

Appendix C – Drainage and Stormwater Management Report



407 TRANSITWAY – WEST OF BRANT STREET TO WEST OF HURONTARIO STREET
MINISTRY OF TRANSPORTATION - CENTRAL REGION

PARSONS

Drainage and Stormwater Management Report

**407 Transitway From West of Brant
Street to Hurontario Street**

GWP: 16-20003

Submitted to:

Ministry of Transportation Ontario

June 2020



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List of Acronyms

407 ETR	407 Express Toll Route
407 TWY	407 Transitway
CA	Conservation Authority
CH	Conservation Halton
CVC	Credit Valley Conservation
DS INV	Downstream Invert
ESC	Erosion and Sediment Control
EOTL	Edge of Travelled Lane
EPR	Environmental Planning Report
ES	Enhanced Swale
Exst	Existing
HSG	Hydrologic Soil Group
HWL	Head Water Level
IDF	Intensity-Duration-Frequency
MOECC	Ministry of the Environment and Climate Change
MNRF	Ministry of Natural Resources and Forestry
MTO	Ministry of Transportation Ontario
NOCSS	North Oakville Creek Subwatershed Study
NWL	Normal Water Level
Prop	Proposed
Reg WL	Regional Water Level
ROW	Right of Way
SWM	Stormwater Management
US INV	Upstream Invert

Executive Summary

Parsons has been retained by the Ministry of Transportation Ontario (MTO) to undertake the Planning Phase, Environmental Assessment (Transit Projects Assessment Process) and Preliminary Design for the proposed 407 Transitway 4 (407 TWY 4) from west of Brant Street in the City of Burlington to Hurontario Street in the City of Mississauga. The project is comprised of approximately 43.7 km of transit facility running along with 407 Express Toll Routes (ETR) as shown in **Figure E.1**.

The 407 TWY 4 traverses numerous tributaries within the jurisdiction of Conservation Halton (CH), including North Shore, Burlington Urban Creeks, Bronte Creek, Oakville West Urban Creeks, Sixteen Mile Creek and Oakville East Urban Creeks Watersheds and within Credit Valley Conservation (CVC), including Mullet Creek, Levi Creek, Credit River – Norval to Port, Fletcher’s Creek Watersheds. The total upstream watershed area is around 1400 km². The approximate drainage divide between conservation authorities (CA) is also illustrated in **Figure E.1**.

Numerous watercourses have been identified within the project limits, among which 37 watercourses are regulated by CH and CVC as shown in **Table E.1**. The proposed 407 TWY 4 is located immediately adjacent to 407 ETR, where the drainage condition is affected by the existing watercourse crossing structures. It is crucial to understand the impacts of proposed 407 TWY and develop a preliminary water crossing structure design and SWM plan to minimize the post-development impacts and safely manage the flow through existing crossings.

The objective of the Drainage and Hydrology Engineering component of the study is to achieve a comprehensive preliminary design of the proposed Transitway and associated stations (8 in total), and that it will minimize adverse impacts on downstream receivers in respect to water quality and quantity, flood risk, or potential erosion. The focus of this study is to analyze and characterize the site drainage associated with the proposed 407 TWY under existing and design conditions, and to develop stormwater management plans to minimize post-development impacts on the downstream receiving watercourses. The major tasks included in this project are as follows:

- Review all existing information including flood mapping studies and reports from previous watercourse crossing studies.
- Conduct field assessment of existing drainage features.
- Analyze and characterize pre-development and post-development site drainage to assess impacts of the proposed 407 TWY project.
- Develop SWM plan for the proposed development.
- Provide updated floodplain maps.
- Provide recommendations.

This report is intended to illustrate how the drainage system is affected by the proposed 407 TWY and to identify possible mitigation measures required to ensure the stormwater management criteria can be met. In addition, preliminary hydrologic and hydraulic models have been developed to calculate the storage requirements of SWM facilities to ensure Ministry of the Environment, Conservation and Parks (MECP) and CA quality and quantity control criteria are achieved for each site.

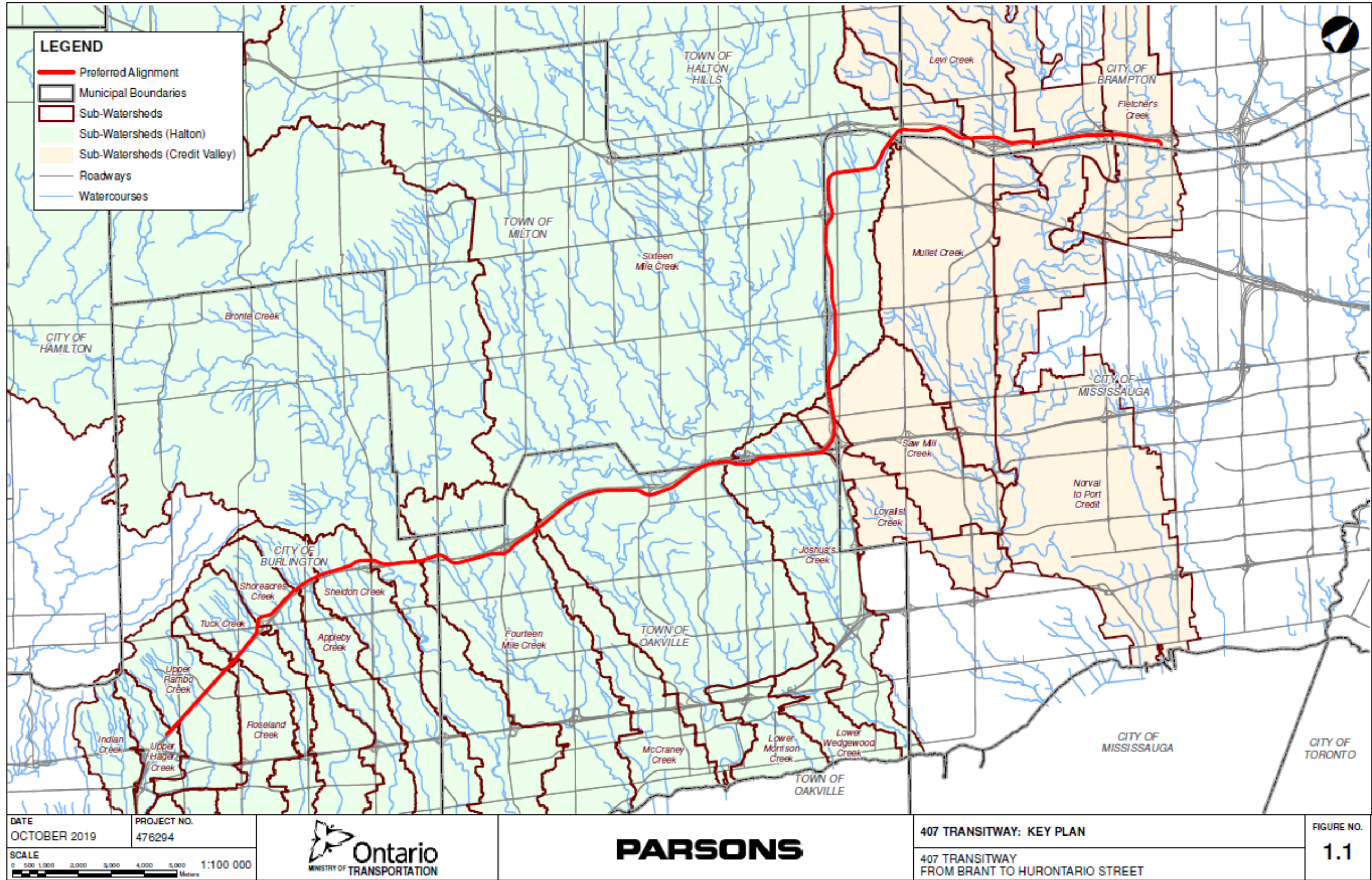


Figure E.1 Key Plan

PROPOSED TRANSITWAY DESIGN

The proposed Transitway includes a two-lane, fully grade separated transit facility running mainly on the north side of the 407 ETR from west of Brant Street to Tremaine Road and on the south side to the Hurontario Street. Along the TWY 4 corridor, 8 transit stations are proposed, which mainly consists of parking areas and bus bays.

The impacts to Drainage and Hydrology Engineering design related to the proposed TWY 4 include:

- Construction of additional culverts and bridges within the project limits
- Extension of one existing 407 ETR crossing structure
- Realignment of Headwater Drainage Features in Shoreacres Creek and Sheldon Creek Watersheds along the north side of the TWY 4 corridor
- Realignment of East Sixteen Mile Creek between 407 ETR and 9th Line
- Relocation of outfall structures for the existing drainage systems
- Implementation of appropriate SWM practices

HYDROLOGIC ANALYSIS

A hydrologic model was developed in Visual OTTHYMO 5 (V05) to quantify the design flows for watercourse crossings in Regional, 100-year and 50-year storm events. As the information on SWM facilities is not available in most watersheds, pre-development condition is assumed for all upstream catchments. 24 hour SCS Type II design storms are adapted in V05 modelling as it has been recommended for rural watershed runoff calculation. A summary of the computed flow for proposed crossings is given in **Table E.1**.

Table E.1 Peak Flows – Proposed Crossings

Crossing ID	Approx. Chainage	Watersheds	Design Flow	Drainage Area (ha)	Peak Flows (m ³ /s)			
					Check	Regional	100-Yr	50-Yr
Culverts								
BU05	17+100	Burlington Urban Creeks	50-year	126.8	9.60	12.00	7.38	6.63
BU06	17+450	Burlington Urban Creeks	100-year	103.8	8.10	9.98	6.23	5.59
BU07	17+850	Burlington Urban Creeks	50-year	57.3	9.27	7.15	7.13	6.41
BU08	18+450	Burlington Urban Creeks	100-year	217.0	18.34	21.51	14.11	12.68
BU09	18+800	Burlington Urban Creeks	50-year	61.5	5.82	6.34	4.47	4.03
BU10	19+200	Burlington Urban Creeks	50-year	85.5	11.90	10.08	9.16	8.24
BU11	19+900	Burlington Urban Creeks	50-year	56.4	5.33	5.84	4.10	3.69
BU12	20+350	Burlington Urban Creeks	Tunnel	48.5	5.62	5.36	4.32	3.89
OW01	22+520	Oakville West Urban Creeks	50-year	102.2	7.35	9.18	5.66	5.10
OW02	22+760	Oakville West Urban Creeks	50-year	22.1	3.68	2.77	2.83	2.55
OW03	23+310	Oakville West Urban Creeks	100-year	121.2	8.53	10.86	6.56	5.90
OW04	23+540	Oakville West Urban Creeks	50-year	10.9	1.41	1.27	1.09	0.97
OW05	23+780	Oakville West Urban Creeks	50-year	33.4	2.15	2.93	1.65	1.48
OW06	24+020	Oakville West Urban Creeks	50-year	40.9	5.80	4.88	4.46	4.00

Crossing ID	Approx. Chainage	Watersheds	Design Flow	Drainage Area (ha)	Peak Flows (m ³ /s)			
					Check	Regional	100-Yr	50-Yr
OW07	24+390	Oakville West Urban Creeks	50-year	170.3	17.23	17.99	13.25	11.94
OW08	24+660	Oakville West Urban Creeks	50-year	9.4	1.67	1.20	1.28	1.15
OW09	24+930	Oakville West Urban Creeks	100-year	67.3	6.68	7.00	5.14	4.65
OW10	25+250	Oakville West Urban Creeks	100-year	107.4	11.63	11.43	8.95	8.13
OW11	25+730	Oakville West Urban Creeks	50-year	37.7	6.22	4.70	4.79	4.32
S01	26+710	Sixteen Mile Creek	50-year	134.2	14.93	14.56	11.49	10.37
S03	31+850	Sixteen Mile Creek	50-year	64.7	12.34	8.46	9.50	8.57
OE02	33+800	Oakville East Urban Creeks	50-year	23.7	3.69	2.89	2.84	2.57
OE03	34+100	Oakville East Urban Creeks	50-year	10.3	2.80	1.45	2.15	1.95
OE04	34+330	Oakville East Urban Creeks	50-year	24.8	4.02	3.06	3.09	2.80
OE05	34+600	Oakville East Urban Creeks	50-year	36.9	4.83	4.19	3.72	3.37
OE06	35+200	Oakville East Urban Creeks	Tunnel	96.7	10.29	10.28	7.91	7.17
S-E01	38+790	Sixteen Mile Creek	50-year	75.0	5.60	8.09	4.31	2.84
S-E02	39+380	Sixteen Mile Creek	50-year	122.8	10.96	13.25	8.43	4.82
S-E04a	42+250	Sixteen Mile Creek	50-year	29.0	4.03	3.62	3.10	2.69
S-E07	44+000	Sixteen Mile Creek	50-year	332.0	23.35	35.38	17.96	14.98
NP02	52+450	Credit River	50-year	238.2	21.36	23.18	16.43	14.94
F01	53+950	Fletcher Creek	Tunnel	44.2	6.09	5.05	4.69	4.27
Bridges								
BR02	21+350	Bronte Creek	100-year	29979.6	225	898	173	137
S02	27+500	Sixteen Mile Creek	100-year	33251.7	389	1109	299	269
M01	49+100	Mullet Creek	100-year	559.8	52	45	40	35
L01	50+430	Levi Creek	100-year	2177.4	147	130	113	95
NP01	52+050	Credit River	100-year	68091.2	547	694	421	350
F03	54+860	Fletcher's Creek	100-year	3250.9	169	189	130	113
S-E03	40+300	Sixteen Mile Creek	100-year	1010.4	51.04	99.87	39.26	35.04
S-E04	42+000	Sixteen Mile Creek	100-year	387.0	23.42	38.96	18.02	15.05
S-E05	42+750	Sixteen Mile Creek	100-year	332.0	22.42	35.28	17.25	14.45
S-E06	43+000	Sixteen Mile Creek	100-year	332.0	23.35	35.38	17.96	14.98

HYDRAULIC ANALYSIS

A hydraulic assessment of culverts for existing and proposed conditions was completed using GeoHEC-RAS. Available hydraulic models on regulated watercourses were obtained from CAs and adapted for analysis. The results for existing and proposed conditions are summarized in **Table E.2**.

Table E.2 Water Crossings (Culverts/Bridges) Design Parameters and Structure Hydraulic Performance

Crossing ID	Approx. Chainage	Exst HWL				Prop TWY4 Structure							Prop HWL				Profile Elev. (m)	Embedded Inv. (m)	Meet MTO Criteria			
		Check	Regional	100yr	50yr	U/S	D/S	Length	Slope (%)	Rise	Span	Type	Check	Regional	100yr	50yr			Check Flow WL≤ Edge of Travelled Lane	HW/D≤1.5	Freeboard ≥1.0 m	Cover≥0.6m
BU05	17+100	-	-	-	-	160.80	160.31	25	1.96%	1800	4800	2-cell Conc. Box	161.85	162.05	161.63	161.55	165.388	160.50	Yes	Yes	Yes	Yes
BU06	17+450	163.67	163.69	163.63	163.63	163.25	162.72	25	2.12%	1800	6000	2-cell Conc. Box	164.27	164.40	164.10	164.04	166.453	162.95	Yes	Yes	Yes	Yes
BU07	17+850	164.28	164.25	164.25	164.20	162.60	162.00	30	2.00%	1800	2400	Concrete Box	164.61	164.29	164.28	164.17	167.603	162.30	Yes	Yes	Yes	Yes
BU08	18+450	164.83	164.89	164.73	164.70	164.00	163.77	30	0.77%	2400	6000	2-cell Conc. Box	165.59	165.77	165.34	165.25	167.575	163.70	Yes	Yes	Yes	Yes
BU09	18+800	165.89	165.92	165.82	165.79	165.30	165.08	18	1.22%	1500	3000	Concrete Box	166.59	166.66	166.37	166.29	167.689	165.00	Yes	Yes	Yes	Yes
BU10	19+200	164.09	163.72	163.57	163.48	161.50	161.19	20	1.55%	2400	3000	Concrete Box	164.31	163.88	163.70	163.53	167.855	161.20	Yes	Yes	Yes	Yes
BU11	19+900	162.67	163.10	161.91	161.79	160.80	160.20	20	3.00%	3500	4000	Concrete Box	162.76	163.19	161.96	161.84	166.810	160.50	Yes	Yes	Yes	Yes
BU12	20+350	165.28	165.26	165.21	165.19	Tunnel																
OW01	22+520	160.19	160.37	160.09	160.07	159.00	158.40	20	3.00%	1800	2400	Concrete Box	160.54	160.81	160.26	160.16	161.246	158.70	Yes	Yes	Yes	Yes
OW03	23+310	154.98	155.02	154.89	154.86	Overpass																
OW04	23+540	153.88	153.87	153.86	153.85	153.77	153.65	25	0.48%	1200	1800	Concrete Box	154.48	154.43	154.37	154.32	157.980	153.47	Yes	Yes	Yes	Yes
OW05	23+780	155.03	155.06	155.00	154.99	154.40	154.37	36	0.08%	1800		Circular	155.50	155.71	155.36	155.30	158.638	154.10	Yes	Yes	Yes	Yes
OW06	24+020	154.75	154.73	154.71	154.70	154.14	153.97	33	0.52%	1800		Circular	155.97	155.79	155.70	155.61	158.985	153.84	Yes	Yes	Yes	Yes
OW07	24+390	159.48	159.50	159.38	159.34	158.20	158.07	20	0.65%	2400	3000	Concrete Box	160.63	160.70	160.24	160.10	163.579	157.90	Yes	Yes	Yes	Yes
OW08	24+660	161.93	161.90	161.90	161.90	161.50	161.09	30	1.37%	1200	1800	Concrete Box	162.22	162.07	162.10	162.05	168.611	161.20	Yes	Yes	Yes	Yes
OW09	24+930	165.80	165.84	165.15	165.01	Overpass																
OW10	25+250	165.41	165.41	165.33	165.31	Overpass																
OW11	25+730	166.77	166.71	166.72	166.70	165.70	165.62	35	0.23%	1200	2400	Concrete Box	167.29	166.99	167.01	166.92	171.400	165.40	Yes	Yes	Yes	Yes
S01	26+710	167.06	167.06	167.01	166.99	166.10	166.00	25	0.40%	3000		Circular	168.55	168.55	168.21	168.09	170.414	165.80	Yes	Yes	Yes	Yes
S03	31+850	-	-	-	-	185	184.8	35	0.57%	3000		Circular	186.57	186.21	186.31	186.22	187.560	184.70	Yes	Yes	Yes	Yes
OE02	33+800	185.36	185.33	185.33	185.32	184.30	184.17	25	0.52%	1200	1800	Concrete Box	185.64	185.44	185.43	185.35	187.222	184.00	Yes	Yes	Yes	Yes
OE03	34+100	182.36	182.32	182.34	182.34	182.00	181.95	25	0.20%	1200	1800	Concrete Box	183.12	182.72	182.94	182.88	185.616	181.70	Yes	Yes	Yes	Yes
OE04	34+330	181.83	181.80	181.80	181.78	181.10	181.04	30	0.20%	1200	2400	Concrete Box	182.27	182.07	182.07	182.01	184.765	180.80	Yes	Yes	Yes	Yes
OE05	34+600	181.03	181.02	181.00	181.01	180.20	180.11	30	0.30%	1200	2400	Concrete Box	181.52	181.40	181.31	181.23	182.750	179.90	Yes	Yes	Yes	Yes
OE06	35+200	179.04	179.12	178.95	178.92	Tunnel																
S-E01	38+790	-	-	-	-	186.23	186.17	25	0.24%	3500	4000	Concrete Box	189.57	189.98	189.25	188.88	190.940	185.93	Yes	Yes	Yes	Yes
S-E02	39+380	-	-	-	-	186.61	186.61	25	0.00%	3500	4000	Concrete Box	189.71	190.15	189.33	188.90	195.361	186.31	Yes	Yes	Yes	Yes
S-E04a	42+250	-	-	-	-	193.89	193.50	30	1.29%	2000	3700	Concrete Box	194.91	194.93	195.05	194.99	197.301	193.59	Yes	Yes	Yes	Yes
S-E07	44+000	202.58	202.47	202.48	202.27	201.51	201.27	50	0.48%	1200	4800	2-cell Conc. Box	203.84	203.10	203.23	202.53	204.290	201.21	Yes	Yes	Yes	Yes
NP02	52+450	170.43	170.45	170.37	170.34	169.50	169.06	20	2.20%	3000	4000	Concrete Box	172.04	172.18	171.63	171.50	177.601	169.20	Yes	Yes	Yes	Yes

As shown in **Table E.2**, all crossings meet the MTO’s hydraulic criteria. The hydraulic criteria needs to be checked when crossfall grading is designed for the TWY4 corridor. 2 creek realignments including BU05 and OW02 are considered to relocate the culvert crossing to low point of subwatershed, and resolve conflicts between crossing and road design.

