

Outflow = 1.67 cfs @ 13.01 hrs, Volume= 1.411 af, Atten= 93%, Lag= 62.4 min

Primary = 1.67 cfs @ 13.01 hrs, Volume= 1.411 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,751.33' Surf.Area= 5,240 sf Storage= 692 cf

Peak Elev= 1,757.99' @ 13.01 hrs Surf.Area= 9,714 sf Storage= 35,755 cf (35,063 cf above start)

Plug-Flow detention time= 1,004.3 min calculated for 1.395 af (99% of inflow)

Center-of-Mass det. time= 983.8 min (1,809.9 - 826.1)

#3

#4

#5

Device 2

Device 1

Secondary

Volume	Inve	<u>ert Avail</u>	.Storage	Storage	Description					
#1	1,751.0	00' 5	7,886 cf	Custom Stage Data (Irregular)Listed below (Recalc)						
Elevatio (fee		Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)			
1,751.0		5,240	336.6	0.0	Ó	0	5,240			
1,752.5	0	5,240	336.6	40.0	3,144	3,144	5,745			
1,754.0	0	5,240	336.6	40.0	3,144	6,288	6,250			
1,756.0	0	7,373	374.3	100.0	12,552	18,840	8,498			
1,758.0	0	9,731	412.0	100.0	17,050	35,890	10,984			
1,760.0	0	12,316	449.7	100.0	21,996	57,886	13,709			
Device	Routing	Inv	ert Outle	et Device	S					
#1	Primary	1,750.	00' 18.0	" Round	Outlet Culvert					
			L= 5	0.0' CPF	P, projecting, no he	eadwall, Ke= 0.900)			
			Inlet	/ Outlet I	nvert= 1,750.00' / 1	1,748.00' S= 0.04	00 '/' Cc= 0.900			
			n= 0	.013, Flo	w Area= 1.77 sf					
#2	Device 1	1,751.	33' 2.0"	Vert. Ori	fice/Grate C= 0.6	600 Limited to we	ir flow at low heads			

1,751.00' 3.000 in/hr Exfiltration over Surface area

1,757.50' **24.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

1,758.00' 4.0' long x 8.0' breadth Broad-Crested Rectangular Weir

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Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=1.67 cfs @ 13.01 hrs HW=1,757.99' (Free Discharge)

-1=Outlet Culvert (Passes 1.67 cfs of 18.07 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.27 cfs @ 12.34 fps)

3=Exfiltration (Passes 0.27 cfs of 0.67 cfs potential flow)

-4=Orifice/Grate (Orifice Controls 1.40 cfs @ 2.37 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,751.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond P4: Bottom Road A Soil Filter

Inflow Area = 2.357 ac, 32.63% Impervious, Inflow Depth = 2.58" for 25-Year event Inflow 7.28 cfs @ 11.97 hrs, Volume= 0.508 af 1.49 cfs @ 12.40 hrs, Volume= Outflow 0.508 af, Atten= 80%, Lag= 25.8 min 1.36 cfs @ 12.40 hrs, Volume= 0.505 af Primary Secondary = 0.12 cfs @ 12.40 hrs, Volume= 0.002 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,761.33' Surf.Area= 802 sf Storage= 106 cf

Peak Elev= 1,768.85' @ 12.40 hrs Surf.Area= 3,760 sf Storage= 11,445 cf (11,339 cf above start)

Plug-Flow detention time= 636.2 min calculated for 0.505 af (100% of inflow)

Center-of-Mass det. time= 628.0 min (1,445.5 - 817.5)

Volume	Invert	Avail	l.Storage	Storage D	Description				
#1	1,761.00'	,	16,287 cf	Custom 9	Stage Data (Irreg	ular) Listed below (Recalc)		
Elevatio		urf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)		
1,761.0		802	158.2	0.0	0	0	802		
1,762.5		802	158.2	40.0	481	481	1,039		
1,764.0	00	802	158.2	40.0	481	962	1,277		
1,766.0	00	1,864	195.9	100.0	2,592	3,555	2,396		
1,768.0	00	3,153	233.6	100.0	4,961	8,516	3,755		
1,770.0	00	4,668	271.3	100.0	7,772	16,287	5,351		
Device	Routing	Inv	vert Outle	et Devices					
#1	Primary	1,760			Outlet Culvert				
					. , .	eadwall, Ke= 0.90			
					•	,758.00' S= 0.020			
110	5	4 704				n interior, Flow Are			
#2	Device 1	1,761					flow at low heads		
#3	Device 2	1,761			filtration over Su				
#4	Device 1	1,768		4.0" Horiz. Orifice/Grate C= 0.600					
#5	Secondary	1,768		ted to weir flow at low heads Iong x 8.0' breadth Broad-Crested Rectangular Weir					