The head water level increases no more than 0.3 m within the TWY 4 ROW for majority of the proposed cross structures during regional storm. Crossing OW05, OW06, OW07, S01, and NP02 are located immediately downstream of 407 ETR, where the increase in head water level does not affect hydraulic capacity of 407 ETR structures. Therefore, it is safe to conclude the hydraulic design of TWY 4 minimizes impacts to upstream and downstream systems.

Open ditching is proposed along both sides of TWY 4 as Major System to accommodate surface runoff when capacity of Minor System is exceeded. Notably, 4 large storm trunks are proposed upstream of N01, BU02, BU04, and OW02. Storm trunks upstream of N01, BU02, and BU04 are running from the road low point to adjacent storm trunk crossings to provide gravity outlets for the depressed roadway. Storm trunk upstream of OW02 diverts external runoff upstream of TWY 4 corridor and provides a gravity outlet for the depressed roadway. **Table E.3**.lists the results of storm trunk capacity evaluation.

CORRIDOR DRAINAGE

Open ditching is proposed along both sides of TWY 4 as Major System to accommodate surface runoff when capacity of Minor System is exceeded. Notably, 4 large storm trunks are proposed upstream of N01, BU02, BU04, and OW02. Storm trunks upstream of N01, BU02, and BU04 are running from the road low point to adjacent storm trunk crossings to provide gravity outlets for the depressed roadway. Storm trunk upstream of OW02 diverts external runoff upstream of TWY 4 corridor and provides a gravity outlet for the depressed roadway. **Table E.3**.lists the results of storm trunk capacity evaluation.

Table E.3 Results of Underground Storm Pipe Capacity Analysis

Outlet Location	Drainage Area (ha)	Invert Elevation U/S Node (m)	Invert Elevation D/S Node (m)	Pipe Length (m)	Slope (%)	Pipe Roughness (Manning's n)	Pipe Diameter (m)	Pipe Capacity (m ³ /s)	1 in 100-year Flow Rate (m ³ /s)
N01	6.858	116.200	115.00	541	0.22%	0.013	1200	1.84	1.17
BU02	2.449	155.902	153.45	145	1.69%	0.013	750	1.45	0.62
BU04	5.594	154.380	152.96	250	0.57%	0.013	750	0.84	0.07
OW02	3.604	155.400	155.00	350	0.11%	0.013	1650	3.08	3.35

STORMWATER MANAGEMENT

The stormwater management strategy proposed for the 407 TWY corridor is to implement enhanced swales. The strategy is proposed in previous 407 TWY studies and is an accepted mitigation solution. The stormwater management for transit stations was achieved by a combination of wet ponds and Low Impact Development (LID) features.

407 Transitway Corridor

The proposed SWM plan for TWY 4 corridor utilizes enhanced swales at locations where feasible to provide quality and quantify control to runoff. The total increase in pavement area associated with the proposed Transitway development is approximately 42 ha. For all subcatchments less than 5 ha, a treatment train approach instead of wet ponds was proposed. The design consists of grassed embankments to promote sheet flow, grassed swales on both sides of the 407 TWY and enhanced grassed swales/dry ponds located before each outlet from the 407 TWY.

407 Transit Stations

8 transit stations are proposed along the 407 TWY 4 including Dundas St., Appleby Ln, Bronte Rd, Trafalgar Rd, Britannia Rd, Derry Rd, Lisgar, and Mississauga Rd. The station layouts include vehicular and pedestrian access, PPUDO facilities, bus lay bay facilities, on-street integration with local transit, shelters, buildings, and other amenities. Majority of the transit stations are controlled by wet ponds to achieve SWM objectives as the imperviousness is relatively high. Dry ponds are designed for Lisgar, Appleby Ln and Bronte Rd Stations as the drainage area is too small to sustain the permeant pool volume.

Goals and objectives arising from subwatershed studies and source water protection plans also apply to the design of transit stations. **Table E.4** lists the applicable subwatershed studies and proposed SWM types for each station.

Table E.4 Applicable Subwatershed Studies and Design Assumptions

TWY 4 Stations	Guiding Documents	Design Storm Distribution	IDF Ref.	SWM Type
Mississauga Rd	CVC SWM Design Criteria	12 Hour SCS Type II	City of Mississauga	Wet Pond
Lisgar	9th Line Subwatershed Study	12 Hour SCS Type II	City of Mississauga	Dry Swale
Derry Rd	9th Line Subwatershed Study	12 Hour SCS Type II	City of Mississauga	Wet Pond
Britannia Rd	9th Line Subwatershed Study	12 Hour SCS Type II	City of Mississauga	Wet Pond
Trafalgar Rd	North Oakville Creek Subwatershed Study	24 Hour Chicago	Town of Oakville	Wet Pond
Bronte Rd	North Oakville Creek Subwatershed Study	24 Hour Chicago	Town of Oakville	Dry Pond
Appleby Ln	City of Burlington	24 Hour SCS Type II	City of Burlington	Dry Pond
Dundas St	City of Burlington	24 Hour SCS Type II	City of Burlington	Wet Pond

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1. Introduction

Parsons has been retained by the Ministry of Transportation Ontario (MTO) to undertake the Planning Phase, Environmental Assessment (Transit Projects Assessment Process) and Preliminary Design for the proposed 407 Transitway 4 (407 TWY 4) from west of Brant Street in the City of Burlington to Hurontario Street in the City of Mississauga. The project is comprised of approximately 43.7 km of transit facility running along with 407 Express Toll Routes (ETR) as shown in **Figure 1.1**.

1.1 PROJECT DESCRIPTION

The proposed 407 TWY 4 is a two-lane, fully grade separated transit facility on an exclusive right-of-way (ROW), running mainly on the north side of the 407 ETR Corridor. The study follows the Transit Project Assessment Process (TPAP) prescribed in Ontario Regulation 231/08, Transit Projects and Metrolinx Undertakings under the Environmental Assessment Act. This includes submission of the Environmental Project Report (EPR), which summarizes the results of the planning stage. As part of the EPR, a Drainage and Stormwater Management (SWM) study was prepared to address any potential stormwater runoff impacts resulting from the proposed road improvement plans.

The total alignment length of this segment (refer to **Figure 1.1**) of 407 TWY is approximately 43.7 km. 8 stations are proposed along the study limits at the following locations: Dundas St., Appleby Ln., Bronte Rd., Trafalgar Rd., Britannia Rd., Derry Rd., Lisgar, and Mississauga Rd. The station layouts include vehicular and pedestrian access, park and ride and pick-up/drop off (PPUDO) facilities, bus lay bay facilities, on-street integration with local transit, shelters, buildings, and other amenities.

1.2 PROJECT BACKGROUND

The 407 TWY 4 traverses numerous tributaries within the jurisdiction of Conservation Halton (CH), including North Shore, Burlington Urban Creeks, Bronte Creek, Oakville West Urban Creeks, Sixteen Mile Creek and Oakville East Urban Creeks Watersheds and within Credit Valley Conservation (CVC), including Mullet Creek, Levi Creek, Credit River – Norval to Port, Fletcher’s Creek Watersheds. The total upstream watershed area is around 1400 km². The approximate drainage divide between conservation authorities (CA) is also illustrated in **Figure 1.1**.

Numerous watercourses have been identified within the project limits, among which 37 watercourses are regulated by CH and CVC as shown in **Figure 1.1**. The proposed 407 TWY 4 is located immediately adjacent to 407 ETR, where the drainage condition is affected by the existing watercourse crossing structures. It is crucial to understand the impacts of proposed 407 TWY and develop a preliminary water crossing structure design and SWM plan to minimize the post-development impacts and safely manage the flow through existing crossings.

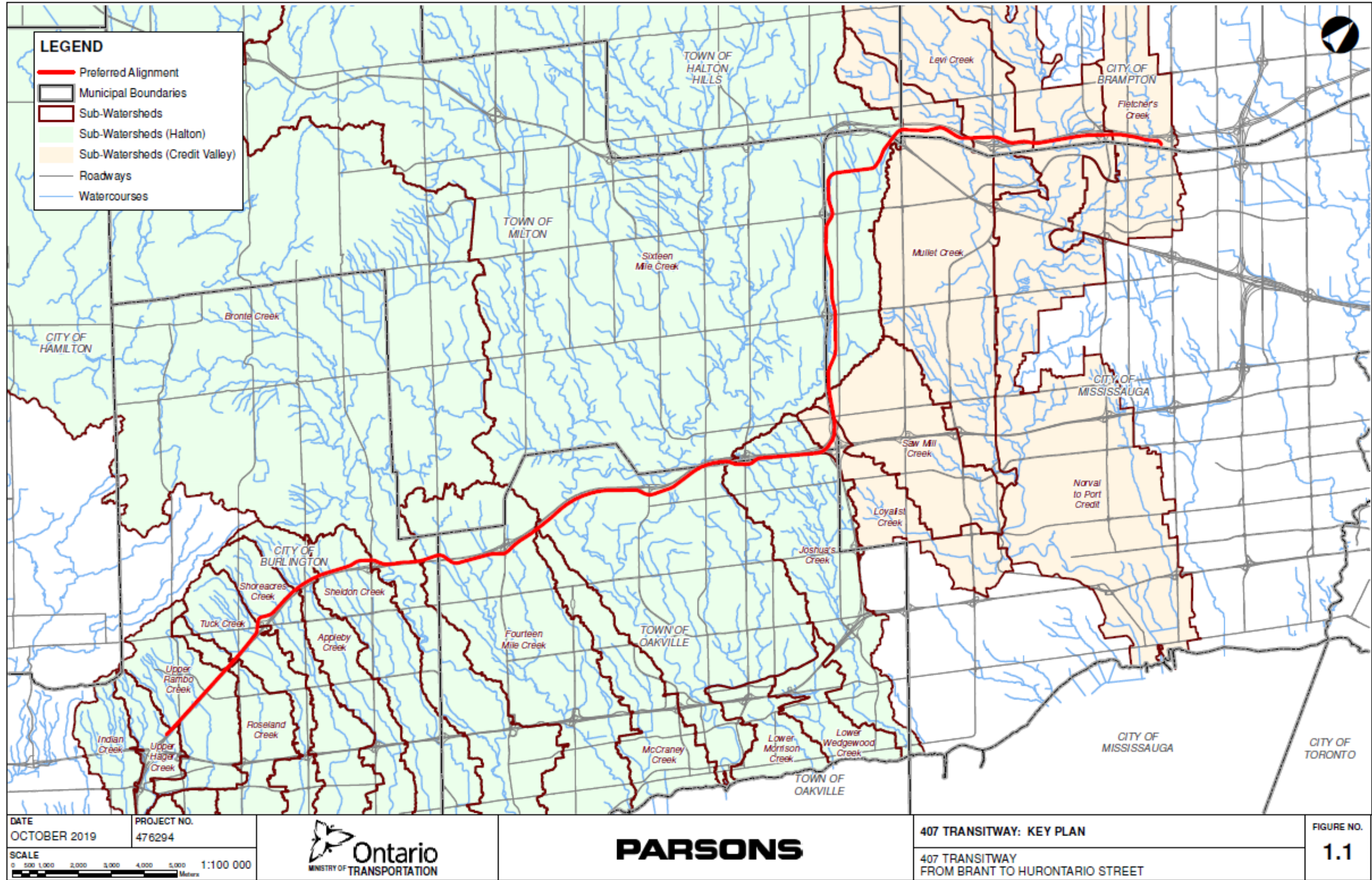


Figure 1.1 Key Plan

1.3 OBJECTIVES

The objective of the Drainage and Hydrology Engineering component of the study is to achieve a comprehensive preliminary design of the proposed Transitway and associated stations (8 in total), and that it will minimize adverse impacts on downstream receivers in respect to water quality and quantity, flood risk, or potential erosion. The focus of this study is to analyze and characterize the site drainage associated with the proposed 407 TWY under existing and design conditions, and to develop stormwater management plans to minimize post-development impacts on the downstream receiving watercourses. The major tasks included in this project are as follows:

- Review all existing information including flood mapping studies and reports from previous watercourse crossing studies.
- Conduct field assessment of existing drainage features.
- Analyze and characterize pre-development and post-development site drainage to assess impacts of the proposed 407 TWY project.
- Develop SWM plan for the proposed development.
- Provide updated floodplain maps.
- Provide recommendations.

This report is intended to illustrate how the drainage system is affected by the proposed 407 TWY and to identify possible mitigation measures required to ensure the stormwater management criteria can be met. In addition, preliminary hydrologic and hydraulic models have been developed to calculate the storage requirements of SWM facilities to ensure Ministry of the Environment, Conservation and Parks (MECP) and CA quality and quantity control criteria are achieved for each site.

1.4 BACKGROUND INFORMATION AND GUIDING DOCUMENTS

Drainage information used in the study was obtained from several sources, including:

References and Guiding Documents:

- Highway Drainage Design Standards (HDDS), Ministry of Transportation, January 2008
- Drainage Management Manual (DMM), Ministry of Transportation, October 1997
- Gravity Pipe Design Guidelines, Ministry of Transportation, May 2007
- Environmental Reference for Highway Design, Ministry of Transportation, June 2013
- Environmental Guide for Erosion and Sediment Control during Construction of Highway Projects, Ministry of Transportation, September 2015
- MTO Stormwater Management Requirements for Land Development Proposals, March 1999
- Stormwater Management Planning and Design Manual, Ministry of the Environment, March 2003

- AMEC Foster Wheeler 2015. Ninth Line Lands Scoped Subwatershed Study Phase 2: Impact Assessment and Management Strategy.
- AMEC Foster Wheeler 2016. Highway 407 Transitway Corridor Assessment within the Ninth Line Lands
- Town of Oakville 2006. North Oakville Creeks Subwatershed Study (NOCSS)
- Philips Engineering Ltd. 2007. Rambo Creek Erosion Control/Stream Restoration Final Draft Class Environmental Assessment
- Aquafor Beech Ltd. 2012. Tuck Creek Erosion Control Municipal Class Environmental Assessment
- Totten Sims Hubicki Associates Ltd. 2009. Shoreacres Creek Erosion Control and Stream Restoration: New Street to Lake Ontario Class Environmental Assessment
- EWRC 1997. Appleby Creek Floodline Update
- Updated Sheldon Creek Subwatershed Master Plan
- The Proctor & Redfern Group 1986. Bronte Creek Flood Risk Mapping
- The Proctor & Redfern Group 1988. Floodline Mapping Study of the Sixteen Mile Creek
- Gartner Lee Limited & Cosburn Patterson Mather 1999. Gateway West Subwatershed Study
- Hydraulic models of Upper Rambo Creek, Tuck Creek, Shoreacres Creek, Appleby Creek, Sheldon Creek, Bronte Creek, Fourteen Mile Creek, Sixteen Mile Creek, and Joshua Creek watersheds, Conservation Halton.
- Hydraulic models of Mullet Creek, Credit River Norval to Port, Fletcher’s Creek, and Levi’s Creek, Credit Valley Conservation

Mapping and Data:

- Ontario Ministry of Natural Resources and Forestry, Ontario Flow Assessment Tool (OFAT), <http://www.gisapplication.lrc.gov.on.ca/OFAT/Index.html?site=OFAT&viewer=OFAT&locale=en-US> (April 8, 2019);
- Soil Survey Complex, Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA), November 20, 2015 <https://www.javacoeapp.lrc.gov.on.ca/geonetwork/srv/en/main.home?uuid=86302406-ddff-4505-b3af-39c293a6702a> (January 18, 2018);
- Ontario Land Cover Compilation v2.0, Ministry of Ontario Natural Resources and Forestry, January 21, 2016 <https://www.javacoeapp.lrc.gov.on.ca/geonetwork/srv/en/main.home?uuid=a063a640-2704-47c8-b337-9ff19643edb4> (April 8, 2019),
- Environment Canada, Water Survey of Canada, Hydrometric Data, https://wateroffice.ec.gc.ca/search/historical_e.html;
- Ontario Integrated Hydrology Data, Ministry of Natural Resources and Forestry, October 17, 2012 <https://www.javacoeapp.lrc.gov.on.ca/geonetwork/srv/en/main.home?uuid=5383ed26-4a12-4026-b624-65c2e431c861> (April 8, 2019);
- Conservation Halton GIS Data and Open Data, Conservation Halton.
- Aerial Survey within 407 ETR corridor, JD Barnes, 2017
- 407 ETR Record Drawings, 407 ETR office

2 Natural Environment Characterization

This section includes a documentation of the natural environment within the project limits and its upstream watersheds. Hydrologic conditions such as soil and land use conditions, precipitation, ecological constraints and other environmental considerations to be taken into considerations for the drainage, hydrology and SWM assessments are discussed.

2.1 WATERSHED CHARACTERISTICS

The drainage pattern crossing the project site is generally from north to south through a variety of land use types ranging from dense commercial/industrial areas to undeveloped open spaces. Maps of soil survey and land cover for the upstream study area are provided in **Appendix B**. The project site is surrounded predominantly by commercial, industrial and residential complex, while remaining undeveloped areas are subject to future development.

2.1.1 Watershed Details

The general topography of the watersheds within the 407 TWY 4 study area is from north to south with an average slope of 4.2%. The smooth, gently sloping nature of the topography creates low internal drainage. Most sections along the proposed 407 TWY corridor fall into the Hydrologic Soil Group (HSG) C and D classification, as shown in **Figure B.1**. These soil groups have the highest runoff potential.

The predominant soil type within the study area is clay loam, with some variability across watersheds. Sandy loam and silt loam are present in Burlington Urban Creeks and Bronte Creek watersheds, indicating high to moderate infiltration capacity. Clay is scattered through Fourteen Mile Creek and Sixteen Mile Creek watersheds, indicating low infiltration capacity and high runoff potential.

The land use within the proposed 407 TWY 4 corridor varies from high density commercial/industrial areas to large swaths of open spaces as shown in **Figure B.2**. The area upstream of 407 TWY 4 is mostly undeveloped, except for subwatersheds at the west end, where urban residential areas are present. Urban developments are also present in 9th Line area and subwatersheds under the jurisdiction of CVC at the east end of the TWY 4.

2.1.2 Streamflow Statistics

Flow monitoring stations were found on several major creeks upstream and downstream of the project sites. Streamflow data from these stations was used to estimate the 100-year peak flow rates generated within the watershed based on statistical analysis. **Figure B.3** shows the locations of flow monitoring stations together with the study watershed area. The 100-year peak flow from selected stations are listed in **Table 2.1**.

Table 2.1 Results of Single Station Frequency Analysis

Station ID	Watershed	Drainage Area (km ²)	100-yr Peak Flow (m ³ /s)	Years of Records
02HB011	Bronte Creek	242	34.1	34
02HB027	Fourteen Mile Creek	24.5	41.6	14
02HB004	Sixteen Mile Creek	193	149	48
02HB005	Sixteen Mile Creek	101	40.7	57
02HB008	Credit River	131	32.8	53
02HB025	Credit River	645	115	23
02HB029	Credit River	774	132	9

2.2 PRECIPITATION

The rainfall information was obtained from MTO Intensity-Duration-Frequency (IDF) Curve Lookup as shown in **Table 2.2**. To incorporate climate change effects, the 2094 MTO IDF curve was used to develop design storms for the crossing design. The large regional watersheds were analyzed with SCS Type II 24-hour design storm, as the area largely consists of undeveloped land with low impervious ratio. SCS Type II 24-hour design storm is well suited for rural and undeveloped catchments. Hurricane Hazel was identified to be the Regional Storm for areas under the jurisdiction of CH and CVC. The hyetograph is also shown in **Appendix B**.

Table 2.2 MTO IDF Curves (2094)

Duration	Rainfall Intensity (mm/hr)								
	5-min	10-min	15-min	30-min	1-hr	2-hr	6-hr	12-hr	24-hr
2-yr	132.9	82.7	62.6	39	24.3	15.2	7.3	4.6	2.9
5-yr	172.7	107.1	81.1	50.4	31.3	19.5	9.3	5.8	3.6
10-yr	198.8	123.2	93.2	57.8	35.9	22.4	10.6	6.6	4.1
25-yr	231.8	143.5	108.5	67.3	41.7	25.9	12.2	7.6	4.8
50-yr	256.2	158.6	119.8	74.2	46	28.6	13.5	8.4	5.2
100-yr	280.6	173.6	131.1	81.2	50.3	31.2	14.7	9.1	5.7

IDF curves obtained from City of Mississauga, Town of Oakville and City of Burlington are also incorporated in developing the SWM plan for transit stations. Design storm distribution was selected as per engineering guidelines from corresponding municipalities.

2.3 ECOLOGY

2.3.1 Fish and Fish Habitat

LGL limited (LGL) conducted review of secondary source information and field investigations to understand the existing aquatic habitat condition within the study area, as well as species at risk, sensitivity and potential enhancement/

compensation opportunities. The study concludes that all the proposed structure/culvert crossings support fish or fish habitat either directly or indirectly. The watercourses within the study area support a mix of warmwater, coolwater and coldwater fish communities. Species at risk are present on Bronte Creek, Sixteen Mile Creek, and Fletcher's Creek crossings. The impacts need to be mitigated in design and construction.

2.3.2 Vegetation Communities

In general, the majority of proposed Transitway follows a strip of vacant/cultivated land along the 407 ETR corridor. There are a few small remnant wooded areas located along the proposed Transitway. The most significant wooded areas are located in the valley land area associated with Fletchers Creek.

2.4 SOURCE WATER PROTECTION

The 407 Transitway corridor would be in the Halton-Hamilton and the CTC Source Protection Regions and is therefore subject to the Halton-Hamilton and CTC Source Protection Plans.

3 Existing Condition

An overall review has been conducted to understand the existing drainage condition of project site and the upstream watersheds hydrology. Majority of the crossing sites are immediately adjacent to the existing 407 ETR corridor. Watercourse crossing structures to manage water flows are present within the 407 ETR ROW. The existing crossing structures has defined centrelines and hydraulic condition for most watercourses within the project limits. Field investigations were carried out in 2018 and 2019 to document conditions of existing 407 ETR crossing structures, stream channels and surrounding environment. The field notes, summary of findings and site pictures are included in **Appendix C**.

The project site traverses several main watersheds under the jurisdictions of CH and CVC. The watercourse streamline, watershed boundaries, and watercourse IDs along the project site, together with conservation authority divide are shown in **Figure A.1** to **Figure A.4**. A list of watercourses is identified in **Table 3.1**. As a summary, there are 54 watercourses that need to be accommodated within the project limits. 30 are mapped regulated watercourses of which current hydraulic models characterizing headwater and tailwater conditions have been provided as noted in **Table 3.1**. Thermal and Fish habitat conditions are also noted to set out design basis.

Drainage areas are delineated based on the crossing locations along the 407 ETR corridor to quantify the peak runoff rate to existing crossing structures. Majority of the areas are bounded by the 407 ETR corridor to the downstream side. Several SWM ponds have been constructed during the development of 407 ETR managing and controlling the peak runoff from the existing highway. Crossing structures downstream of the SWM pond outlets are also identified, while majority of these crossings are not associated with creek subwatersheds.

3.1 EXISTING SITE CONDITION

The Project area has very distinct physiographic regions that will require different drainage and stormwater management strategies to minimize any potential impacts. 8 regions have been identified to illustrate how the preliminary design objectives can be met. These regions (as identified below) have been defined by the regional or municipal roads closest to those physiographic areas proceeding from the Brant Street to Hurontario Street.

Brant Street to Gulph Line: North/South

This segment is the most constrained area within the project limits. A narrow highway corridor fringed by residential developments to both the east and the west leads to a competition for land use. There is an existing storm trunk running along the west side of 407 ETR corridor from south of Gulph Line to North Service Road diverting excessive flow from Rambo Creek and providing drainage outlet to the upstream residential stormwater drainage system. This storm trunk is interconnected with many storm trunk adjacent to the corridor while servicing the 407 ETR Right-of-Way area through catchbasins in the road ditch. The opportunity for storage facilities in this area is limited and flooding risk is high due to surcharged underground pipes and low highway road surface grades.

Gulph Line to Appleby Line: North/South

This area is characterized by the escarpment to the northwest and residential development to the south. There are number of creeks in this area; namely, Sheldon Creek, Appleby Creek and Tuck Creek. 9 major watercourses need to be analyzed for potential impacts, of which 3 watercourses within Tuck Creek tributary are underground pipes connecting to storm trunk. There are also 3 existing stormwater management facilities located in the area, with the potential for retrofitting these facilities in combination with LIDs will be considered. Given that the corridor is generally wide, several different stormwater management strategies and practices can be explored for this area, in addition to the use of LIDs.

Appleby Line to Bronte Road (Regional Road 25): Northeast/Southwest

This area is characterized by agricultural lands and woodlots on both sides of the corridor. The topography is generally flat, except where the highway enters the Bronte Creek valley system. There are two existing SWM facilities and approximately 12 watercourses that convey flows from north to south that will need to be evaluated as part of the study for extension or adverse impacts associated with the transitway. The main watercourse is the Bronte Creek where the river valley is well defined and sufficient floodplain storage is available.

Bronte Road (Regional Road 25) to Sixth Line: North/South

This area is characterized by the Sixteen Mile Creek valley that runs parallel (northwest) of the corridor and agricultural lands to the southeast, with very little development on either side of the existing 407 ETR. Drainage is generally southwesterly along the 407 ETR to the Sixteen Mile Creek bridge crossing. 5 stormwater management ponds are located within this segment to provide flow control for the 407 ETR runoff

Sixth Line to Highway 403: Northeast/Southwest

This area mainly consists of agricultural lands and relatively few woodlots. The project site is located within the small headwater tributaries of Joshua's and Morrison Creeks. Drainage in this area is generally along the existing 407 ETR corridor conveyed in grass-lined ditches to 6 existing water crossings and 3 ponds within the 407 Corridor.

Highway 403 to Highway 401: Northwest/Southeast

This segment is aligned northwest to southeast, with agricultural lands to the west and residential development to the east. Drainage generally flows southeasterly in 407 ETR drainage channel on the east site of highway towards the Sixteen Mile Creek tributary crossing. There are 4 existing ponds and 4 watercourse crossings within the project limits. Starting just north of Britannia Road and extending 1.5 kilometers, three tributaries of the Sixteen Mile Creek flank the corridor and could potentially present the biggest challenge to the transitway alignment in this area. There are a number of drains from the City of Mississauga connecting to the watercourse along the northeast side of the corridor, west of Ninth Line, which feed into the online storage area. An existing floodplain hydraulic assessment has been done to evaluate the impacts of future growth and development of 9th Line Lands and TWY 4 alignment options in 2017.

Highway 401 to Hurontario Street: Northeast/Southwest

This segment is characterized by a relatively flat topography, with agricultural lands to the north and development to the south, including the 401 Corridor which runs parallel to the mainline. There are four existing stormwater management

ponds—three of which are sandwiched between the two highways—that present retrofit opportunities given the available buffer space. The feasibility to use these ponds will depend on the Preferred Alignment for the transitway and the ability to direct its drainage to these facilities. There are four major culvert crossings in this segment on tributaries to the Sixteen Mile Creek that flow southeasterly across the alignment. These water crossings will need to be evaluated, along with the need for extensions and any potential adverse impacts due to the transitway. The option of utilizing these existing drainage facilities will be explored in conjunction with the use of LIDs and Enhanced grassed swales to supplement existing measures.

3.2 407 ETR CROSSINGS

Given the proximity of the project site to the existing 407 ETR, the existing hydraulic condition of watercourse crossings affects the design of proposed TWY4. A desktop review of the existing crossing structures was completed based on record drawings obtained from 407 ETR office. Key information such as upstream and downstream invert elevations, structure sizes and materials are extracted and summarized in **Table 3.1** to better characterize the existing site condition. Some 407 ETR crossings around the 9th Line and 407/401 Interchange area are more than 200 m away from the 407 TWY 4 project limits and are not expected to affect the proposed TWY 4. Therefore, they are not included in the Table.

Majority of the crossings are located on regulated watercourses. Floodplain has been delineated on some regulated watercourses around the project site as noted in the **Table 3.1**. Watercourses on Burlington Urban Creeks, Oakville East Urban Creeks, and Sixteen Mile Creek watersheds are designated as warm water habitats, while watercourses on Oakville West Urban Creeks and Sixteen Mile Creek watersheds are designated as potential cold or cool water habitat. Majority of the watercourses in CH are not directly related to fish habitat except for watercourses on Shoreacres Creek, Bronte Creek, and Sixteen Mile Creek. All crossings within the jurisdiction of CVC are directly related to fish habitat. Notably, species at risk (SAR) have been found on watercourses BR02, S02, and F03. Watercourses in Bronte Creek, Fourteen Mile Creek, Sixteen Mile Creek, and Fletcher's Creek tributaries are regulated by ESA.

Municipal trunk sewers including NO1, NO2, NO3, BU01, BU02, BU03, and BU04, are present at the west end of the project site, through which creeks and stormwater runoff from upstream urban areas were carried under the existing 407 ETR. The invert information extracted from the drawings represents the approximate pipe invert elevation at the 407 ETR centreline. The pipe obvert elevation within the TWY 4 corridor needs to be further refined through additional ground survey at later stages to ensure the final design provides sufficient cover and protection to the existing underground pipes. The inlet and outlet conditions indicate the connectivity of 407 ETR's corridor drainage system to the storm trunk. Notably, NO1 is a large concrete storm trunk designed for Rambo-Hager creek diversion. It starts from south of Upper Middle Road collecting road runoff from 407 ETR and runs to the south parallel to ETR while intercepting stormwater drainage from adjacent residential areas. The outlet is located north of North Service Road where it crosses the ETR and drains into the Hager Creek. The length of this storm trunk was not extracted as the pipe length does not represent the length of crossing structure. As shown in **Table 3.1**, majority of the storm trunk collect and convey runoff from 407 ETR, indicating an outlet liability assessment is needed if storm trunk are utilized to convey storm runoff from TWY 4 corridor.

Majority of the creeks are carried under 407 ETR through culverts. Corrugated metal culverts including circular and pipe arch culverts are found in the west half of the project. Several pipes have been rehabilitated with HDPE liner pipes as shown in **Table 3.1**, indicating the cross-sectional area may be reduced from its original design. The analysis of existing condition in this study is based on culvert sizes extracted from record drawings assuming the culvert rehabilitation did not reduce the conveyance capacity. Detailed survey is needed at later stages to update culverts sizes and materials to confirm hydraulic capacity.

Crossing BR02, S02, M01, L01, NP01, and F03 are bridges over large watercourses. Dimension of bridge structures are extracted from record drawings as shown in **Table 3.2**.

Table 3.1 Inventory of Watercourses and Existing Culverts Crossings Details on 407 ETR

Watercourse ID	Watercourse	Watershed	Permanency	Thermal	Fisheries		CA	FP	Type	Invert Elevation (m)		Length (m)	Slope (%)	Dimension (mm)		Inlet Condition	Outlet Condition
					Habitat	Sensitivity				U/S	D/S			Rise	Span		
Storm Trunk																	
N01	Rambo to Hager Creek Realignment	North Shore	Intermittent	Not Surveyed	-	-	Non-regulated	Non-regulated	Concrete Box Trunk	133.20	110.80			3500	4500	CB	CB
N02	West Rambo Creek	North Shore	Permanent	Warm	Indirect	Low	Regulated	Non-regulated	SIWSRSP		132.50	201.6		1950		CB	CB
N03	East Rambo Creek	North Shore	Permanent	Warm	-	-	Non-regulated	Non-regulated	SIWSRSP		133.00	54.5		1200		Sump MH	CBMH
BU01	Roseland Creek	Burlington Urban Creeks	Permanent	Warm	No		Non-regulated	Non-regulated	SIWSRSP		160.00	141.1		1800		CB lead	not connected
BU02	Tuck Creek	Burlington Urban Creeks	Permanent	Warm	Indirect	Low	Non-regulated	Non-regulated	SIWSRSP	153.45	153.10	142.2		2500		CB lead	CB lead
BU03	Tuck Creek	Burlington Urban Creeks	Permanent	Warm	-		Non-regulated	Non-regulated	Concrete Circular		153.60	141.6		1650		not connected	not connected
BU04	Tuck Creek	Burlington Urban Creeks	Permanent	Warm	No		Regulated	Regulated	SIWSRSP	152.96	152.17	142.0		2600		CB	CB
Culverts																	
BU05	Shoreacres Creek	Burlington Urban Creeks	Permanent	Warm	Indirect	Low	Regulated	Regulated	CSP Pipe Arch	156.10	155.55	112.2	0.49%	2690	3590	Projecting	Projecting
BU06	Shoreacres Creek	Burlington Urban Creeks	Permanent	Warm	Direct	Low	Regulated	Regulated	CSP Pipe Arch	159.20	158.30	105.0	0.86%	2290	3350	Projecting	Projecting
BU07	Shoreacres Creek	Burlington Urban Creeks	Permanent	Warm Perm	Indirect	Low	Regulated	Regulated	CSP Pipe Arch	161.10	160.77	72.2	0.46%	1630	2240	Projecting	Projecting
									CSP Pipe Arch	161.45	161.12	72.2	0.46%	1520	2060	Projecting	Projecting
BU08	Appleby Creek	Burlington Urban Creeks	Permanent	Warm Perm	Indirect	Low	Regulated	Regulated	CSP Pipe Arch	162.91	161.90	84.7	1.19%	1980	3100	Projecting	Projecting
									CSP Pipe Arch	162.91	161.50	83.6	1.69%	2290	3650	Projecting	Projecting
BU09	Appleby Creek	Burlington Urban Creeks	Permanent	Warm	Indirect	Low	Regulated	Non-regulated	CSP	163.35	162.50	90.2	0.94%	2000		Projecting	Projecting
BU10	Sheldon Creek	Burlington Urban Creeks	Permanent	Not Surveyed	Indirect	Low	Regulated	Regulated	CSP	161.10	160.70	72.0	0.56%	2400		Projecting	Projecting
BU11	Sheldon Creek	Burlington Urban Creeks	Permanent	Not Surveyed	Indirect	Low	Regulated	Regulated	CSP	160.12	158.80	116.2	1.14%	1600		Mitered	Mitered
BU12	Sheldon Creek	Burlington Urban Creeks	Intermittent	Not Surveyed	Indirect	Low	Regulated	Non-regulated	CSP	161.80	161.00	110.8	0.72%	2000		Projecting	Projecting
OW01	Fourteen Mile Creek	Oakville West Urban Creeks	Permanent	Not Surveyed	Indirect	Moderate	Regulated	Regulated	CSPx2		158.40	128.6		1800		Mitered	Mitered
OW02	Fourteen Mile Creek	Oakville West Urban Creeks	-	-	Indirect	Moderate	Non-regulated	Non-regulated	CSPx2		155.45	65.4		1600		90° Concrete Headwall	Mitered
OW03	Fourteen Mile Creek	Oakville West Urban Creeks	Permanent	Cold	Indirect	Moderate	Regulated	Regulated	CSPx3 (rehab)		154.02	134.2		1800		Mitered	Mitered
OW04	Fourteen Mile Creek	Oakville West Urban Creeks	-	-	Indirect	Moderate	Regulated	Regulated	CSP (rehab)		154.35	131.7		1600		Mitered	Mitered
OW05	Fourteen Mile Creek	Oakville West Urban Creeks	Permanent	Cold	Indirect	Moderate	Regulated	Regulated	CSP (rehab)		154.88	111.6		1800		Mitered	Mitered
OW06	Fourteen Mile Creek	Oakville West Urban Creeks	-	-	Indirect	Moderate	Regulated	Regulated	CSP (rehab)		154.25	134.0		1800		Mitered	Mitered
OW07	Fourteen Mile Creek	Oakville West Urban Creeks	Permanent	Cold	Indirect	Moderate	Regulated	Regulated	CSPx3 (rehab)		158.71	96.4		1800		Mitered	Mitered
OW08	Fourteen Mile Creek	Oakville West Urban Creeks	-	-	Indirect	Moderate	Regulated	Non-regulated	CSP (rehab)		163.14	89.4		900		Mitered	Mitered
OW09	Fourteen Mile Creek	Oakville West Urban Creeks	-	-	Indirect	Moderate	Non-regulated	Non-regulated	CSPx2 (rehab)		163.58	111.3		1200		90° Concrete Headwall	Mitered
OW10	Fourteen Mile Creek	Oakville West Urban Creeks	Permanent	Cold	Indirect	Moderate	Regulated	Regulated	CSPx4		164.60	119.0		1800		90° Concrete Headwall	Mitered
OW11	Fourteen Mile Creek	Oakville West Urban Creeks	-	-	Indirect	Moderate	Regulated	Regulated	CSP (rehab)		167.20	84.4		1500		Mitered	Mitered
S01	Sixteen Mile Creek	Sixteen Mile Creek	Intermittent	Cool	Indirect	Moderate	Regulated	Regulated	CSP (rehab)		166.53	86.4		2700		Mitered	Mitered
S03	Sixteen Mile Creek	Sixteen Mile Creek	-	-			Non-regulated	Non-regulated	CSP (rehab)	181.75	180.75	206.0	0.49%	1400		Mitered	Mitered
OE01	Joshua Creek	Oakville East Urban Creeks	Intermittent	Warm	-		Regulated	Non-regulated	CSP		184.95			800			
OE02	Joshua Creek	Oakville East Urban Creeks	Intermittent	Warm	Indirect	Low	Non-regulated	Non-regulated	Concrete Box		185.40	75.9		1200	1800	Projecting	Projecting
OE03	Joshua Creek	Oakville East Urban Creeks	-	-	-		Non-regulated	Non-regulated	CSP		182.33	76.4		900		Mitered	Mitered
OE04	Joshua Creek	Oakville East Urban Creeks	-	-	Indirect	Low	Regulated	Regulated	Concrete Box		182.20	72.4		1200	1800	Projecting	Projecting
OE05	Joshua Creek	Oakville East Urban Creeks	Intermittent	Warm	Indirect	Low	Regulated	Regulated	Concrete Box		180.75	82.8		1500	1500	Projecting	Projecting
OE06	Joshua Creek	Oakville East Urban Creeks	Intermittent	Warm	Indirect	Low	Regulated	Regulated	Concrete Box		178.30	129.3		1500	3500	Projecting	Projecting
F01	Fletcher's Creek	Fletcher's Creek	-	-	Indirect	Low	Non-regulated	Non-regulated	Concrete Box							Projecting	Projecting
NPO2	Credit River	Credit River	Permanent	Not Surveyed	Indirect	Low	Non-regulated	Non-regulated	CSP x2								

Table 3.2 Inventory of Watercourses and Existing Bridges Crossing Details on 407 ETR

Watercourse ID	Watercourse	Watershed	Permanency	Thermal	Fisheries		CA	FP	No. of Piers	Soffit Elevation (m)	Total Span (m)
					Habitat	Sensitivity					
BR02	Bronte Creek	Bronte Creek	Permanent	Warm	Direct	High	Regulated	Regulated	2	152.5	150
S02	Sixteen Mile Creek	Sixteen Mile Creek	Permanent	Cool	Direct	High	Regulated	Regulated	7	167.35	332
M01	Mullet Creek	Mullet Creek	Permanent	Not Surveyed	Direct	Low	Regulated	Regulated	0	192.96	21
L01	Levi Creek	Levi Creek	Intermittent	Not Surveyed	Direct	Moderate	Regulated	Regulated	0	179.234	34
NP01	Credit River	Credit River	Permanent	Not Surveyed	Direct	High	Regulated	Regulated	6	178.99	259
F03	Fletcher's Creek	Fletcher's Creek	Intermittent	Not Surveyed	Direct	High	Regulated	Regulated	1	200.55	46

4 Proposed Condition

The design analysis has been based on the proposed Profile and Alignment of TWY 4. The proposed works include a two-lane, fully grade separated transit facility running mainly on the north side of the 407 ETR from west of Brant Street to Tremaine Road and on the south side to the Hurontario Street. Along the TWY 4 corridor, 8 transit stations are proposed, which mainly consists of parking areas and bus bays. **Figure A.5** to **Figure A.8** show the drainage mosaics for the proposed condition, including proposed alignment of TWY4 and subdivided drainage catchments.

The impacts to Drainage and Hydrology Engineering design related to the proposed TWY 4 include:

- Construction of additional culverts and bridges within the project limits
- Extension of one existing 407 ETR crossing structure
- Realignment of Headwater Drainage Features (HDFs) in Shoreacres Creek and Sheldon Creek Watersheds along the north side of the TWY 4 corridor
- Realignment of East Sixteen Mile Creek between 407 ETR and 9th Line
- Relocation of outfall structures for the existing drainage systems
- Implementation of appropriate SWM practices

Additional road embankment alters the drainage pattern to the proposed crossing locations. The proposed catchments were delineated based on proposed TWY 4 alignment. Additional pavement surface within the ROW is not further subdivided as they are expected to be controlled to pre-development peak flow rates and detailed SWM analysis was to be discussed separately in SWM design section. **Figure A.5** to **Figure A.8** show the proposed catchment boundaries and the proposed crossing locations.

4.1 PROPOSED TWY 4 DESIGN

Typical cross sections of the proposed TWY 4 are shown in **Figure 4.1**. The total width of paved road is 12 m for running ways and 14 m through stations. Open ditching and culverts provide drainage for the proposed TWY 4 corridor. Catchbasins and laterals are installed where ROW width is limited and open ditching on both sides of the highway could not be accommodated. The proposed site condition are further discussed in detail as below.

Brant Street to Dundas Street: North/South

TWY 4 in this area is bounded by the existing 407 ETR ROW to the east and residential development to the west. No watercourse crossing is proposed within this segment. As the available site space is limited, a retaining wall is proposed on the west side immediately next to the road shoulder. Catchbasins and laterals are proposed to collect and convey surface runoff to a swale along the east side of the corridor to the downstream outlet at North Service Road.