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Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=1.34 cfs @ 12.40 hrs HW=1,768.85' (Free Discharge)

1=Outlet Culvert (Passes 1.34 cfs of 33.46 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.16 cfs @ 13.15 fps)

3=Exfiltration (Passes 0.16 cfs of 0.26 cfs potential flow)

-4=Orifice/Grate (Weir Controls 1.17 cfs @ 1.26 fps)

Secondary OutFlow Max=0.10 cfs @ 12.40 hrs HW=1,768.85' (Free Discharge)
5=Broad-Crested Rectangular Weir (Weir Controls 0.10 cfs @ 0.53 fps)

Summary for Pond P5: Roads A and F Soil Filter

Inflow Area = 4.982 ac, 30.33% Impervious, Inflow Depth = 2.12" for 25-Year event Inflow = 13.96 cfs @ 11.97 hrs, Volume= 0.881 af

Outflow = 5.06 cfs @ 12.23 hrs, Volume= 0.881 af, Atten= 64%, Lag= 15.6 min Primary = 4.76 cfs @ 12.23 hrs, Volume= 0.878 af

Secondary = 0.29 cfs @ 12.23 hrs, Volume= 0.003 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,831.33' Surf.Area= 3,217 sf Storage= 425 cf

Peak Elev= 1,836.87' @ 12.23 hrs Surf.Area= 5,837 sf Storage= 16,663 cf (16,239 cf above start)

Plug-Flow detention time= 679.6 min calculated for 0.871 af (99% of inflow)

Center-of-Mass det. time= 663.0 min (1,495.5 - 832.5)

Volume	Invert	Avail.S	torage	Storage D	Description					
#1	1,831.00'	31	,588 cf	Custom 9	Custom Stage Data (Irregular)Listed below (Recalc)					
Elevatio (fee		rf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)			
1,831.0		3,217	222.2	0.0	0	0	3,217			
1,832.5		3,217	222.2	40.0	1,930	1,930	3,550			
1,834.0	0	3,217	222.2	40.0	1,930	3,860	3,884			
1,838.0	0	7,083	359.0	100.0	20,098	23,958	10,317			
1,839.0	0	8,190	378.0	100.0	7,630	31,588	11,490			
Device	Routing	Inve	rt Outle	et Devices						
#1	Primary	1,830.00		" Round						
						eadwall, Ke= 0.90				
					•	,828.00' S= 0.020				
						Flow Area= 3.14 st				
#2	Device 1	1,831.33					flow at low heads			
#3	Device 2	1,831.00	O' 3.00	0 in/hr Ext	filtration over Su	rface area				
#4	Device 1	1,836.50	o' 24.0	" Horiz. O	rifice/Grate C= 0	0.600				
			Limit	ted to weir	flow at low heads					
#5	Secondary	1,836.80		_		Crested Rectang 0 1.00 1.20 1.40				

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2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=4.69 cfs @ 12.23 hrs HW=1,836.87' (Free Discharge)

-1=Culvert (Passes 4.69 cfs of 28.92 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.14 cfs @ 11.27 fps)

3=Exfiltration (Passes 0.14 cfs of 0.41 cfs potential flow)

-4=Orifice/Grate (Weir Controls 4.55 cfs @ 1.98 fps)

Secondary OutFlow Max=0.25 cfs @ 12.23 hrs HW=1,836.87' (Free Discharge) **5=Broad-Crested Rectangular Weir** (Weir Controls 0.25 cfs @ 0.63 fps)

Summary for Pond P6: Lot R43 Soil Filter

Inflow Area = 1.084 ac, 37.36% Impervious, Inflow Depth = 2.64" for 25-Year event

Inflow 4.10 cfs @ 12.03 hrs, Volume= 0.238 af

Outflow 0.06 cfs @ 19.54 hrs, Volume= 0.238 af, Atten= 99%, Lag= 450.6 min =

0.06 cfs @ 19.54 hrs, Volume= Primary 0.238 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,823.33' Surf.Area= 2,234 sf Storage= 295 cf

Peak Elev= 1,827.80' @ 19.54 hrs Surf.Area= 3,929 sf Storage= 8,159 cf (7,864 cf above start)