Dundas Street to Tremaine Road: Northeast/Southwest

The proposed TWY 4 in this area is running along the west side of the existing 407 ETR. As the TWY 4 is upstream of 407 ETR in this segment, numerous creek crossings are proposed to safely manage the surface water flowing from upstream catchments. Notably, a minor branch in the tributary of Shoreacres Creek and Sheldon Creek are to be realigned to provide better flood protection to both 407 TWY 4 and 407 ETR.

Tremaine Road to 407/403 Interchange: Northeast/Southwest

The proposed TWY 4 alignment is on the east side of the existing 407 corridor downstream of ETR crossing structures. To provide sufficient outlet for the existing crossings, crossings proposed in the TWY 4 limits not only considers the upstream drainage area, it also considers the existing highway drainage and SWM pond outlets from 407 ETR.

407/403 Interchange to 9th Line: Northwest/Southeast

The proposed TWY 4 turns eastward away from the existing 407 ETR corridor within this segment as it traverses a large floodplain area. The TWY 4 corridor is proposed to be the boundary of the floodplain zone and utilized as a floodplain modification measure north of Britannia Road. Future development south of Britannia Road is subject to discussion with CH as the current flood level may be revised depending on the improvement of downstream hydraulic condition. For majority of the TWY 4 in this segment, the TWY 4 is offsite from the ETR corridor to provide sufficient meander belt width, floodplain storage and conveyance capacity. Detailed floodplain studies have been done and are adapted for the TWY 4 drainage design.

9th Line to Highway 401: Northeast/Southwest

The proposed TWY 4 run underground within this segment. Therefore, no watercourse crossing structures are proposed and the surface water features remain undisturbed in post development condition.

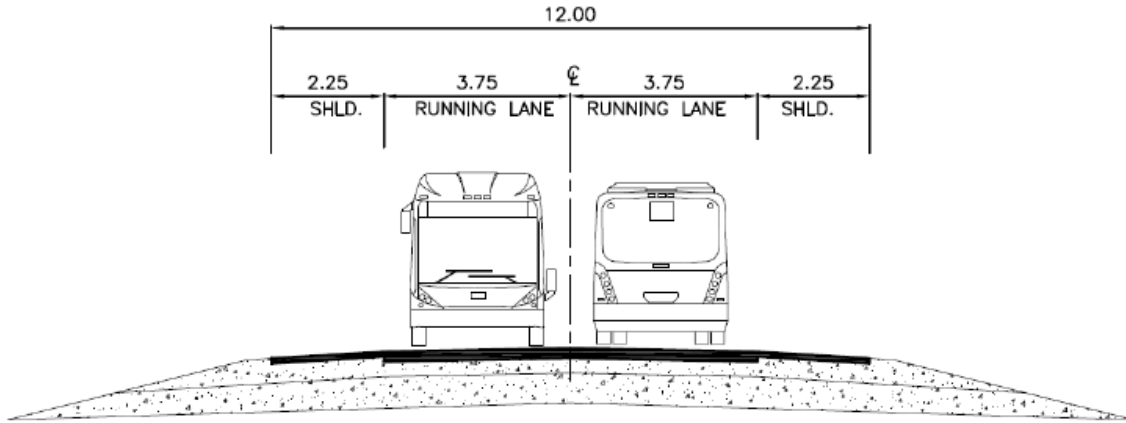
Highway 401 to Hurontario Street: Northeast/Southwest

The proposed TWY 4 within this segment crosses several major creeks within the jurisdiction of CVC. The proposed alignment is mainly located on the southeast side and downstream the existing 407 ETR except for a small segment around Levi Creek. Existing creek flood study reports are available and adapted. Given the size of the creeks in this area, most of the proposed crossings are bridge structures.

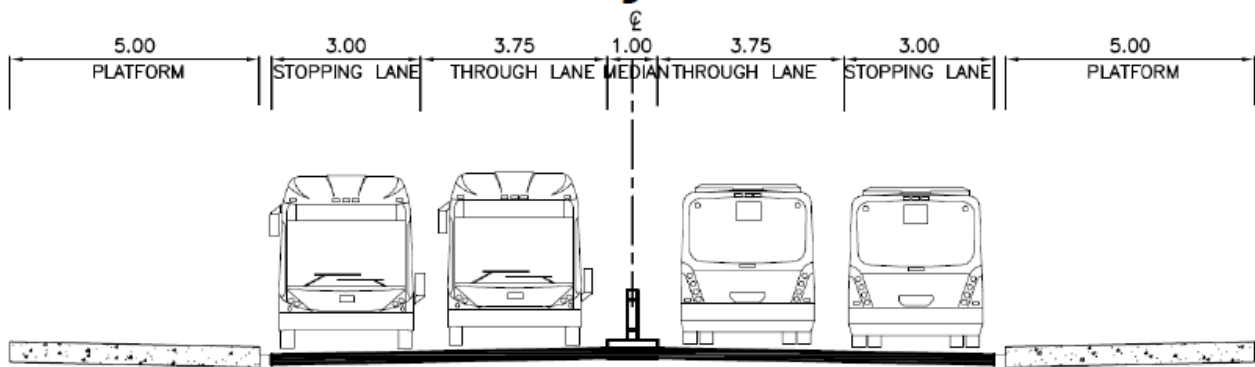
The proposed highway development increases imperviousness from additional pavement area leading to increase in peak runoff rate. Stormwater Management applications such as swales and ponds are needed to control the post-development release rate, minimize the impacts from the new development and ensure no adverse impact are imposed to the downstream land owner.

Figure 4.1 Typical Road Cross-sections

BRT Between Stations



BRT Through Stations



5 Watercourse Crossing Design Analysis

Hydrologic and hydraulic analyses have been undertaken for the existing and proposed water crossings to identify the headwater elevations and evaluate whether the design criteria could be met. 54 watercourse crossings within the study limits have been identified, of which 43 carry the upstream flow from creek subwatersheds under the 407 ETR. The remaining watercourses have been identified as minor conveyance features with small localized tributary areas or upstream 407 ETR outlet that the proposed TWY will not affect.

5.1 WATERCOURSE CROSSING DESIGN CRITERIA

The proposed TWY 4 is designed as Freeways under the jurisdiction of MTO. The following standards from MTO Highway Drainage Design Standards (HDDS), Gravity Pipe Design Guidelines (GPDG), and Canadian Highway Bridge Design Code (CHBDC) are followed.

Table 5.1 Summary of Hydraulic Design Criteria

Crossing Type	Criteria	Condition	Value	References
Bridges & Culverts	Design Flow	Total Span \leq 6.0m	50-year	WC-1 HDDS
		Total Span $>$ 6.0m	100-year	
	Regional Flow	-	Hurricane Hazel	
	Check Flow	-	130% of 100-year	
Bridges	Minimum Freeboard	Design Flow	1m	WC-2, HDDS
	Minimum Clearance	Design Flow	1m	
	Water Level	Check Flow	\leq Edge of Travelled Lane	
	Design Service Life (DSL)		75 years	CHBDC
Culverts	Minimum Freeboard	Design Flow HWL	1m	WC-7, HDDS
	Desirable Freeboard	Design Flow EGL	1m	
	Water Level	Check Flow	\leq Edge of Travelled Lane	
	Flood Depth at Culverts	Diameter/Rise $<$ 3m	HW/D \leq 1.5	
		Diameter/Rise 3m to 4.5m	HW \leq 4.5m	
		Diameter/Rise $>$ 4.5m	HW/D \leq 1.0	
	Minimum Diameter	Circular	800 mm	WC-8, HDDS
	Minimum Rise	Box	900 mm	
Minimum Rise	Elliptical or Arch	800 mm		
Design Service Life (DSL)	Freeway		75 years	GPDG

5.2 HYDROLOGIC ANALYSIS

The topography in the study watersheds is generally sloping from north to south with drainage being accommodated by 6 major tributaries and 8 smaller tributaries. Urbanization has occurred upstream of TWY 4 section between Brant Street and Dundas Street. Runoff from most of the upstream catchments is uncontrolled and conveyed through storm trunk. Upstream catchments of TWY 4 section east of Dundas Street is mostly rural lands that is expected to be developed with

SWM facilities to control the post-development flow rate to pre-development level for all return periods. The runoff is currently conveyed through natural drainage paths and creeks.

The catchment area delineation was completed based on an interpretation of Ontario Integrated Hydrology Mapping and information on watercourses received from CH and CVC. The delineated catchments were compared with existing crossing locations extracted from 407 ETR Record Drawings to refine the drainage areas. The refined drainage areas with corresponding watercourse IDs are shown in **Table 5.3**.

5.2.1 Model Development

A hydrologic model was developed in Visual OTTHYMO 5 (VO5) to quantify the design flows for watercourse crossings in Regional, 100-year and 50-year storm events. As the information on SWM facilities is not available in most watersheds, pre-development condition is assumed for all upstream catchments. 24 hour SCS Type II design storms are adapted in VO5 modelling as it has been recommended for rural watershed runoff calculation. A summary of the computed flow for existing condition is given in **Table 5.3**.

In developing new VO5 models, to simplify model development process, upstream drainage features and retention storages such as natural drainage paths, low-lying wetland areas, and drainage channels were represented with hydrologic modelling parameters. Watershed parameters such as CN number, Initial abstraction, etc. were calculated based on Ontario Soil Survey and Land Cover Maps. The upstream watersheds often encompass large area, where various soil and land cover types are present. Area weighted CN number was identified to represent the average runoff generation characteristics of the study area. Detailed calculation of modelling parameters, model schematics, input and output files are provided in **Appendix C**.

5.2.2 Hydrologic Analysis Results – Existing Crossings

Results of hydrologic analysis for the existing crossings are summarized in **Table 5.2** to **Table 5.4**. Design flows on several storm trunk are found from previous studies as summarized in **Table 5.2**. As pre-development condition could not be assumed for the fully urbanized upstream catchments contributing to the storm trunk such as areas between Brant Street and Dundas Street, VO models were not developed and peak flows from previous subwatershed studies were adapted. As the proposed TWY 4 development does not need to alter the crossing structures of storm trunk, further hydraulic analysis on crossing design is not carried out. However, conveyance capacity is assessed with the design flows when storm trunk is used as outlet of corridor drainage.

Table 5.2 Storm Trunk Design Flows – Existing Crossings

Watercourse ID	Drainage Area (ha)	Peak Flows (m ³ /s)				Source
		Check	Regional	100-Yr	50-Yr	
N02	271.8	38.454	33.13	29.58	25.65	Phillips Engineering
BU02	182.4	6.214	31.2	4.78	4.3	Aquafor Beech
BU04	235.0	17.94	28.6	13.8	11.7	Aquafor Beech

Majority of design flows for culvert crossings are calculated with VO modelling as summarized in **Table 5.3** as flow calculated based on 24-hour SCS Type II design storm developed with 2094 MTO IDF curves satisfies MTO’s requirements of climate change consideration and better quantifies the runoff rates from rural areas. Peak flows for Regional Storm from previous studies were extracted from hydraulic models provided by Conservation Authorities and listed in **Table 5.3** together with corresponding references.

Table 5.3 Culverts Design Flows - Existing Crossings

Watercourse ID	Drainage Area (ha)	Peak Flows (m³/s)				Reg. from CAs ¹ (m³/s)	Reference
		Check	Regional	100-Yr	50-Yr		
BU05	134.2	10.41	12.78	8.01	7.20	13	EWRG
BU06	106.0	8.28	10.19	6.37	5.71	8.1	EWRG
BU07	62.1	10.06	7.75	7.74	6.96	8.2	EWRG
BU08	219.9	18.59	21.79	14.30	12.85	31	EWRG
BU09	65.6	6.21	6.77	4.78	4.30	9	EWRG
BU10	91.4	12.91	10.83	9.93	8.95	17.81	MMM
BU11	59.5	5.80	6.21	4.46	4.02	14.3	PPE
BU12	65.6	7.95	7.34	6.11	5.51	7.6	PPE
OW01	106.0	7.62	9.52	5.87	5.29	7.32	NOCSS
OW02	28.4	4.91	3.60	3.78	3.41	1.65	NOCSS
OW03	119.7	8.42	10.72	6.47	5.83	5.95	NOCSS
OW04	7.8	0.94	0.89	0.73	0.65	0.3	NOCSS
OW05	31.3	2.00	2.74	1.54	1.38	1.57	NOCSS
OW06	38.4	5.37	4.56	4.13	3.71	1.83	NOCSS
OW07	167.2	16.91	17.66	13.01	11.72	8.68	NOCSS
OW08	6.9	1.09	0.86	0.84	0.74	0.39	NOCSS
OW09	62.8	6.18	6.50	4.75	4.30	2.74	NOCSS
OW10	101.5	10.91	10.77	8.39	7.62	4.04	NOCSS
OW11	31.4	5.10	3.90	3.92	3.54	0.51	NOCSS
S01	123.5	13.61	13.37	10.47	9.46	6.01	NOCSS
S03	84.7	16.38	11.13	12.60	11.37	na	-
OE01	27.9	4.67	3.50	3.60	3.25	1.56	NOCSS
OE02	21.0	3.27	2.56	2.52	2.27	0.14	NOCSS
OE03	8.1	2.04	1.13	1.57	1.42	1.4	NOCSS
OE04	23.5	3.66	2.87	2.81	2.54	2.03	NOCSS
OE05	33.8	4.16	3.79	3.20	2.89	3.38	NOCSS
OE06	92.8	8.07	10.06	6.21	5.60	1.56	NOCSS
S-E04a	29.0	4.03	3.69	3.10	2.69	na	-
NP02	217.1	19.25	21.00	14.81	13.47	na	-
F01	40.5	5.54	4.61	4.26	3.89	na	-

¹Regional Flows from Conservation Authorities

Peak flows at existing bridges crossings on 407 ETR were extracted from previous creek floodline study obtained from CAs. Notably, majority of the bridges have a drainage area greater than 25 km², indicating peak flows calculated from the single event simulation based on design storms with artificial distribution are not applicable. Peak flows from previous studies were adapted for further hydraulic analysis as summarized in **Table 5.4**.

Table 5.4 Bridges Design Flows – Existing Crossings

Watercourse ID	Drainage Area (ha)	Design Flows (m ³ /s)				Source
		Check	Regional	100-Yr	50-Yr	
Bridges						
BR02	29986.5	225	898	173	137	The Proctor & Redfern Group
S02	33251.2	389	1109	299	269	The Proctor & Redfern Group
M01	565.5	52	45	40	35	CPM
L01	2201.7	147	130	113	95	CPM
NP01	68089.1	547	694	421	350	Stantec
F03	3250.9	169	189	130	113	Clarifica

5.3 PROPOSED CROSSINGS

31 culvert crossings and 10 bridges are proposed within the project limits as shown in **Figure A.5** to **Figure A.8**. **Table 5.6** summarizes the inlet and outlet channel invert elevations, dimensions and shapes of the proposed crossings. The road profile elevations are also included for comparison. Notably, all design elevations are based on aerial survey of existing ground surface and record drawings of 407 ETR, which may deviate from streambed invert elevation due to channel aggradation and degradation, and accuracy limits in aerial survey data. Ground survey prior to detailed design to update elevations of streambed and existing drainage features on 407 ETR for all proposed crossings are needed.

Secondary storm sewers are present in the study section of 407 TWY 4 south of Dundas Street, indicating additional crossing structures are not needed to carry runoff under the corridor. As shown in **Figure A.5**, the TWY 4 runs on west side of the storm trunk and no new crossing structure is needed at N01. However, elevations of an existing storm sewer crossing the noise berm of 407 ETR on the west side needs to be confirmed through ground survey at later stages to understand the impacts of construction.

N02 is an existing crossing structure with both inlet and outlet located outside of 407 ETR ROW. A regulated floodplain delineated by CH around the crossing inlet indicates the existing west noise berm of the ETR helps contain the headwater and prevents spill from regional storm. To avoid further impacting the existing floodplain, the top of berm elevation of the noise berm needs to be maintained when the ground is lowered for TWY 4 corridor. No new crossing structure is needed at this location. Similarly, N03 is an existing storm trunk crossing 407 ETR. No new structures is proposed at this location.

12 crossings are identified within Burlington Urban Creeks watershed. BU01, BU02, BU03 and BU04 are municipal trunk sewers where the TWY4 is proposed to run on top of the existing pipes. Culverts crossing noise berm at BU04 needs to be modified to avoid conflicts. The flow originally carried by the culverts is proposed to be diverted to BU04 to cross the Highways. No new crossing structure is proposed at these locations. A short creek realignment is proposed upstream of BU05 and BU10 to relocate the creek to new crossing locations where grades are lower and allow shorter culvert length. The new location is also closer to the downstream drainage outlet in 407 ETR, resulting in shorter distance of creek run between two highways.

11 crossings are identified within the Oakville West Urban Creeks watershed. Culverts crossings are not proposed on crossing OW03, OW09 and OW10 as the overpass structures allow the Transitway to span over the creek corridor. 6 crossings are identified within the Oakville East Urban Creeks watershed. Notably, the proposed TWY 4 runs underground at crossing OE06 where no new crossing structure is proposed.

7 crossings and 1 culvert extension are proposed for TWY 4 to run through the 9th Line Floodplain. S-E01 and S-E02 are downstream of existing SWM pond and sufficient outlet needs to be provided to ensure the operation of existing ponds are not affected. S-E03, S-E04, S-E05 and S-E06 are bridges crossing existing floodplain where sufficient span needs to be provided to ensure the meander belt width requirement is met. S-E07 is a culvert crossing upstream of a major creek realignment and adjacent to tunnel portal area. The overland escape path needs to be carefully managed at later design stage to ensure the headwater and tailwater would not spill into the tunnel causing flooding at the low point.

A few minor crossings were proposed along the TWY 4 corridor to provide outlets for existing drainage systems at adjacent properties. Water crossings BR01 and OE01 are located downstream of 407 ETR SWM ponds and provides drainage outlet for the highway drainage systems. Crossing S01a located downstream of HRCA Solid Waste Treatment Centre provides drainage outlet for the solid waste processing facility. Crossing S03a provides drainage outlet for the Star Oak industrial park developed adjacent to Transitway corridor.

Majority of the culvert crossings are proposed to be concrete box culverts as it satisfies the design service life (DSL) requirements of 75 years and is preferred for fish passage. Circular culverts are proposed on minor crossings where fish habitats are not present. For watercourses with SAR identified, bridges are proposed.

5.3.1 Hydrologic Analysis Results – Proposed Crossings

Results of hydrologic analysis for the proposed crossings are summarized in **Table 5.5**. Drainage areas in proposed condition are also included as shown in **Table 5.5**. Flow rates calculated from hydrologic analysis in proposed scenarios were used to assess the hydraulic conditions of proposed crossings. Flow rates calculated using an existing VO model for 9th Line area (crossing S-E01 to S-E07) were adapted. The design storm was updated to 24 hours SCS Type II storm with future rainfall (IDF curve year 2094) to meet MTO's design requirements. Hydrologic models for 9th Line Lands were adapted with revised design storm to be consistent with other crossing designs and peak flows were quantified accordingly.

No external subwatershed was identified for the minor crossings, and it is excluded from the subwatershed hydrologic analysis at this stage. As majority of the minor crossings are located downstream of flow control structures, the discharge characteristics are determined by the operation of upstream detention facilities. Further information related to flow control configuration and pond dimensions needs to be collected to evaluate the peak flows.

Notably, significant urbanization has occurred in some upstream drainage areas within the study limits. Therefore, results from statistical analysis of streamflow data would not be applicable as the catchments are not hydrologically similar to the watershed contributing to the stream flow stations. Peak flows from previous subwatershed and flood mapping studies obtained from CAs are also considered and compared with flows calculated in this study. As majority of the subwatershed

studies were completed before 2010 without climate change consideration, the methods do not meet MTO's requirements. As a result, flows generated from hydrographic models were carried forward to better estimate the design flow rates.

During the final design/construction phase, drainage boundaries will be verified to confirm design flow rates, following MTO Design Guidelines.

Table 5.5 Peak Flows – Proposed Crossings

Crossing ID	Approx. Chainage	Watersheds	Design Flow	Drainage Area (ha)	Design Flows (m³/s)			
					Check	Regional	100-Yr	50-Yr
Culverts								
BU05	17+100	Burlington Urban Creeks	50-year	126.8	9.60	12.00	7.38	6.63
BU06	17+450	Burlington Urban Creeks	100-year	103.8	8.10	9.98	6.23	5.59
BU07	17+850	Burlington Urban Creeks	50-year	57.3	9.27	7.15	7.13	6.41
BU08	18+450	Burlington Urban Creeks	100-year	217.0	18.34	21.51	14.11	12.68
BU09	18+800	Burlington Urban Creeks	50-year	61.5	5.82	6.34	4.47	4.03
BU10	19+200	Burlington Urban Creeks	50-year	85.5	11.90	10.08	9.16	8.24
BU11	19+900	Burlington Urban Creeks	50-year	56.4	5.33	5.84	4.10	3.69
BU12	20+350	Burlington Urban Creeks	Tunnel	48.5	5.62	5.36	4.32	3.89
OW01	22+520	Oakville West Urban Creeks	50-year	102.2	7.35	9.18	5.66	5.10
OW02	22+760	Oakville West Urban Creeks	50-year	22.1	3.68	2.77	2.83	2.55
OW03	23+310	Oakville West Urban Creeks	100-year	121.2	8.53	10.86	6.56	5.90
OW04	23+540	Oakville West Urban Creeks	50-year	10.9	1.41	1.27	1.09	0.97
OW05	23+780	Oakville West Urban Creeks	50-year	33.4	2.15	2.93	1.65	1.48
OW06	24+020	Oakville West Urban Creeks	50-year	40.9	5.80	4.88	4.46	4.00
OW07	24+390	Oakville West Urban Creeks	50-year	170.3	17.23	17.99	13.25	11.94
OW08	24+660	Oakville West Urban Creeks	50-year	9.4	1.67	1.20	1.28	1.15
OW09	24+930	Oakville West Urban Creeks	100-year	67.3	6.68	7.00	5.14	4.65
OW10	25+250	Oakville West Urban Creeks	100-year	107.4	11.63	11.43	8.95	8.13
OW11	25+730	Oakville West Urban Creeks	50-year	37.7	6.22	4.70	4.79	4.32
S01	26+710	Sixteen Mile Creek	50-year	134.2	14.93	14.56	11.49	10.37
S03	31+850	Sixteen Mile Creek	50-year	64.7	12.34	8.46	9.50	8.57
OE02	33+800	Oakville East Urban Creeks	50-year	23.7	3.69	2.89	2.84	2.57
OE03	34+100	Oakville East Urban Creeks	50-year	10.3	2.80	1.45	2.15	1.95
OE04	34+330	Oakville East Urban Creeks	50-year	24.8	4.02	3.06	3.09	2.80
OE05	34+600	Oakville East Urban Creeks	50-year	36.9	4.83	4.19	3.72	3.37
OE06	35+200	Oakville East Urban Creeks	Tunnel	96.7	10.29	10.28	7.91	7.17
S-E01	38+790	Sixteen Mile Creek	50-year	75.0	5.60	8.09	4.31	2.84
S-E02	39+380	Sixteen Mile Creek	50-year	122.8	10.96	13.25	8.43	4.82
S-E04a	42+250	Sixteen Mile Creek	50-year	29.0	4.03	3.62	3.10	2.69
S-E07	44+000	Sixteen Mile Creek	50-year	332.0	23.35	35.38	17.96	14.98

Crossing ID	Approx. Chainage	Watersheds	Design Flow	Drainage Area (ha)	Design Flows (m³/s)			
					Check	Regional	100-Yr	50-Yr
NP02	52+450	Credit River	50-year	238.2	21.36	23.18	16.43	14.94
F01	53+950	Fletcher Creek	Tunnel	44.2	6.09	5.05	4.69	4.27
Bridges								
BR02	21+350	Bronte Creek	100-year	29979.6	225	898	173	137
S02	27+500	Sixteen Mile Creek	100-year	33251.7	389	1109	299	269
M01	49+100	Mullet Creek	100-year	559.8	52	45	40	35
L01	50+430	Levi Creek	100-year	2177.4	147	130	113	95
NP01	52+050	Credit River	100-year	68091.2	547	694	421	350
F03	54+860	Fletcher's Creek	100-year	3250.9	169	189	130	113
S-E03	40+300	Sixteen Mile Creek	100-year	1010.4	51.04	99.87	39.26	35.04
S-E04	42+000	Sixteen Mile Creek	100-year	387.0	23.42	38.96	18.02	15.05
S-E05	42+750	Sixteen Mile Creek	100-year	332.0	22.42	35.28	17.25	14.45
S-E06	43+000	Sixteen Mile Creek	100-year	332.0	23.35	35.38	17.96	14.98

5.4 HYDRAULIC ANALYSIS

A hydraulic assessment of culverts for existing and proposed conditions was completed using GeoHEC-RAS. Available hydraulic models on regulated watercourses were obtained from CAs and adapted for analysis as noted in **Table 3.1**. The results for existing and proposed conditions are summarized in **Table 5.6**. The GeoHEC-RAS model schematics, input and output files are provided in **Appendix C**.

5.4.1 Methodology

The existing HEC-2 and HEC-RAS models obtained from CH and CVC on regulated watercourse were imported into GeoHEC-RAS and georeferenced to corresponding creek streamline. 407 ETR Crossing structure information extracted from record drawings as listed in **Table 3.1** were incorporated in hydraulic analysis to better identify the existing hydraulic conditions. Bare earth aerial survey data obtained in 2017 were incorporated in model terrain to develop upstream and downstream cross sections around the 407 ETR and TWY culvert crossings. Notably, the existing upstream and downstream cross-section around bridge crossings are not changed as the aerial survey could not identify creek bottom elevation and could not accurately depict cross sections of creeks with significant permanent flow. Bathymetric survey is recommended to better characterize the channel cross section at later design stages. Other information such as reach cross-section characteristics outside of 407 corridors, crossing structures outside of project limits, and flow rates at flow change locations outside of study TWY 4 section from the existing hydraulic model were unchanged and carried forward in the analysis.

Design flows used for hydraulic analysis for existing and proposed crossings were obtained from hydrologic analysis through review and comparison of existing peak flow information as discussed in previous section. Design flows were input into GeoHEC-RAS for existing and proposed structures as listed in **Table 5.3** and **Table 5.5**. Floodplain delineation was completed for areas around 407 corridor and compared with existing regulated floodplain provided by CH and CVC. The model input and output files are shown in **Appendix E**.

5.4.2 Hydraulic Analysis Results

Table 5.6 lists the results of hydraulic analysis for existing and proposed crossings. As shown in **Table 5.6**, the existing headwater elevations were identified based on the design flow requirements listed in **Section 5.2**. Headwater elevations upstream of potential crossing locations of TWY 4 were listed as pre-development flood elevation. Majority of the stream path of watercourses are well defined with limited floodplain. The headwater elevations, HW/D, and road profile elevations are listed to check whether design criteria are met.

As shown in **Table 5.6**, all crossings meet the MTO's hydraulic criteria. As the road surface was not designed at this stage, the edge of travelled lane elevation is assumed to be 0.15 m lower than the road profile elevation listed in the table to account for crossfall. The hydraulic criteria needs to be checked when crossfall grading is designed for the TWY4 corridor.

The head water level increases no more than 0.3 m within the TWY 4 ROW for majority of the proposed cross structures during regional storm. Significant headwater level increase occurs at crossing BU06, as the creek channel is poorly defined

and the floodplain is significantly wider than the culvert width. Channel regrading that lower the inlet elevation by 1m within the TWY 4 ROW could mitigate the impact. However, detailed geomorphic evaluation is needed to examine the erosion potential due to slope changes in streambed. Erosion protection measures such as rip-raps are also needed to avoid adverse impacts on downstream receiving waterbodies.

Crossing OW05, OW06, OW07, S01, and NP02 are located immediately downstream of 407 ETR, where the increase in head water level affects the tailwater conditions of 407 ETR. To better understand the potential impacts to the upstream crossing structure, 407 ETR's head water level was further evaluated against MTO's hydraulic criteria in proposed condition and it is found that increase in head water level of TWY 4's crossing structure does not affect ETR's hydraulic performance. Therefore, it is safe to conclude the hydraulic design of TWY 4 minimizes impacts to upstream and downstream systems.

Temporary and minor crossings need to be sized based on release rate from its upstream development site at later design stages when detailed information of adjacent development site is available. Culvert S01a is needed at approximate Sta. 27+000 to provide drainage outlet for the upstream HRCA solid waste treatment plant. Culvert S03a is needed at approximate Sta 32+100 to provide drainage outlet for the adjacent Star Oak development. Depending on the development staging around Nineth Line Lands, a temporary crossing is needed at approximate Sta 43+500 to accommodate predevelopment runoff generated from areas between TWY 4 and 9th Line.

Single cell structures to facilitate natural channel functions will be considered as alternatives to 2-cell structures where feasible during final design/construction phase. Slope stability assessment is to be completed for major crossings to inform the design of structures and to ensure that erosion hazards are considered and appropriately mitigated.

Table 5.6 Proposed Water Crossings (Culverts/Bridges) Sizing and Structure Hydraulic Performance

Crossing ID	Approx. Chainage	Exst HWL				Prop TWY4 Structure							Prop HWL				Profile Elev. (m)	Embedded Inv. (m)	Meet MTO Criteria			
		Check	Regional	100yr	50yr	U/S	D/S	Length	Slope (%)	Rise	Span	Type	Check	Regional	100yr	50yr			Check Flow WL≤ Edge of Travelled Lane	HW/D≤1.5	Freeboard ≥1.0 m	Cover≥0.6m
BU05	17+100	-	-	-	-	160.80	160.31	25	1.96%	1800	4800	2-cell Conc. Box	161.85	162.05	161.63	161.55	165.388	160.50	Yes	Yes	Yes	Yes
BU06	17+450	163.67	163.69	163.63	163.63	163.25	162.72	25	2.12%	1800	6000	2-cell Conc. Box	164.27	164.40	164.10	164.04	166.453	162.95	Yes	Yes	Yes	Yes
BU07	17+850	164.28	164.25	164.25	164.20	162.60	162.00	30	2.00%	1800	2400	Concrete Box	164.61	164.29	164.28	164.17	167.603	162.30	Yes	Yes	Yes	Yes
BU08	18+450	164.83	164.89	164.73	164.70	164.00	163.77	30	0.77%	2400	6000	2-cell Conc. Box	165.59	165.77	165.34	165.25	167.575	163.70	Yes	Yes	Yes	Yes
BU09	18+800	165.89	165.92	165.82	165.79	165.30	165.08	18	1.22%	1500	3000	Concrete Box	166.59	166.66	166.37	166.29	167.689	165.00	Yes	Yes	Yes	Yes
BU10	19+200	164.09	163.72	163.57	163.48	161.50	161.19	20	1.55%	2400	3000	Concrete Box	164.31	163.88	163.70	163.53	167.855	161.20	Yes	Yes	Yes	Yes
BU11	19+900	162.67	163.10	161.91	161.79	160.80	160.20	20	3.00%	3500	4000	Concrete Box	162.76	163.19	161.96	161.84	166.810	160.50	Yes	Yes	Yes	Yes
BU12	20+350	165.28	165.26	165.21	165.19	Tunnel																
OW01	22+520	160.19	160.37	160.09	160.07	159.00	158.40	20	3.00%	1800	2400	Concrete Box	160.54	160.81	160.26	160.16	161.246	158.70	Yes	Yes	Yes	Yes
OW03	23+310	154.98	155.02	154.89	154.86	Overpass																
OW04	23+540	153.88	153.87	153.86	153.85	153.77	153.65	25	0.48%	1200	1800	Concrete Box	154.48	154.43	154.37	154.32	157.980	153.47	Yes	Yes	Yes	Yes
OW05	23+780	155.03	155.06	155.00	154.99	154.40	154.37	36	0.08%	1800		Circular	155.50	155.71	155.36	155.30	158.638	154.10	Yes	Yes	Yes	Yes
OW06	24+020	154.75	154.73	154.71	154.70	154.14	153.97	33	0.52%	1800		Circular	155.97	155.79	155.70	155.61	158.985	153.84	Yes	Yes	Yes	Yes
OW07	24+390	159.48	159.50	159.38	159.34	158.20	158.07	20	0.65%	2400	3000	Concrete Box	160.63	160.70	160.24	160.10	163.579	157.90	Yes	Yes	Yes	Yes
OW08	24+660	161.93	161.90	161.90	161.90	161.50	161.09	30	1.37%	1200	1800	Concrete Box	162.22	162.07	162.10	162.05	168.611	161.20	Yes	Yes	Yes	Yes
OW09	24+930	165.80	165.84	165.15	165.01	Overpass																
OW10	25+250	165.41	165.41	165.33	165.31	Overpass																
OW11	25+730	166.77	166.71	166.72	166.70	165.70	165.62	35	0.23%	1200	2400	Concrete Box	167.29	166.99	167.01	166.92	171.400	165.40	Yes	Yes	Yes	Yes
S01	26+710	167.06	167.06	167.01	166.99	166.10	166.00	25	0.40%	3000		Circular	168.55	168.55	168.21	168.09	170.414	165.80	Yes	Yes	Yes	Yes
S03	31+850	-	-	-	-	185	184.8	35	0.57%	3000		Circular	186.57	186.21	186.31	186.22	187.560	184.70	Yes	Yes	Yes	Yes
OE02	33+800	185.36	185.33	185.33	185.32	184.30	184.17	25	0.52%	1200	1800	Concrete Box	185.64	185.44	185.43	185.35	187.222	184.00	Yes	Yes	Yes	Yes
OE03	34+100	182.36	182.32	182.34	182.34	182.00	181.95	25	0.20%	1200	1800	Concrete Box	183.12	182.72	182.94	182.88	185.616	181.70	Yes	Yes	Yes	Yes
OE04	34+330	181.83	181.80	181.80	181.78	181.10	181.04	30	0.20%	1200	2400	Concrete Box	182.27	182.07	182.07	182.01	184.765	180.80	Yes	Yes	Yes	Yes
OE05	34+600	181.03	181.02	181.00	181.01	180.20	180.11	30	0.30%	1200	2400	Concrete Box	181.52	181.40	181.31	181.23	182.750	179.90	Yes	Yes	Yes	Yes
OE06	35+200	179.04	179.12	178.95	178.92	Tunnel																
S-E01	38+790	-	-	-	-	186.23	186.17	25	0.24%	3500	4000	Concrete Box	189.57	189.98	189.25	188.88	190.940	185.93	Yes	Yes	Yes	Yes
S-E02	39+380	-	-	-	-	186.61	186.61	25	0.00%	3500	4000	Concrete Box	189.71	190.15	189.33	188.90	195.361	186.31	Yes	Yes	Yes	Yes
S-E04a	42+250	-	-	-	-	193.89	193.50	30	1.29%	2000	3700	Concrete Box	194.91	194.93	195.05	194.99	197.301	193.59	Yes	Yes	Yes	Yes
S-E07	44+000	202.58	202.47	202.48	202.27	201.51	201.27	50	0.48%	1200	4800	2-cell Conc. Box	203.84	203.10	203.23	202.53	204.290	201.21	Yes	Yes	Yes	Yes
NP02	52+450	170.43	170.45	170.37	170.34	169.50	169.06	20	2.20%	3000	4000	Concrete Box	172.04	172.18	171.63	171.50	177.601	169.20	Yes	Yes	Yes	Yes

Table 5.7 Comparison of Existing and Proposed Water Crossings

Watercourse ID	Exst Culverts			Prop Culverts		
	Type	Dimension (mm)		Type	Dimension (mm)	
		Rise	Span		Rise	Span
BU05	CSP Pipe Arch	2690	3590	2-cell Conc. Box	1800	4800
BU06	CSP Pipe Arch	2290	3350	2-cell Conc. Box	1800	6000
BU07	CSP Pipe Arch	1630	2240	Concrete Box	1800	2400
	CSP Pipe Arch	1520	2060			
BU08	CSP Pipe Arch	1980	3100	2-cell Conc. Box	2400	6000
	CSP Pipe Arch	2290	3650			
BU09	CSP	2000		Concrete Box	1500	3000
BU10	CSP	2400		Concrete Box	2400	3000
BU11	CSP	1600		Concrete Box	3500	4000
BU12	CSP	2000		Tunnel		
OW01	CSPx2	1800		Concrete Box	1800	2400
OW02	CSPx2	1600		Pipe Diversion		
OW03	CSPx3 (rehab)	1800		Overpass		
OW04	CSP (rehab)	1600		Concrete Box	1200	1800
OW05	CSP (rehab)	1800		Circular	1800	
OW06	CSP (rehab)	1800		Circular	1800	
OW07	CSPx3 (rehab)	1800		Concrete Box	2400	3000
OW08	CSP (rehab)	900		Concrete Box	1200	1800
OW09	CSPx2 (rehab)	1200		Overpass		
OW10	CSPx4	1800		Overpass		
OW11	CSP (rehab)	1500		Concrete Box	1200	2400
S01	CSP (rehab)	2700		Circular	3000	
S03	CSP (rehab)	1400		Circular	3000	
OE01	CSP	800		-	-	-
OE02	Concrete Box	1200	1800	Concrete Box	1200	1800
OE03	CSP	900		Concrete Box	1200	1800
OE04	Concrete Box	1200	1800	Concrete Box	1200	2400
OE05	Concrete Box	1500	1500	Concrete Box	1200	2400
OE06	Concrete Box	1500	3500	Tunnel		
S-E04a	Concrete Box	2000	3700	Concrete Box	2000	3700
NP02	CSP x2			Concrete Box	3000	4000

6 Corridor Drainage and Stormwater Management

6.1 CORRIDOR DRAINAGE AND STORMWATER MANAGEMENT CRITERIA

The proposed TWY 4 is designed as Freeways under the jurisdiction of MTO. Major system conveyance is considered at this stage of design. Open ditching is provided to convey surface runoff where land is available. Underground piping system is proposed west of Dundas St. as the space available for TWY 4 corridor is limited. Minor system needs to be evaluated at later stages when road cross-fall is designed. Following standards from MTO Highway Drainage Design Standards (HDDS) and Gravity Pipe Design Guidelines (GPDG) are followed for the design of surface drainage systems within the corridor. Major and Minor Systems for Corridor Drainage will be designed and evaluated following MTO Highway Drainage Design Standards with roadway cross section design during the final design/construction phase.

Table 6.1 Summary of Corridor Drainage Criteria

Drainage System Type	Criteria	Functional Road Classifications	Value	References
Major System	Design Flow	Freeway	100-Year	SD-1, HDDS
	Design Flow	Depressed Roadways	100-Year	SD-7, HDDS
Side Storm Sewer	Design Service Life (DSL)	Freeway	75 years	GPDG

Through consultation with the Ministry of Transportation (MTO) Drainage, CH and CVC, the following SWM criteria applies to the 407 TWY corridor and stations.

Table 6.2 SWM Criteria

Control Objectives	Requirements
Quantity Control	For all watersheds within the jurisdiction of CVC, Post to Pre peak flow control for all return periods and regional storm are required
	CH did not specify water quantity control target for each watershed. Control targets from subwatershed studies and municipalities are followed.
Quality Control	Enhanced protection (Level-1) criteria to determine the minimum permanent pool size for wet pond facilities
	Table 3.2 of the Stormwater Management Planning and Design Manual (MOECC, 2003) Where applicable, water quality controls should be further informed by goals and objectives arising out of applicable subwatershed studies and source water protection plans.
Erosion Control	At minimum detain 5 mm on site where conditions do not warrant a detailed analysis
	For sites with SWM ponds, 25mm – 48hr detention may be required. A minimum of 12 hour detention is needed if site is limited by minimum orifice size.

6.2 METHODOLOGY

PCSWMM was used to assess the performance of drainage systems and SWM facilities as the hydrodynamic modelling scheme combines hydrology and hydraulic routing together to identify peak discharge and storage capacity requirements.

The Dynamic Wave routing method account for increased conveyance capacity when pipe is surcharged and allow analysis of piping networks. It is suitable and effective in SWM simulation.

6.3 PROPOSED CORRIDOR DRAINAGE STRATEGY

Open ditching is proposed along both sides of TWY 4 as Major System to accommodate surface runoff when capacity of Minor System is exceeded. Notably, 4 large storm trunks are proposed upstream of N01, BU02, BU04, and OW02. Storm trunks upstream of N01, BU02, and BU04 are running from the road low point to adjacent storm trunk crossings to provide gravity outlets for the depressed roadway. As the space along road sections west of Dundas St is limited by the existing 407 ETR ROW and adjacent residential developments, to reduce footprint of drainage system, Side Storm Sewer is proposed to accommodate the major system design flow as shown in **Table 6.3**. As storm trunk is utilized as drainage outlets for the side storm sewers, the conveyance capacity is evaluated together with external flow carried by the storm trunk to account for backwater effect. Storm trunk upstream of OW02 diverts external runoff upstream of TWY 4 corridor and provides a gravity outlet for the depressed roadway. As the storm trunk outlets to crossing OW03, the conveyance capacity is evaluated with head water level in design return period to account for backwater effects.