Plug-Flow detention time= 1,618.6 min calculated for 0.231 af (97% of inflow)

Center-of-Mass det. time= 1,551.8 min (2,368.1 - 816.3)

Volume	Inv	ert Avai	il.Storage	Storage	Description				
#1	1,823.0	00'	8,962 cf	Custom	Stage Data (Irregi	ular) Listed below ((Recalc)		
Elevatio		Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)		
1,823.0	00	2,234	252.5	0.0	0	0	2,234		
1,824.5	50	2,234	252.5	40.0	1,340	1,340	2,613		
1,826.0	00	2,234	252.5	40.0	1,340	2,681	2,992		
1,828.0	00	4,145	312.6	100.0	6,281	8,962	5,753		
Device	Routing	In	vert Outle	et Device	S				
#1	Primary	1,823	3.00' 15.0	" Round	Outlet Culvert				
	•		L= 1	00.0' CF	PP, projecting, no he	eadwall, Ke= 0.90	00		
			Inlet	/ Outlet I	nvert= 1,823.00' / 1,	,822.00' S= 0.010	00 '/' Cc= 0.900		
			n= 0	.013, Flo	w Area= 1.23 sf				
#2	Device 1	I 1,823	3.33' 1.0"	Vert. Ori	fice/Grate C= 0.60	00 Limited to wei	ir flow at low heads		
#3	Device 2	2 1,823	3. 00' 3.00	0 in/hr E	xfiltration over Sui	rface area			
#4	Device 1	l 1,827	'.80' 24.0	24.0" Horiz. Orifice/Grate C= 0.600					
			Limi	ted to wei	ir flow at low heads				

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Primary OutFlow Max=0.06 cfs @ 19.54 hrs HW=1,827.80' (Free Discharge)

-1=Outlet Culvert (Passes 0.06 cfs of 9.53 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.06 cfs @ 10.13 fps) -3=Exfiltration (Passes 0.06 cfs of 0.27 cfs potential flow)

-4=Orifice/Grate (Weir Controls 0.00 cfs @ 0.10 fps)

Summary for Pond P7: Lot R42 Soil Filter

Inflow Area =	1.546 ac, 30.92% Impervious, Inflow D	epth = 2.37" for 25-Year event
Inflow =	4.71 cfs @ 12.07 hrs, Volume=	0.306 af
Outflow =	0.81 cfs @ 12.51 hrs, Volume=	0.306 af, Atten= 83%, Lag= 26.5 min
Primary =	0.81 cfs @ 12.51 hrs, Volume=	0.306 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume=	0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,878.33' Surf.Area= 1,972 sf Storage= 260 cf

Peak Elev= 1,882.90' @ 12.51 hrs Surf.Area= 3,109 sf Storage= 7,161 cf (6,901 cf above start)

Plug-Flow detention time= 776.4 min calculated for 0.300 af (98% of inflow)

Center-of-Mass det. time= 745.9 min (1,574.9 - 829.0)

Volume	Invert	Avail.St	orage	Storage D	escription		
#1	1,878.00'	26,0	005 cf	Custom S	Stage Data (Irregu	ılar) Listed below (F	Recalc)
Elevatio			Perim.	Voids	Inc.Store	Cum.Store	Wet.Area
(fee	<u>:t)</u>	(sq-ft)	(feet)	(%)	(cubic-feet)	(cubic-feet)	<u>(sq-ft)</u>
1,878.0	00	1,972	181.3	0.0	0	0	1,972
1,879.5	50	1,972	181.3	40.0	1,183	1,183	2,244
1,881.0	00	1,972	181.3	40.0	1,183	2,366	2,516
1,883.0	00	3,173	219.0	100.0	5,098	7,464	3,782
1,885.0	00	4,600	256.7	100.0	7,729	15,193	5,286
1,887.0	00	6,254	294.4	100.0	10,812	26,005	7,029
Device	Routing	Inver	t Outle	et Devices			
#1	Primary	1,878.00	' 24.0	" Round C	Outlet Culvert		
	-					eadwall, Ke= 0.900	
					-	876.00' S= 0.020	0 '/' Cc= 0.900
				,	Area= 3.14 sf		
#2	Device 1	1,878.33				00 Limited to weir	flow at low heads
#3	Device 2	1,878.00			iltration over Sur		
#4	Device 1	1,882.80	' 24.0	" Horiz. Or	rifice/Grate C= 0	.600	
			Limit	ted to weir t	flow at low heads		
#5	Secondary	1,883.00				Crested Rectangu	
						1.00 1.20 1.40	1.60 1.80 2.00
			2.50	3.00 3.50	4.00 4.50 5.00	5.50	
						2.69 2.68 2.68 2.	66 2.64 2.64
			2.64	2.65 2.65	2.66 2.66 2.68	2.70 2.74	