Table 6.3 Results of Underground Storm Pipe Capacity Analysis

Outlet Location	Drainage Area (ha)	Invert Elevation U/S Node (m)	Invert Elevation D/S Node (m)	Pipe Length (m)	Slope (%)	Pipe Roughness (Manning's n)	Pipe Diameter (m)	Pipe Capacity (m ³ /s)	1 in 100-year Flow Rate (m ³ /s)
N01	6.858	116.200	115.00	541	0.22%	0.013	1200	1.84	1.17
BU02	2.449	155.902	153.45	145	1.69%	0.013	750	1.45	0.62
BU04	5.594	154.380	152.96	250	0.57%	0.013	750	0.84	0.07
OW02	3.604	155.400	155.00	350	0.11%	0.013	1650	3.08	3.35

Notably, the storm trunk at crossing BU04 is surcharged during the 1 in 100-year design storm. Therefore, the 1 in 100-year release from the TWY 4 corridor is limited by the downstream hydraulic condition in the piping system and is largely attenuated from the peak runoff. Further hydraulic grade line (HGL) analysis confirms the surcharging depth is 1 m below the ground elevation at the road sag, indicating the flooding risk is minimized.

6.4 PROPOSED STORMWATER MANAGEMENT STRATEGY

The stormwater management strategy proposed for the 407 TWY corridor is to implement enhanced swales. The strategy is proposed in previous 407 TWY studies and is an accepted mitigation solution. The stormwater management for transit stations was achieved by a combination of wet ponds and Low Impact Development (LID) features.

6.4.1 407 Transitway Corridor

The proposed SWM plan for TWY 4 corridor utilizes enhanced swales at locations where feasible to provide quality and quantify control to runoff. The total increase in pavement area associated with the proposed Transitway development is approximately 42 ha as summarized in **Table 6.4**. For all subcatchments less than 5 ha, a treatment train approach instead of wet ponds was proposed. The design consists of grassed embankments to promote sheet flow, grassed swales on both sides of the 407 TWY and enhanced grassed swales/dry ponds located before each outlet from the 407 TWY. The drainage strategy of the 407 TWY sub-areas including increase in pavement areas and treatment types are summarize in **Table 6.4**. Notably, pavement area in enclosed section is not included for treatment.

Table 6.4 Summary of Pavement Areas and Treatment Type

Catchment ID	Creek Name	ROW Area (ha)	New Imp. Area (ha)	Quality Treatment Protection Level	Treatment Type
N01	Rambo to Hager Creek Realignment	6.86	3.43	Enhanced (Level 1)	Enhanced Swale
BU02	Tuck Creek	2.45	1.22	Enhanced (Level 1)	Enhanced Swale
BU04	Tuck Creek	5.59	1.12	Enhanced (Level 1)	Enhanced Swale
BU05	Shoreacres Creek	2.80	0.56	Enhanced (Level 1)	Enhanced Swale
BU06	Shoreacres Creek	1.80	0.36	Enhanced (Level 1)	Enhanced Swale
BU07	Shoreacres Creek	3.20	0.64	Enhanced (Level 1)	Enhanced Swale
BU08	Appleby Creek	2.40	0.48	Enhanced (Level 1)	Enhanced Swale
BU09	Appleby Creek	2.40	0.48	Enhanced (Level 1)	Enhanced Swale
BU10	Sheldon Creek	4.79	0.96	Enhanced (Level 1)	Enhanced Swale
BU11	Sheldon Creek	1.78	0.36	Enhanced (Level 1)	Enhanced Swale
BR02	Bronte Creek	13.27	2.65	Enhanced (Level 1)	Enhanced Swale
OW01	Fourteen Mile Creek	1.77	0.35	Enhanced (Level 1)	Enhanced Swale
OW02	Fourteen Mile Creek	3.60	0.72	Enhanced (Level 1)	Enhanced Swale
OW04	Fourteen Mile Creek	3.00	0.60	Enhanced (Level 1)	Enhanced Swale
OW05	Fourteen Mile Creek	1.48	0.30	Enhanced (Level 1)	Enhanced Swale
OW06	Fourteen Mile Creek	1.94	0.39	Enhanced (Level 1)	Enhanced Swale
OW07	Fourteen Mile Creek	4.98	1.00	Enhanced (Level 1)	Enhanced Swale
OW11	Fourteen Mile Creek	7.79	1.56	Enhanced (Level 1)	Enhanced Swale
S02	Sixteen Mile Creek	24.58	4.92	Enhanced (Level 1)	Enhanced Swale
S03	Sixteen Mile Creek	14.44	2.89	Enhanced (Level 1)	Enhanced Swale
OE01	Joshua Creek	3.79	0.76	Enhanced (Level 1)	Enhanced Swale
OE02	Joshua Creek	2.14	0.43	Enhanced (Level 1)	Enhanced Swale
OE03	Joshua Creek	2.14	0.43	Enhanced (Level 1)	Enhanced Swale
OE04	Joshua Creek	1.32	0.26	Enhanced (Level 1)	Enhanced Swale
OE05	Joshua Creek	1.41	0.28	Enhanced (Level 1)	Enhanced Swale
S-E01	Sixteen Mile Creek	13.78	2.76	Enhanced (Level 1)	Enhanced Swale
S-E03	Sixteen Mile Creek	19.22	3.84	Enhanced (Level 1)	Enhanced Swale
M01	Mullet Creek	8.42	1.68	Enhanced (Level 1)	Enhanced Swale
L01	Levi Creek	12.00	2.40	Enhanced (Level 1)	Enhanced Swale
NP01	Credit River	19.25	3.85	Enhanced (Level 1)	Enhanced Swale
F03	Fletcher's Creek	3.70	0.74	Enhanced (Level 1)	Enhanced Swale
Total		198.09	42.41		

6.4.1.1 PROPOSED ENHANCED SWALE DESIGN

Grassed swales were proposed along the entire length of the 407 TWY 4 with longitudinal slope consistent with road profile slopes to minimum earthwork. As a result, enhanced swales could not be incorporated with grassed sales along road segments with steep slopes. Proposed Alternatives include relocate the enhanced swale around the low points of the road segments and utilize narrower grassed swales for conveyance.

The proposed grass swales would cover approximately 50 m length and are designed to have a trapezoidal cross-section, flat bottom (1 m wide), 3:1 side slopes and a depth of 1.5 m. A longitudinal slope of maximum 0.2% is proposed for all swales to provide settlement of sediment and to reduce flow velocities from upstream segment. To increase the time of flow in the swales and to promote infiltration at the same time, two cells are proposed with a 0.5 m layer of clear stone covered by 0.3 m of topsoil below the invert of the swale. The enhanced swales were designed in a form of dry ponds with a formal outlet control structure to provide quality and quantity control for 407 TWY sub-areas. The outlet is comprised of a 100-mm perforated pipe proposed to be installed at the bottom of each swale that is further connected to a hickenbottom structure equipped with a 75-mm orifice plate.

The maximum volume that can be stored in an enhanced swale is calculated to be 412.5 m³. The controlled discharge rate from the swale was calculated to be 0.015 m³/s using the orifice equation (75 mm diameter). For modelling purposes, it is considered that the swale volume used is maximized, and the maximum discharge would be 0.015 m³/s. This approach is conservative since the minimum allowable orifice is used more storage than required is provided. MTO or the 407 Transitway operator will be responsible for the Long term maintenance of the SWM ponds and LIDs following MECP Stormwater Management and Design Manual.

Together with Stormwater Quality Control Measures, operation of the Transitway will incorporate the use of best practices for the application of road salt on provincial roads following Halton Region and Hamilton Region Source Protection Plan Policy T-36-S. Hydrological impacts will be mitigated to protect sensitive hydrologic features within the watershed through the implementation of enhanced swale for the main corridor.

6.4.1.2 QUANTITY CONTROL

Based on the quantity control requirements summarized in **Table 6.2**, Planning level LID sizing was undertaken within the project limits to identify the dimensions of each unit and ponding depth needed. Both pre-development and post-development scenarios were evaluated and compared against the SWM criteria. The external drainage area was excluded from LID sizing practice as it does not need to be treated with stormwater quality and quantity control facilities. The external areas need to be accounted for at later stages to size the conveyance ditching system. PCSWMM modelling was conducted to demonstrate the performance of mitigation measures. **Table 6.5** shows the results of the hydrologic analysis for 1 in 100-year storm. The results indicate that no increases are expected within the project limits.

Table 6.5 Summary of Post-Development Discharge in 1 in 100-year Storm

Culvert ID	Pre-Development Peak Runoff (m ³ /s)	Uncontrolled Post-development Runoff (m ³ /s)	Controlled Post-development Runoff (m ³ /s)
N01	0.09	1.25	0.08
BU02	0.08	0.62	0.07
BU04	0.09	0.63	0.09
BU05	0.08	0.37	0.08
BU06	0.08	0.27	0.07
BU07	0.08	0.41	0.08
BU08	0.08	0.33	0.08
BU09	0.08	0.33	0.08
BU10	0.09	0.56	0.08
BU11	0.08	0.27	0.07
BR02	0.1	1.14	0.09
OW01	0.08	0.26	0.07
OW02	0.09	0.45	0.08
OW04	0.08	0.39	0.08
OW05	0.08	0.23	0.07
OW06	0.08	0.28	0.08
OW07	0.09	0.58	0.08
OW11	0.09	0.8	0.09
S02	0.37	1.61	0.10
S03	0.34	1.20	0.09
OE01	0.09	0.47	0.08
OE02	0.08	0.3	0.08
OE03	0.08	0.3	0.08
OE04	0.08	0.22	0.07
OE05	0.08	0.22	0.07
S-E01	0.1	1.16	0.09
S-E03	0.1	1.41	0.1
M01	0.09	0.84	0.09
L01	0.1	1.07	0.09
NPO1	0.1	1.41	0.1
F03	0.09	0.46	0.08

6.4.1.3 ENCLOSED LOW POINTS AND PUMPING

Underpass and tunnel structures are proposed at several locations where the transitway is depressed or enclosed. In 5 of these locations the alignment dips below the existing roadway to meet clearance criteria and thus creates a low point at which roadway drainage will converge. The treatment methodology using enhanced swales cannot be incorporated at these low points since they are enclosed and below ground. These locations were analysed to discern the feasibility of gravity drainage solutions. Pumping is proposed in cases where roadway drainage cannot be conveyed to an outlet by gravity only.

Table 6.6 summarizes the enclosed transitway low points.

Table 6.6 Enclosed Transitway Low Points Potential Discharge Locations

Structure Locations	Station	TWY Elevation	Gravity Outlet	Pumping Required	Pumping Outlet
Guelph Ln	15+400	157.8	BU02	No	
Dundas St.	16+500	155.3	BU04	No	
Appleby Ln	20+450	154.9	BR02	No	
407/403 Interchange	36+000	185.2	-	Yes	Lisgar SWM Facility Outlet
401/407 Interchange	45+000	155.4	-	Yes	Sawmill Creek

As shown in **Table 6.6**, the Dundas St Underpass could be drained to an adjacent storm trunk pipe in Tuck Creek watershed. The Appleby Ln Underpass could be drained to the adjacent Bronte Creek through large storm trunk. The other 2 low points need to be discharged through pumping as they are around 30 m below the ground, where creek elevation on the surface is much higher. Sump pumps at the portal area are needed to intercept stormwater runoff spilling into the tunnel and minimize contributing drainage areas to the tunnel low point. The pumping required for those 2 low points are to accommodate seepage water rather than stormwater runoff.

6.4.2 Proposed 407 TWY Stations

Eight transit stations are proposed along the 407 TWY 4 including Dundas St., Appleby Ln, Bronte Rd, Trafalgar Rd, Britannia Rd, Derry Rd, Lisgar, and Mississauga Rd. The station layouts include vehicular and pedestrian access, PPUDO facilities, bus lay bay facilities, on-street integration with local transit, shelters, buildings, and other amenities. Majority of the transit stations are controlled by wet ponds to achieve SWM objectives as the imperviousness is relatively high. Dry ponds are designed for Lisgar, Appleby Ln and Bronte Rd Stations as the drainage area is too small to sustain the permeant pool volume.

In addition to control targets clarified in the SWM design criteria, goals and objectives arising from subwatershed studies and source water protection plans also apply to the design of transit stations. **Table 6.7** lists the assumptions and applicable subwatershed studies for the SWM design.

Table 6.7 Applicable Subwatershed Studies and Design Assumptions

TWY 4 Stations	Watershed	Guiding Documents	New Imp. Area (ha)	Design Storm Distribution	IDF Ref.	Quality Treatment Protection Level	SWM Type
Mississauga Rd	Levi Creek	CVC SWM Design Criteria	4.18	12 hr SCS II	City of Mississauga	Enhanced (Level 1)	Wet Pond
Lisgar	Sixteen Mile Creek	9th Line Subwatershed Study	0.65	12 hr SCS II	City of Mississauga	Enhanced (Level 1)	Dry Swale
Derry Rd	Sixteen Mile Creek	9th Line Subwatershed Study	3.48	12 hr SCS II	City of Mississauga	Enhanced (Level 1)	Wet Pond
Britannia Rd	Sixteen Mile Creek	9th Line Subwatershed Study	2.34	12 hr SCS II	City of Mississauga	Enhanced (Level 1)	Wet Pond
Trafalgar Rd	Joshua Creek	North Oakville Creek Subwatershed Study	4.16	24 hr Chicago	Town of Oakville	Enhanced (Level 1)	Wet Pond
Bronte Rd	Fourteen Mile Creek	North Oakville Creek Subwatershed Study	2.06	24 hr Chicago	Town of Oakville	Enhanced (Level 1)	Dry Pond
Appleby Ln	Sheldon Creek	City of Burlington	1.85	24 hr SCS II	City of Burlington	Enhanced (Level 1)	Dry Pond
Dundas St	Shoreacres Creek	City of Burlington	3.83	24 hr SCS II	City of Burlington	Enhanced (Level 1)	Wet Pond

6.4.2.1 MISSISSAUGA ROAD STATION

Mississauga Rd Station is located at the northwest quadrant of Mississauga Rd/ 407 interchange on the vacant land between the Hereford St and 407 ETR. The project site is in the subwatershed of Levi Creek. A culvert crossing 407 ETR ramp provides drainage outlet for this area to the ETR north road ditch. The existing drainage pattern of the project site is mainly eastwards to the culvert inlet through sheetflow.

Since no subwatershed study was found to set out the SWM control targets for the project site, CVC SWM design criteria and MTO SWM requirements for land development proposals were followed as the site is in subwatersheds under the jurisdiction of CVC and discharges to 407 ETR drainage system owned by MTO. Situated immediately north of 407 ETR, Mississauga Rd Station has a total site area of 5.58 ha, consisting of parking areas and a transit station platform on the north side and a wet pond on the south side that outlets to 407 ETR north ditch at 187 m. **Table 6.8** lists the detailed break down of drainage areas and the impervious ratio.

Table 6.8 Proposed Catchment Details – Mississauga Rd Station

SC ID	Area (ha)	Imp. (%)
Mississauga Parking and Station Platform	4.40	95
Mississauga Pond	1.18	75
Total Pond Drainage Area	5.58	90.8

Table 6.9 lists the Stage-Storage curve of the wet pond proposed to control the post-development runoff. Details of outlet control devices are also included.

Table 6.9 Stage-Storage Table for Mississauga Rd SWM Pond

Elevation (m)	Area (m ²)	Volume (m ³)	Volume Required (m ³)	Volume Provided (m ³)	Note
186.0	600	0	0	0	BTM
186.8	1800	917			Forebay Berm
187.0	2300	1326	1048	1326	NWL-D100 Orifice
187.3	2500	2309			30° V-Notch Weir
188.5	5300	6504			HWL
188.8	5800	8112			Freeboard

As shown in **Table 6.9**, minimum orifice size was used for controlled release of extended detention volume. A rectangular weir is selected for water quantity control as the rating curve simulates the pre-development discharge characteristics better. The post-development discharge for selected return periods are shown in **Table 6.10**. Site plans and details of outfall and outlet control structures are included in **Appendix G**.

Table 6.10 Comparison of Pre-Development and Post-Development Release Rate - Mississauga Rd Station

Return Period	Depth (m)	Pre-Development Peak Runoff (m ³ /s)	Uncontrolled Discharge (m ³ /s)	Controlled Discharge (m ³ /s)
2 Year	1.53	0	0.582	0.018
5 Year	1.77	0.02	1.082	0.059
10 Year	1.77	0.04	1.082	0.059
25 Year	1.85	0.06	1.277	0.083
50 Year	1.92	0.09	1.46	0.111
100 Year	1.99	0.12	1.656	0.144
Regional	2.47	0.41	0.803	0.513

6.4.2.2 LISGAR STATION

Lisgar Station is located at the northwest quadrant of Tenth Line/GO Railway intersection immediately to the west of the existing Lisgar GO Station. The project site and adjacent lands is in the headwater areas of Sixteen Mile Creek. A minor drainage channel running along the west of project site within the existing Hydro corridor provides drainage outlet for this area. The existing drainage pattern of the project site is mainly westwards to the drainage channel through sheetflow.

Ninth Line Lands Scoped Subwatershed Study completed in March 2017 has identified the SWM strategy and implementation plan for the project site and its surrounding areas. Unitary SWM facility sizing criteria and maximum allowable release rates for selected return periods were extracted from the previous subwatershed study and applied to the proposed development to identify SWM volume and peak discharge control requirements. SWM facility sizing criteria for future development is listed in **Table 6.11**.

Table 6.11 SWM Facility Sizing Criteria – Lisgar Station

Quantity Component	Cumulative Unitary Volume (m ³ /impervious ha)	Unitary Discharge (m ³ /s/ha)*	Required Volume (m ³)	Maximum Allowable Release (m ³ /s)
Erosion	275	0.002	229	0.002
2 Year	450	0.011	374	0.011
5 Year	600	0.017	499	0.016
100 Year	875	0.055	727	0.053
Regional Storm	1775	0.110	1475	0.107

*based on *Ninth Line Lands Scoped Subwatershed Study 2014* VO model results

Situated south of the TWY 4 corridor, Lisgar Station expansion adds a total drainage area of 0.96 ha to be controlled by a SWM facility. The existing GO transit station is not modified and the existing drainage pattern and uncontrolled discharge is maintained. The total drainage areas to be controlled in post-development condition is less than the minimum drainage areas required for a wet pond. Therefore, a dry swale/dry pond is selected to control the post-development runoff. The SWM facility is at the west side of the site which outlets to the drainage channel at 206 m.

The surrounding undeveloped land does not drain towards the project site. However, a curb cut outlet from the parking areas of existing GO transit station is to be diverted through concrete gutter and discharged to the drainage channel. **Table 6.12** lists the detailed break down of drainage areas and the impervious ratio.

Table 6.12 Proposed Catchment Details – Lisgar Station

SC ID	Area (ha)	Imp. (%)
Lisgar Parking	0.65	100
Lisgar Pond	0.31	5
Total Pond Drainage Area	0.96	69.5

The dry swale is 15 m wide and 180 m long on the west side of the expansion, consisting of a perforated drain for controlled release and a weir outlet for emergency spill during storm event above 100-year. The stage release relationship is shown in **Table 6.13**. The site plan and details are shown in **Appendix G**.

Table 6.13 Comparison of Pre-Development and Post-Development Release Rate – Lisgar Station

Return Period	Pre-Development Peak Runoff (m ³ /s)	Uncontrolled Discharge (m ³ /s)	Controlled Discharge (m ³ /s)
2 Year	0	0.090	0.010
5 Year	0.01	0.150	0.020
10 Year	0.02	0.150	0.020
25 Year	0.02	0.180	0.020
50 Year	0.03	0.200	0.020
100 Year	0.05	0.220	0.020

6.4.2.3 DERRY ROAD STATION

Derry Rd Station is located at the northeast quadrant of 407/Derry Rd intersection. A creek is running on the west side of the station conveying flow from north to south to a culvert crossing under Derry Road. The surrounding land is mainly undeveloped and subject to future development. The existing drainage pattern of the project site and adjacent lands is mainly westwards to the creek through sheet flow.

Ninth Line Lands Scoped Subwatershed Study completed in March 2017 has identified the SWM strategy and implementation plan for the project site and its surrounding areas. The existing creek is to be realigned to the west to free up more developable lands and the proposed TWY 4 embankment is to berm around the realigned creek providing sufficient floodplain storage while protecting future development areas east of the corridor from flooding. SWM facility sizing criteria for future development is listed in **Table 6.14**.

Table 6.14 SWM Facility Sizing Criteria – Derry Rd Station

Quantity Component	Cumulative Unitary Volume (m ³ /impervious ha)	Unitary Discharge (m ³ /s/ha)*	Required Volume (m ³)	Maximum Allowable Release (m ³ /s)
Erosion	275	0.002	1076	0.009
2 Year	450	0.007	1761	0.032
5 Year	600	0.019	2348	0.087
100 Year	875	0.058	3424	0.265
Regional Storm	1775	0.107	6946	0.489

*based on *Ninth Line Lands Scoped Subwatershed Study 2014 VO* model results

Situated east of the TWY 4 corridor, Derry Rd Station has a total site area of 4.1 ha. The site mainly consists of 2 large parking areas on the east side adjacent to 9th Line and bus lay bay and PPUDO facilities on the west side adjacent to the TWY 4 corridor. The SWM pond is at the southwest corner of the site where drainage outlet is provided by a culvert crossing TWY 4 at 199 m.

2 external drainage areas need to be managed during the development of Derry Rd Station. Runoff from the adjacent lands north of the site is to be diverted to the west of TWY 4 by a culvert crossing the proposed corridor as the existing ground elevation of 199m at land low point does not allow sufficient grades to drain to the outlet of Derry Rd Station SWM Pond. Notably, the invert of the culvert is below regional flood elevation, indicating a backflow preventor needs to be installed. Runoff from areas south of Derry Rd Station are proposed to flow through the SWM pond without treatment as it is not disturbed during construction and pre-development condition could be maintained after construction. **Table 6.15** lists the detailed break down of drainage areas and the impervious ratio.

Table 6.15 Proposed Catchment Details – Derry Rd Station

SC ID	Area (ha)	Imp. (%)
External Catchments Diverted		
Derry Ext N	10.86	5
SWM Pond Drainage Areas		
Derry Ext S	0.48	5
Derry Parking 1	1.42	100
Derry Parking 2	0.92	100
Derry Bus Bay	1.21	95
Derry Pond	0.55	75
Total Pond Drainage Area	4.57	85.7

A wet pond is proposed to treat and control the post-development runoff from the project site as the site has high impervious ratio to sustain the permanent pool volume. As shown in **Table 6.15**, the overall impervious ratio over total drainage area to the SWM pond is as high as 85.7%. The permanent pool volume could be sustained by high runoff generation resulted from the high imperviousness. The Stage-Storage relationship is listed in **Table 6.16**.

Table 6.16 Stage-Storage Table for Derry Rd SWM Pond

Elevation (m)	Area (m ²)	Volume (m ³)	Volume Required (m ³)	Volume Provided* (m ³)	Note
198.0	500	0	0	0	BTM
198.8	1200	660			Forebay Berm
199.0	1500	929	985	929	NWL-D100 Orifice
199.6	2000	1943	1076	1014	0.2m Weir
200.5	3300	4304	3424	3374	HWL
200.8	3500	5323			Freeboard

As shown in **Table 6.16**, minimum orifice size was used for controlled release of extended detention volume. A rectangular weir is selected for water quantity control as the rating curve simulates the pre-development discharge characteristics better. The post-development discharge for selected return periods are shown in **Table 6.17**. Site plans and details of outfall and outlet control structures are included in **Appendix G**.

Table 6.17 Comparison of Pre-Development and Post-Development Release Rate – Derry Rd Station

Return Period	Depth (m)	Pre-Development Peak Runoff (m ³ /s)	Uncontrolled Discharge (m ³ /s)	Controlled Discharge (m ³ /s)
2 Year	1.61	0.01	0.560	0.018
5 Year	1.89	0.04	0.975	0.072
10 Year	1.89	0.09	0.975	0.072
25 Year	1.98	0.15	1.132	0.101
50 Year	2.06	0.20	1.278	0.129
100 Year	2.14	0.27	1.434	0.160

6.4.2.4 BRITANNIA ROAD STATION

Britannia Rd Station is located at the southeast quadrant of 407/Britannia Rd intersection. A creek is running on the west side of the station conveying runoff from north to south to a bridge crossing 407 ETR. The surrounding land is mainly undeveloped and subject to future development. The existing drainage pattern of the project site and adjacent lands is mainly westwards to the creek through sheet flow.

The SWM strategy identified in *Ninth Line Lands Scoped Subwatershed Study* completed in March 2017 could not be applied to the project site and its surrounding areas, as the downstream conditions of receiving stormwater system would change in future. Therefore, this SWM design aims to follow the SWM strategy identified in the 2017 subwatershed study with an assumption that the downstream condition could be improved to support the operation of the SWM Pond. Further consultation with CH would be carried out to clarify the downstream conditions and SWM requirements. The tentative SWM sizing criteria is listed in **Table 6.18**.

Table 6.18 SWM Facility Sizing Criteria – Britannia Rd Station

Quantity Component	Cumulative Unitary Volume (m ³ /impervious ha)	Unitary Discharge (m ³ /s/ha)*	Required Volume (m ³)	Maximum Allowable Release (m ³ /s)
Erosion	275	0.002	761	0.006
2 Year	450	0.004	1246	0.012
5 Year	600	0.011	1661	0.033
100 Year	875	0.037	2422	0.110
Regional Storm	1775	0.106	4914	0.314

*based on *Ninth Line Lands Scoped Subwatershed Study 2014 VO* model results

Situated east of the TWY 4 corridor, Britannia Rd Station has a total site area of 2.97 ha. The site mainly consists of 2 small parking areas and bus lay bay and PPUDO facilities situated from south to north. The SWM pond is at south end of the site where it outlets at 188.5 m to the east ditch of TWY 4.

The external drainage areas between the station and Britannia Road need to be managed by ditching along east side of TWY 4 from south to north to divert runoff from flowing towards the site. **Table 6.19** lists the detailed break down of drainage areas and the impervious ratio.

Table 6.19 Proposed Catchment Details – Britannia Rd Station

SC ID	Area (ha)	Imp. (%)
External Catchments Diverted		
Britannia Ext	1.28	5
SWM Pond Drainage Areas		
Britannia Parking 1	1.08	95
Britannia Parking 2 and Bus Bay	1.31	100
Britannia Pond	0.57	75
Total Pond Drainage Area	2.97	93.4

A wet pond is proposed to treat and control the post-development runoff from the project site as the site has high impervious ratio to sustain the permanent pool volume. As shown in **Table 6.19**, the overall impervious ratio over total drainage area to the SWM pond is as high as 93.4%. The permeant pool volume could be sustained by high runoff generation resulted from the high imperviousness. The Stage-Storage relationship is listed in **Table 6.20**, together with types and sizes of discharge control devices. Site plans and detailed drawings of outfall and outlet control structures are included in **Appendix G**.

Table 6.20 Stage-Storage Table for Britannia Rd SWM Pond

Elevation (m)	Area (m ²)	Volume (m ³)	Volume Required (m ³)	Volume Provided* (m ³)	Note
187.5	250	0	0	0	BTM
188.3	900	433			Forebay Berm
188.5	1100	633	664	633	NWL-D75 Orifice
188.51	2100	649			Platform
188.8	2700	1367	761	734	45° V-Notch Weir
189.5	3500	3531	2422	2882	HWL
189.8	4100	4631			Freeboard

As shown in **Table 6.21**, minimum orifice size was used for controlled release of extended detention volume. A V-notch weir is selected for water quantity control as the rating curve simulates the pre-development discharge characteristics better. The total active storage depth including depth of extended detention volume is 1 m. The post-development discharge for selected return periods are shown in **Table 6.21**. Site plans and details of outfall and outlet control structures are included in **Appendix G**.

Table 6.21 Comparison of Pre-Development and Post-Development Release Rate – Britannia Rd Station

Return Period	Depth (m)	Pre-Development Peak Runoff (m ³ /s)	Uncontrolled Discharge (m ³ /s)	Controlled Discharge (m ³ /s)
2 Year	1.35	0	0.396	0.008
5 Year	1.52	0.01	0.686	0.025
10 Year	1.52	0.03	0.686	0.025
25 Year	1.58	0.05	0.795	0.038
50 Year	1.63	0.07	0.897	0.052
100 Year	1.68	0.09	1.005	0.071

6.4.2.5 TRAFALGAR ROAD STATION

Trafalgar Rd Station is located at the southwest quadrant of 407/Trafalgar Rd intersection adjacent to an existing GO transit station. The site is in the headwater areas of Joshua Creek watershed, which is covered in the *North Oakville Creek Subwatershed Study* completed in 2006. The existing drainage pattern of the project site and adjacent lands is mainly eastwards to the main branch of Joshua Creek through sheet flow.

No SWM storage volume requirements were identified in the 2006 subwatershed study. However, post-development flow control target was set for the project site and its adjacent lands. The project site is in a study subcatchment named JC7 with a total drainage area of 99 ha in the subwatershed study. Therefore, the maximum allowable discharge could be calculated on a unit flow basis derived from the subwatershed study as shown in **Table 6.22**.

Table 6.22 SWM Facility Sizing Criteria – Trafalgar Rd Station

Return Period	Flow Control Target (m ³ /s)	Unit Flow (L/s/ha)	Maximum Allowable Discharge (m ³ /s)
2 Year	0.73	7.4	0.041
5 Year	1.15	11.6	0.064
10 Year	1.38	13.9	0.077
25 Year	1.75	17.7	0.098
50 Year	1.99	20.1	0.111
100 Year	2.24	22.6	0.125
Regional	5.33	53.8	0.298

Situated west of Trafalgar Rd, the proposed station adds more pavement areas from constructing additional parking and a bus access road, which is to be controlled by a SWM pond. Notably, the pavement areas within the existing GO transit station would not be controlled. **Table 6.23** lists the detailed break down of drainage areas and the impervious ratio.

Table 6.23 Proposed Catchment Details – Trafalgar Rd Station

SC ID	Area (ha)	Imp. (%)
Existing Development Not Controlled		
Trafalgar Existing Parking	3.36	95
SWM Pond Drainage Areas		
Trafalgar Prop Parking	3.38	100
Trafalgar Access Road	0.82	95
Trafalgar Pond	1.35	75
Total Pond Drainage Area	5.55	93.2

A wet pond is proposed to treat and control the post-development runoff from the project site. The pond outlets to a ditch at 190.5 m along the entrance road of existing station to connect to the Trafalgar Rd ditch at 186.5 m. The Stage-Storage relationship is listed in **Table 6.24**, together with types and sizes of discharge control devices. Site plans and detailed drawings of outfall and outlet control structures are included in **Appendix G**.

Table 6.24 Stage-Storage Table for Trafalgar Rd SWM Pond

Elevation (m)	Area (m ²)	Volume (m ³)	Volume Required (m ³)	Volume Provided (m ³)	Note
189.5	1000	0	0	0	BTM
190.3	2200	1249			Forebay Berm
190.5	3000	1767	1278	1767	NWL - D100 Orifice
190.7	4500	2542			45° V-Notch Weir
191.3	5900	5652		3885	HWL - 100-year
191.6	6400	7435			Freeboard

The post-development discharge for selected return periods are shown in **Table 6.25**. Site plans and details of outfall and outlet control structures are included in **Appendix G**.

Table 6.25 Comparison of Pre-Development and Post-Development Release Rate – Trafalgar Rd Station

Return Period	Depth (m)	Pre-Development Peak Runoff (m ³ /s)	Uncontrolled Discharge (m ³ /s)	Controlled Discharge (m ³ /s)
2 Year	1.40	0.01	1.018	0.025
5 Year	1.55	0.05	1.797	0.065
10 Year	1.55	0.09	1.797	0.065
25 Year	1.62	0.14	2.210	0.096
50 Year	1.67	0.19	2.513	0.12
100 Year	1.72	0.24	2.800	0.149

6.4.2.6 BRONTE ROAD STATION

Bronte Rd Station is located in the northeast quadrant of 407/Bronte Rd intersection adjacent to a main branch of Fourteen Mile Creek. The development area is covered in *North Oakville Creek Subwatershed Study*. The existing drainage pattern of the project site and adjacent lands is mainly eastwards to the adjacent creek through sheet flow.

No SWM storage volume requirements were identified in the 2006 subwatershed study. However, post-development flow control target was set for the project site and adjacent lands. The project site is in a study subcatchment named FM1111 with a total drainage area of 99.65 ha. The difference in flow control targets between upstream and downstream outlets is used to calculate the unit flow rate. The maximum allowable discharge could be calculated on a unit flow basis derived from the subwatershed study as shown in **Table 6.26**.

Table 6.26 SWM Facility Sizing Criteria – Bronte Rd Station

Return Period	Upstream Flow Control Target (m ³ /s)	Downstream Flow Control Target (m ³ /s)	Flow Control Target for (m ³ /s)	Unit Flow (L/s/sha)	Maximum Allowable Discharge (m ³ /s)
2 Year	0.82	1.36	0.54	5.4	0.014
5 Year	1.31	2.23	0.92	9.2	0.024
10 Year	1.59	2.75	1.16	11.6	0.030
25 Year	2.04	3.54	1.50	15.1	0.038
50 Year	2.32	4.07	1.75	17.6	0.045
100 Year	2.63	4.63	2.00	20.1	0.051
Regional	6.78	11.96	5.18	52.0	0.132

Situated between the creek and 407 ETR, the project site is adjacent to a floodplain area regulated by CH. No external catchment needs to be accommodated. **Table 6.27** lists the detailed break down of drainage areas and the impervious ratio.

Table 6.27 Proposed Catchment Details Bronte Rd Station

SC ID	Area (ha)	Imp. (%)
Bronte Parking 1	2.06	100
Bronte Pond	0.49	5
Total Pond Drainage Area	2.55	81.7

A dry pond is proposed to treat and control the post-development runoff from the project site as the site is small with relatively low impervious ratio. The permanent pool volume could not be sustained with low runoff generation potential and the orifice size needed to achieve 12 hour detention is less than minimum size allowed. A dry pond with perforated pipe is better suited to provide post-development water quality and quantity control.

The dry pond is on the south side of the site, consisting of a perforated drain for controlled release and a weir outlet for emergency spill during storm event above 100-year. The post-development discharge for selected return periods are shown in **Table 6.28**. Site plans and details of outfall and outlet control structures are included in **Appendix G**.

Table 6.28 Comparison of Pre-Development and Post-Development Release Rate – Bronte Rd Station

Return Period	Depth (m)	Pre-Development Peak Runoff (m ³ /s)	Uncontrolled Discharge (m ³ /s)	Controlled Discharge (m ³ /s)
2 Year	0.27	0	0.134	0.006
5 Year	0.46	0.02	0.291	0.008
10 Year	0.46	0.04	0.291	0.008
25 Year	0.55	0.06	0.385	0.01
50 Year	0.60	0.09	0.455	0.015
100 Year	0.65	0.11	0.526	0.024

6.4.2.7 APPLEBY LINE STATION

Appleby Ln Station is located in the northwest quadrant of 407/Appleby Ln intersection in the headwater areas of Sheldon Creek. The existing drainage pattern of the project site and adjacent lands is mainly eastwards to the adjacent creek through sheet flow. No existing subwatershed study that identifies the SWM strategy for the drainage area was found. The SWM requirements from MECP and City of Burlington are followed.

Situated between the TWY 4 corridor and 407 ETR, the project site has a total area of 2.55 ha. **Table 6.29** lists the detailed break down of drainage areas and the impervious ratio. As the total drainage area is less than 5 ha. A dry swale is selected to manage the post-development runoff. During the final design/construction phase, combining runoff from TWY4 ROW and transit stations will be considered where feasible without changing predevelopment boundaries to sustain permanent pool.

Table 6.29 Proposed Catchment Details – Appleby Ln Station

SC ID	Area (ha)	Imp. (%)
Appleby Parking	1.31	100
Appleby Pond	0.68	5
Appleby Bus Bay	0.56	95
Total Pond Drainage Area	2.55	73.6

The dry pond outlets to the existing culvert crossing under 407 ETR at 163 m. Site plans and detailed drawings of outfall and outlet control structures are included in **Appendix G**.

Table 6.30 Comparison of Pre-Development and Post-Development Release Rate – Appleby Ln Station

Return Period	Depth (m)	Pre-Development Peak Runoff (m ³ /s)	Uncontrolled Discharge (m ³ /s)	Controlled Discharge (m ³ /s)
2 Year	0.37	0.02	0.308	0.007
5 Year	0.58	0.07	0.500	0.009
10 Year	0.58	0.12	0.500	0.009
25 Year	0.69	0.19	0.599	0.010
50 Year	0.77	0.25	0.674	0.011
100 Year	0.84	0.30	0.745	0.011

6.4.2.8 DUNDAS STREET STATION

Dundas St Station is located between Dundas Street and 407 ETR, overlapping an existing watercourse corridor of Shoreacres Creek. No existing subwatershed study that identifies the SWM strategy for the drainage area was found. The SWM requirements from MECP and City of Burlington are followed.

Situated between the TWY 4 corridor and Dundas Street, the project site has a total drainage area of 6.17 ha. The existing creek is to be realigned to the south and bypasses the project site. An undeveloped area north of the site that naturally drains towards the project site needs to be accommodated. **Table 6.31** lists the detailed break down of drainage areas and the impervious ratio.

Table 6.31 Proposed Catchment Details – Dundas Street Station

SC ID	Area (ha)	Imp. (%)
Dundas External	1.31	5
Dundas Pond	0.83	75
Dundas Parking	4.03	95
Total Pond Drainage Area	6.17	73.1

A wet pond is proposed to control the post-development runoff from the project site. The Stage-Storage relationship and description of outlet control devices is listed in **Table 6.32**.

Table 6.32 Stage-Storage Table for Dundas St SWM Pond

Elevation (m)	Area (m ²)	Volume (m ³)	Volume Provided (m ³)	Note
154.0	700	0	0	BTM
154.8	1500	860		Forebay Berm
155.0	1700	1180	1118	NWL-D100 Orifice
155.0	3100	1203		Platform
155.3	3600	2207		0.25m-Weir
156.0	4700	5104	3928	HWL - 100-year
156.3	5400	6567		Freeboard

The wet pond is on the south side of the site, where it outlets to the existing watercourse at 155 m. The post-development discharge for selected return periods are shown in **Table 6.33**. Site plans and details of outfall and outlet control structures are included in **Appendix G**.

Table 6.33 Comparison of Pre-Development and Post-Development Release Rate – Dundas St Station

Return Period	Depth (m)	Pre-Development Peak Runoff (m ³ /s)	Uncontrolled Discharge (m ³ /s)	Controlled Discharge (m ³ /s)
2 Year	1.43	0.01	0.720	0.031
5 Year	1.55	0.04	1.227	0.091
10 Year	1.62	0.06	1.227	0.091
25 Year	1.72	0.10	1.490	0.128
50 Year	1.79	0.14	1.686	0.157
100 Year	1.85	0.17	1.874	0.185

7 Creek Realignment

7.1 SHOREACRES CREEK

Shoreacres Creek between Station 16+900 to 17+100 of the TWY 4 is considered for realignment as the watercourse corridor is near the Transitway at this section. The creek runs close to parallel to the Transitway resulting in a 100 m long crossing structure to carry the water under the Transitway. Creek realignment that relocates the crossing location from Station 16+960 to 17+100 allows shorter creek run between the Transitway and 407 ETR providing better flood protection for both highways.

The project site of Dundas St Station conflicts with a watercourse corridor of Shoreacres Creek. A creek section of 300 m needs to be realigned to the east to free up lands available for the development of transit station. Detailed discussion and site plan that shows the creek corridor realignment is included in **Section 6.2**.

7.2 SHELDON CREEK

Sheldon Creek between Station 19+200 to 19+450 is considered for realignment. The existing creek was realigned through north ditch of 407 ETR to a crossing structure on a major branch 250m westwards. Realigning this section to the north ditch of 407 TWY 4 eliminates a creek run of 250 m between the 2 highways providing more floodplain storage and reducing flood risks.

8 Erosion and Sediment Control During Construction

The erosion and sediment control (ESC) practices to be developed during detailed design should follow the latest MTO's reference documents including the Environmental Reference for Highway Design (MTO, June 2013), the Environmental Guide for Erosion and Sediment Control during Construction of Highway Projects (MTO, September 2015), as well as the Ontario Provincial Standards for Roads and Public Works (OPSS), and the Erosion and Sediment Control Guidelines for Urban Construction (Golden Horseshoe, Dec 2006). The needs for EASR or PTTW will be assessed prior to construction in detailed design stage. ESC measures and ESC plans will be provided in the permit application process.