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Primary OutFlow Max=0.76 cfs @ 12.51 hrs HW=1,882.90' (Free Discharge)

-1=Outlet Culvert (Passes 0.76 cfs of 23.59 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.08 cfs @ 10.24 fps)

3=Exfiltration (Passes 0.08 cfs of 0.22 cfs potential flow)

-4=Orifice/Grate (Weir Controls 0.68 cfs @ 1.05 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,878.33' (Free Discharge) 5=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Summary for Pond P8: Lot R40 Soil Filter

Inflow Area = 1.823 ac, 26.66% Impervious, Inflow Depth = 2.29" for 25-Year event 5.72 cfs @ 12.05 hrs, Volume= Inflow 0.348 af Outflow = 1.33 cfs @ 12.35 hrs, Volume= 0.348 af, Atten= 77%, Lag= 18.1 min

1.33 cfs @ 12.35 hrs, Volume= Primary 0.348 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,924.33' Surf.Area= 2,235 sf Storage= 295 cf

Peak Elev= 1,928.76' @ 12.35 hrs Surf.Area= 3,579 sf Storage= 7,651 cf (7,356 cf above start)

Plug-Flow detention time= 924.4 min calculated for 0.341 af (98% of inflow)

Center-of-Mass det. time= 892.0 min (1,722.1 - 830.1)

Volume	Invert	Avail.	Storage	Storage	Description		
#1	1,924.00'	12	2,739 cf	Custom	Stage Data (Irregu	ılar) Listed below (F	Recalc)
Elevatio (fee		ırf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,924.0	0	2,235	198.8	0.0	0	0	2,235
1,925.5	0	2,235	198.8	40.0	1,341	1,341	2,533
1,927.0	0	2,235	198.8	40.0	1,341	2,682	2,831
1,928.0	0	2,859	217.6	100.0	2,541	5,223	3,488
1,929.0	0	3,828	326.8	100.0	3,332	8,554	8,227
1,930.0	0	4,552	295.9	100.0	4,185	12,739	9,789
Device	Routing	Inve	ert Outle	et Device	S		
#1	Primary	1,924.0			Outlet Culvert		
					PP, projecting, no he		
					nvert= 1,924.00' / 1,	922.00' S= 0.020	0 '/' Cc= 0.900
					w Area= 3.14 sf		
#2	Device 1	1,924.3			fice/Grate C= 0.60		flow at low heads
#3	Device 2	1,924.0			xfiltration over Sur		
#4	Device 1	1,928.6			Orifice/Grate C= 0	.600	
					r flow at low heads		
#5	Secondary	1,929.0			.0' breadth Broad-0		
					.20 0.40 0.60 0.80		1.60 1.80 2.00
			2.50	3.00 3.5	50 4.00 4.50 5.00	5.50	
			Coef	f. (English	n) 2.43 2.54 2.70 2	2.69 2.68 2.68 2.	.66 2.64 2.64

2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

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Primary OutFlow Max=1.32 cfs @ 12.35 hrs HW=1,928.76' (Free Discharge)

-1=Outlet Culvert (Passes 1.32 cfs of 23.14 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 0.05 cfs @ 10.08 fps)

3=Exfiltration (Passes 0.05 cfs of 0.25 cfs potential flow)

-4=Orifice/Grate (Weir Controls 1.26 cfs @ 1.29 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,924.33' (Free Discharge) 5=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Summary for Pond P9: Lot R51 Soil Filter

Inflow Area = 1.248 ac, 21.63% Impervious, Inflow Depth = 2.17" for 25-Year event Inflow 4.61 cfs @ 11.97 hrs, Volume= 0.226 af

Outflow = 0.97 cfs @ 12.17 hrs, Volume= 0.226 af, Atten= 79%, Lag= 11.6 min

0.97 cfs @ 12.17 hrs, Volume= Primary 0.226 af Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,941.33' Surf.Area= 1,440 sf Storage= 190 cf

Peak Elev= 1,945.62' @ 12.17 hrs Surf.Area= 2,379 sf Storage= 4,794 cf (4,604 cf above start)

Plug-Flow detention time= 694.1 min calculated for 0.222 af (98% of inflow)

Center-of-Mass det. time= 666.9 min (1,492.6 - 825.6)

Volume	Invert	Avail.S	Storage	Storage	Description		
#1 1,941.00'		22,064 cf		Custom Stage Data (Irregular)Listed below (Recalc)			
Elevatio (fee		ırf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,941.0	0	1,440	179.7	0.0	0	0	1,440
1,942.5	0	1,440	179.7	40.0	864	864	1,710
1,944.0	0	1,440	179.7	40.0	864	1,728	1,979
1,946.0	0	2,631	217.4	100.0	4,012	5,740	3,235
1,948.0	0	4,049	255.1	100.0	6,629	12,369	4,729
1,950.0	0	5,693	292.8	100.0	9,695	22,064	6,462
Device	Routing	Inve	rt Outle	et Device	S		
#1 Primary 1,940.00' 24.0" Round Outlet Culvert							
				100.0' CPP, projecting, no headwall, Ke= 0.900			
					nvert= 1,940.00' / 1,	,938.00' S= 0.020	0 '/' Cc= 0.900
				,	w Area= 3.14 sf		
#2	,			"Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads			
#3	Device 2 1,941.00' 3.000 in/hr Exfiltration over Surface area						
#4 Device 1 1,945.50'			24.0" Horiz. Orifice/Grate C= 0.600				
					ir flow at low heads		
#5							
				ead (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00			
					50 4.00 4.50 5.00		
			Coef	f. (Englisł	n) 2.43 2.54 2.70	2.69 2.68 2.68 2.	.66 2.64 2.64

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Primary OutFlow Max=0.89 cfs @ 12.17 hrs HW=1,945.62' (Free Discharge)

-1=Outlet Culvert (Passes 0.89 cfs of 25.66 cfs potential flow)
-2=Orifice/Grate (Orifice Controls 0.05 cfs @ 9.92 fps)

3=Exfiltration (Passes 0.05 cfs of 0.16 cfs potential flow)

-4=Orifice/Grate (Weir Controls 0.83 cfs @ 1.12 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,941.33' (Free Discharge) 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Link SP1:

Inflow Area = 327.994 ac, 5.46% Impervious, Inflow Depth > 1.88" for 25-Year event

Inflow = 320.25 cfs @ 12.47 hrs, Volume= 51.390 af

Primary = 320.25 cfs @ 12.47 hrs, Volume= 51.390 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP10:

Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP11:

Inflow Area = 6.579 ac, 3.57% Impervious, Inflow Depth = 2.05" for 25-Year event

Inflow = 19.42 cfs @ 12.02 hrs, Volume= 1.123 af

Primary = 19.42 cfs @ 12.02 hrs, Volume= 1.123 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP12:

Inflow Area = 20.993 ac, 12.16% Impervious, Inflow Depth = 2.04" for 25-Year event

Inflow = 37.51 cfs @ 12.13 hrs, Volume= 3.563 af

Primary = 37.51 cfs @ 12.13 hrs, Volume= 3.563 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP13:

Inflow Area = 12.275 ac, 33.70% Impervious, Inflow Depth > 2.46" for 25-Year event

Inflow = 12.09 cfs @ 12.19 hrs, Volume= 2.518 af

Primary = 12.09 cfs @ 12.19 hrs, Volume= 2.518 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP14:

Inflow Area = 1.238 ac, 3.31% Impervious, Inflow Depth = 2.05" for 25-Year event

Inflow = 3.15 cfs @ 12.09 hrs, Volume= 0.211 af

Primary = 3.15 cfs @ 12.09 hrs, Volume= 0.211 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP15:

Inflow Area = 27.913 ac, 22.52% Impervious, Inflow Depth = 2.16" for 25-Year event

Inflow = 29.86 cfs @ 12.12 hrs, Volume= 5.022 af

Primary = 29.86 cfs @ 12.12 hrs, Volume= 5.022 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP16:

Inflow Area = 1.173 ac, 3.15% Impervious, Inflow Depth = 1.82" for 25-Year event

Inflow = 2.60 cfs @ 12.09 hrs, Volume= 0.178 af

Primary = 2.60 cfs @ 12.09 hrs, Volume= 0.178 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP17:

Inflow Area = 4.548 ac, 20.07% Impervious, Inflow Depth = 2.02" for 25-Year event

Inflow = 5.20 cfs @ 11.94 hrs, Volume= 0.767 af

Primary = 5.20 cfs @ 11.94 hrs, Volume= 0.767 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP18:

Inflow Area = 0.186 ac, 11.29% Impervious, Inflow Depth = 2.13" for 25-Year event

Inflow = 0.74 cfs @ 11.95 hrs, Volume= 0.033 af

Primary = 0.74 cfs @ 11.95 hrs, Volume= 0.033 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP19:

Inflow Area = 0.648 ac, 3.70% Impervious, Inflow Depth = 1.89" for 25-Year event

Inflow = 1.77 cfs @ 12.04 hrs, Volume= 0.102 af

Primary = 1.77 cfs @ 12.04 hrs, Volume= 0.102 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP2:

Inflow Area = 1.275 ac, 5.49% Impervious, Inflow Depth = 2.05" for 25-Year event

Inflow = 2.69 cfs @ 12.16 hrs, Volume= 0.218 af

Primary = 2.69 cfs @ 12.16 hrs, Volume= 0.218 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP20:

Inflow Area = 50.264 ac, 9.71% Impervious, Inflow Depth = 1.83" for 25-Year event

Inflow = 47.79 cfs @ 12.38 hrs, Volume= 7.683 af

Primary = 47.79 cfs @ 12.38 hrs, Volume= 7.683 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP21:

Inflow Area = 7.874 ac, 25.98% Impervious, Inflow Depth = 2.27" for 25-Year event

Inflow = 1.77 cfs @ 12.98 hrs, Volume= 1.488 af

Primary = 1.77 cfs @ 12.98 hrs, Volume= 1.488 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP22:

Inflow Area = 0.328 ac, 7.62% Impervious, Inflow Depth = 2.13" for 25-Year event

Inflow = 1.00 cfs @ 12.04 hrs, Volume= 0.058 af

Primary = 1.00 cfs @ 12.04 hrs, Volume= 0.058 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP23:

Inflow Area = 2.727 ac, 29.63% Impervious, Inflow Depth = 2.53" for 25-Year event

Inflow = 1.65 cfs @ 12.40 hrs, Volume= 0.576 af

Primary = 1.65 cfs @ 12.40 hrs, Volume= 0.576 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP24:

Inflow Area = 13.779 ac, 3.95% Impervious, Inflow Depth = 2.05" for 25-Year event

Inflow = 31.67 cfs @ 12.12 hrs, Volume= 2.351 af

Primary = 31.67 cfs @ 12.12 hrs, Volume= 2.351 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP3:

Inflow Area = 4.241 ac, 25.14% Impervious, Inflow Depth = 2.48" for 25-Year event

Inflow = 1.63 cfs @ 12.80 hrs, Volume= 0.876 af

Primary = 1.63 cfs @ 12.80 hrs, Volume= 0.876 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP4:

Inflow Area = 62.647 ac, 2.01% Impervious, Inflow Depth = 1.90" for 25-Year event

Inflow = 75.21 cfs @ 12.10 hrs, Volume= 9.904 af

Primary = 75.21 cfs @ 12.10 hrs, Volume= 9.904 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP5:

Inflow Area = 2.355 ac, 0.51% Impervious, Inflow Depth = 1.97" for 25-Year event

Inflow = 4.27 cfs @ 12.21 hrs, Volume= 0.387 af

Primary = 4.27 cfs @ 12.21 hrs, Volume= 0.387 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP6:

Inflow Area = 75.057 ac, 9.07% Impervious, Inflow Depth = 1.95" for 25-Year event

Inflow = 106.30 cfs @ 12.15 hrs, Volume= 12.172 af

Primary = 106.30 cfs @ 12.15 hrs, Volume= 12.172 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP7:

Inflow Area = 0.872 ac, 6.42% Impervious, Inflow Depth = 2.05" for 25-Year event

Inflow = 2.45 cfs @ 12.05 hrs, Volume= 0.149 af

Primary = 2.45 cfs @ 12.05 hrs, Volume= 0.149 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Summary for Link SP8:

Inflow Area = 0.344 ac, 19.19% Impervious, Inflow Depth = 2.29" for 25-Year event

Inflow = 1.13 cfs @ 12.03 hrs, Volume= 0.066 af

Primary = 1.13 cfs @ 12.03 hrs, Volume= 0.066 af, Atten= 0%, Lag= 0.0 min

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Summary for Link SP9:

Inflow Area = 0.148 ac, 24.32% Impervious, Inflow Depth = 2.37" for 25-Year event

Inflow = 0.51 cfs @ 12.03 hrs, Volume= 0.029 af

Primary = 0.51 cfs @ 12.03 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min