Impacts on the surrounding environment related to highway projects can be mitigated by proper erosion and sediment control measures. MTO

It is recommended that a multi-barrier approach be undertaken during construction using the following measures as a minimum:

- Stabilize exposed soils with vegetation where possible to reduce the amount of sediments that would be conveyed further downstream to existing watercourses;
- Implement construction phasing to limit the duration of soil exposure;
- Install heavy-duty double silt fence at each water crossing;
- Double silt fence to be supported by straw-bale;
- Install rock check dams to reduce high flow velocities in the ditches/swales adjacent to the proposed 407 TWY;
- Erosion and sediment control blankets for the road embankments;
- Dewatering, temporary channel diversions; and
- Use erosion prevention controls and sediment control measures as necessary

9 Conclusions and Considerations

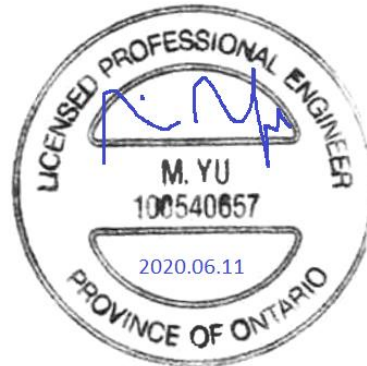
1. Due to the road profile sloping underground, pumping may be required at 2 locations along the proposed 407 TWY: Road tunnels under 407/403 interchange and 401/407 interchange. Details related to pump sizes should be provided during detailed design.
2. A treatment train approach is proposed for the TWY corridor consisting of grass embankments, long grassed swales, and enhanced swales. Quantity control of Transitway runoff is proposed to be provided through enhanced swales. These were designed as dry ponds with a formal outlet control structure consisting of 100 mm perforated pipe, hickenbottom structure and a 75 mm orifice plate. A single typical enhanced swale design was used throughout the roadway drainage analysis however a more detailed analysis should be undertaken during detailed design.
3. The SWM strategy for the stations includes wet ponds with control structures consisting of multiple orifices and/or weirs. Wet ponds were designed for each station to provide quantity, quality, and erosion and sediment control. All of the SWM facilities meet MOECC and MTO criteria.
4. MTO or the 407 Transitway operator will be responsible for the Long term maintenance of the SWM ponds and LIDs following MECP Stormwater Management and Design Manual.
5. The Hydraulic analysis was undertaken using GeoHEC-RAS for 31 culvert crossings within the study limits. All models are developed based on existing CH and CVC HEC models. All crossing design meet MTO criteria.
6. The results of the hydraulic analysis show that water levels increase from existing conditions to proposed conditions at some crossings; however, these increases are confined within MTO's ROW and have no impacts on upstream nor downstream riparian and private properties.
7. A headwater drainage feature in Shoreacres Creek watershed (BU05) that runs parallel to the proposed transitway between stations 16+900 and 17+100 of the 407 TWY 4 is considered for realignment due to its proximity to the Transitway. Fluvial geomorphology study is required at detail design stage.
8. Dundas Street Station is in conflict with creek corridor of a headwater drainage feature in Shoreacres Creek watershed. Creek is realigned and enhanced at detailed design stage. Fluvial Geomorphology study is required at detailed design Stage. Natural channel design will be incorporated into the realignment of the tributary of Shoreacres Creek at the Dundas Street Station.
9. Ground survey is needed for all existing drainage features within 407 ETR ROW upstream and downstream of proposed watercourse crossings.
10. The needs for EASR or PTTW will be assessed prior to construction in detailed design stage. ESC measures and ESC plans will be provided in the permit application process.

Drainage Lead:



Shahram Karimi, Ph.D., P.Eng.
Parsons

Drainage Engineer:



Mia Yu, M.Sc., P.Eng.
Parsons

Appendix A Drainage Mosaic

Figure A.1. Drainage Mosaic (Existing)

Figure A.2. Drainage Mosaic (Existing)

Figure A.3. Drainage Mosaic (Existing)

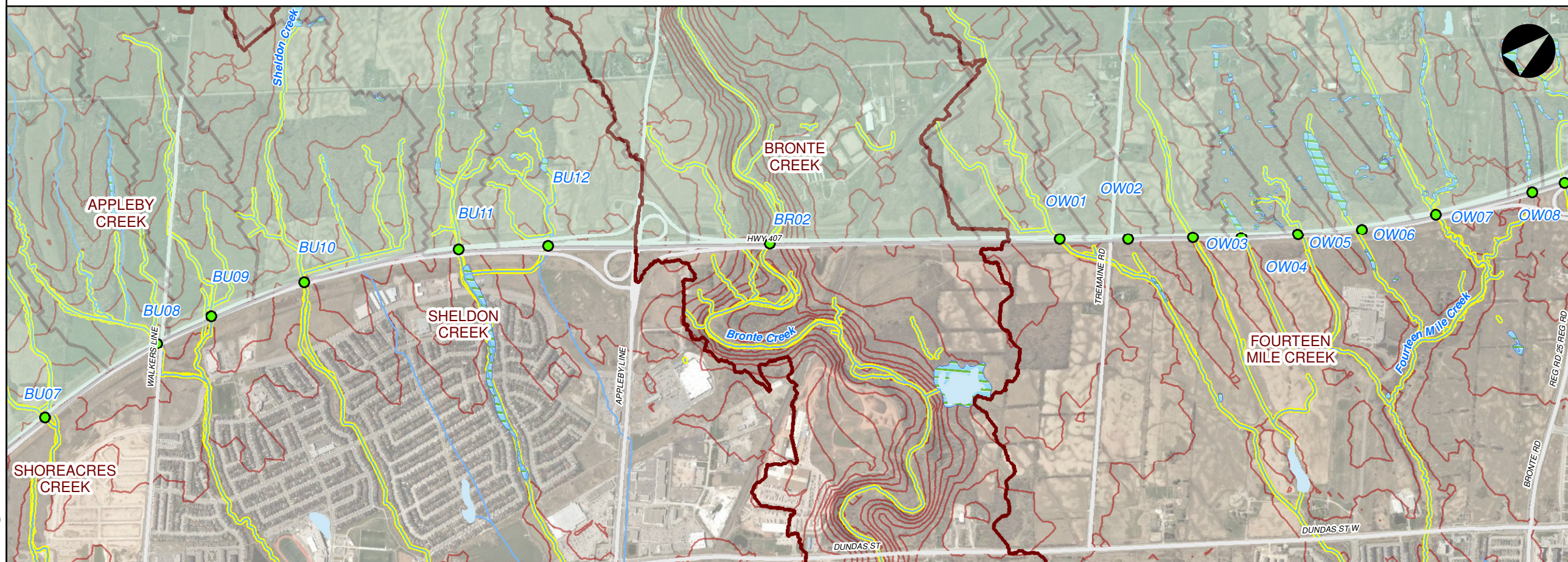
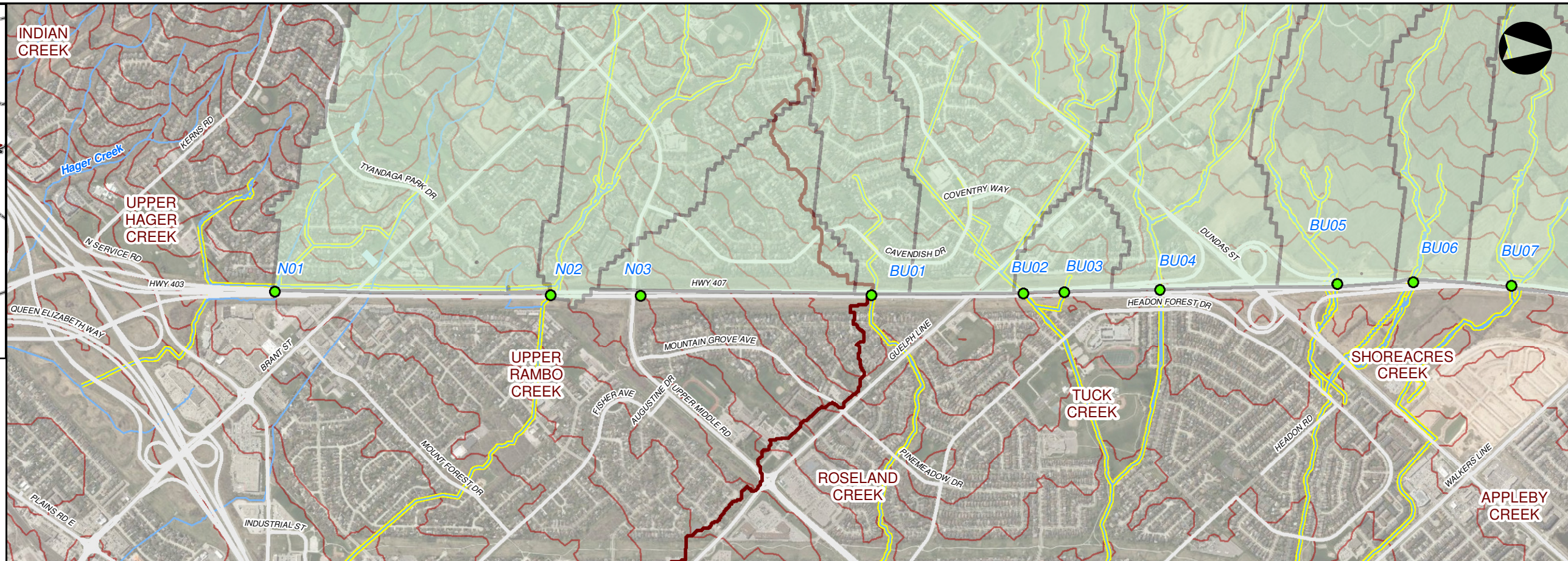
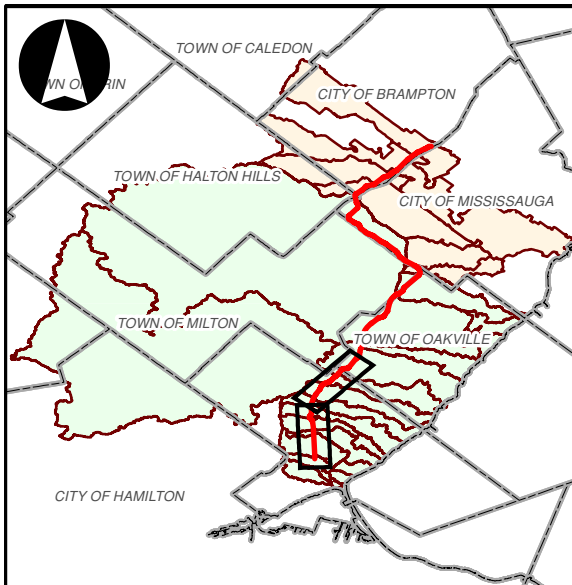
Figure A.4. Drainage Mosaic (Existing)

Figure A.5. Drainage Mosaic (Proposed)

Figure A.6. Drainage Mosaic (Proposed)

Figure A.7. Drainage Mosaic (Proposed)

Figure A.8. Drainage Mosaic (Proposed)



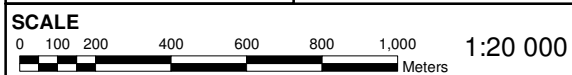
LEGEND

- Existing Crossing
- Watercourses
- Sub-Watersheds
- Waterbodies
- Wetlands
- Regulated Watercourses

Crossing Location Code

- N North Shore Watershed (Halton CA)
- BU Burlington Urban Creeks Watershed (Halton CA)
- BR Bronte Creek Watershed (Halton CA)
- OW Oakville West Urban Creeks Watershed (Halton CA)
- S Sixteen Mile Creek Watershed (Halton CA)
- OE Oakville East Urban Creeks Watershed (Halton CA)
- M Mullet Creek Subwatershed (Credit Valley CA)
- L Levi Creek Subwatershed (Credit Valley CA)
- NP Norval to Port Credit Subwatershed (Credit Valley CA)
- F Fletcher's Creek Subwatershed (Credit Valley CA)

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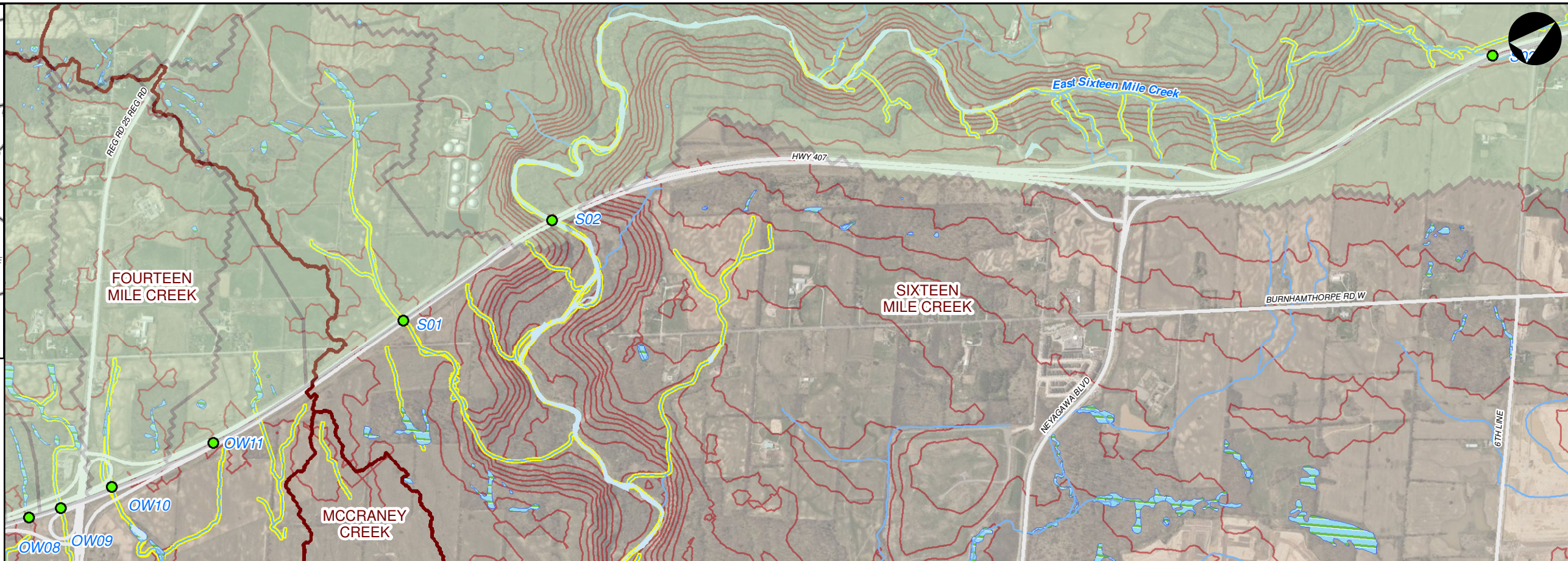
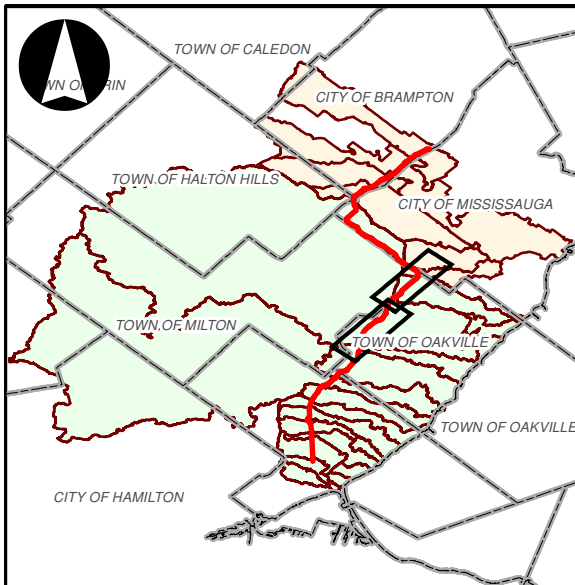


407 TRANSITWAY: EXISTING DRAINAGE MOSAIC - SHEET 1 of 4

407 TRANSITWAY FROM BRANT TO HURONTARIO STREET

FIGURE NO.

A.1

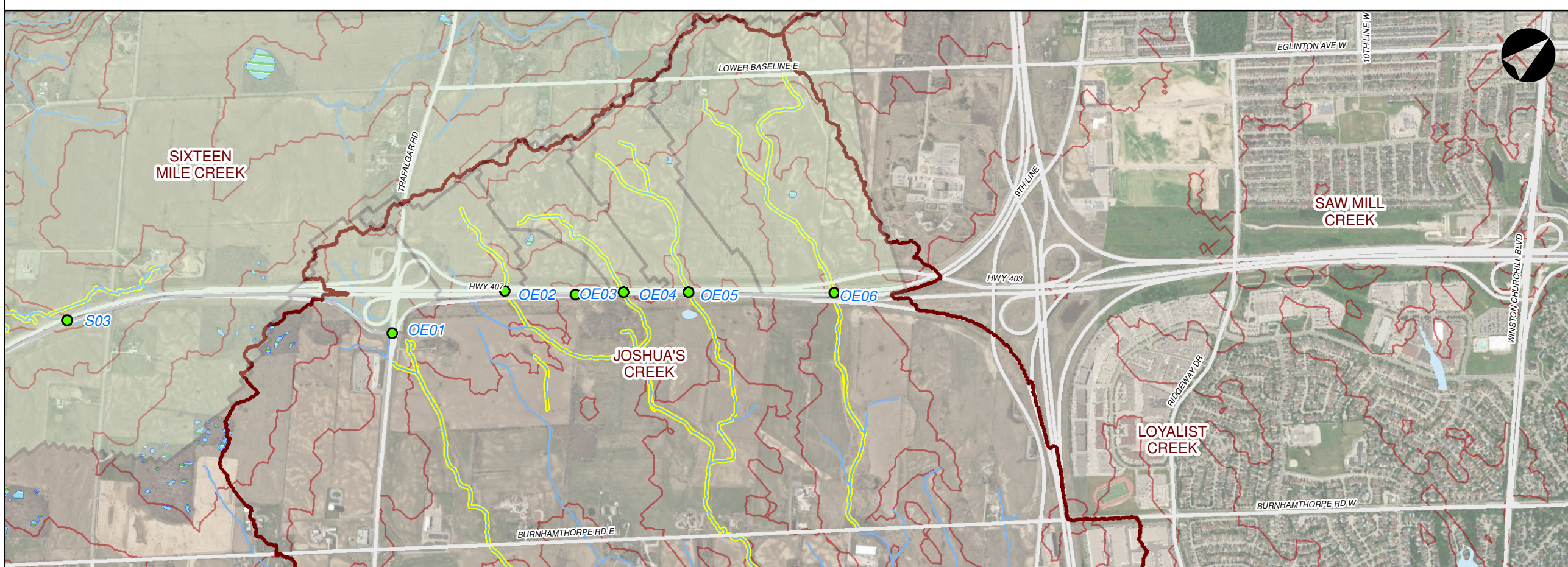


LEGEND

- Existing Crossing
- Watercourses
- Sub-Watersheds
- Waterbodies
- Wetlands
- Regulated Watercourses

Crossing Location Code

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DATE MARCH 2020	PROJECT NO. 476294
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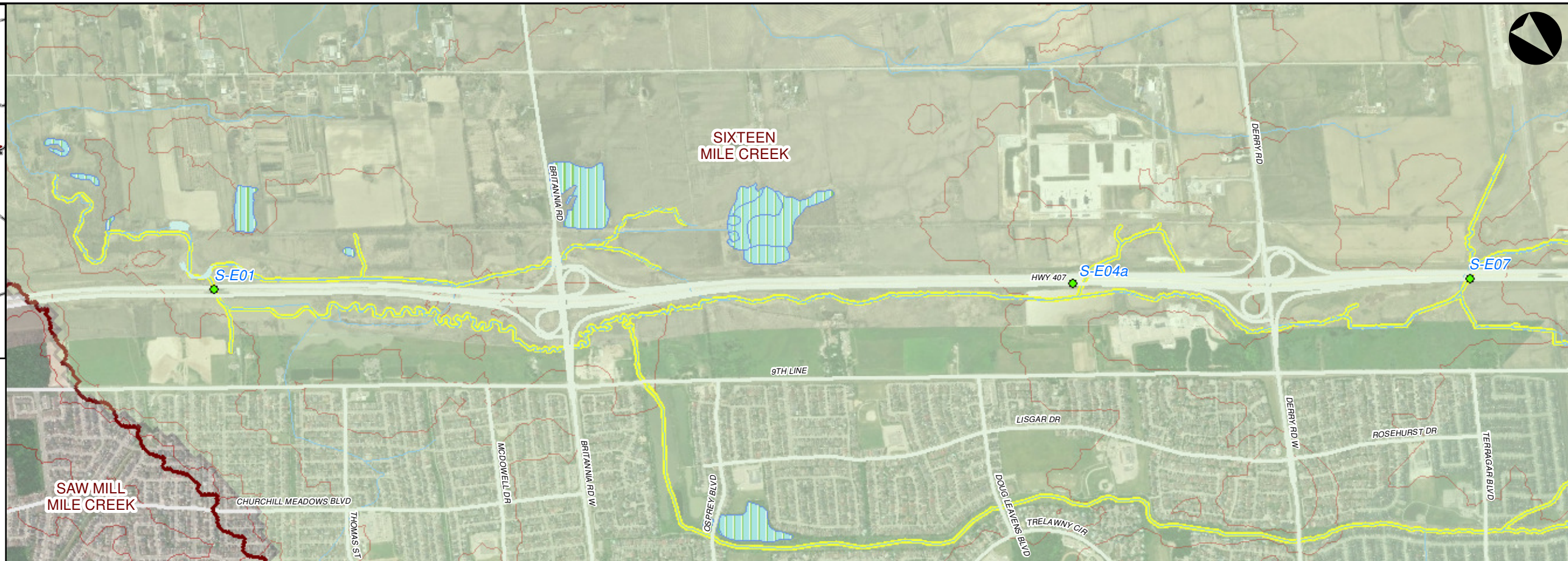
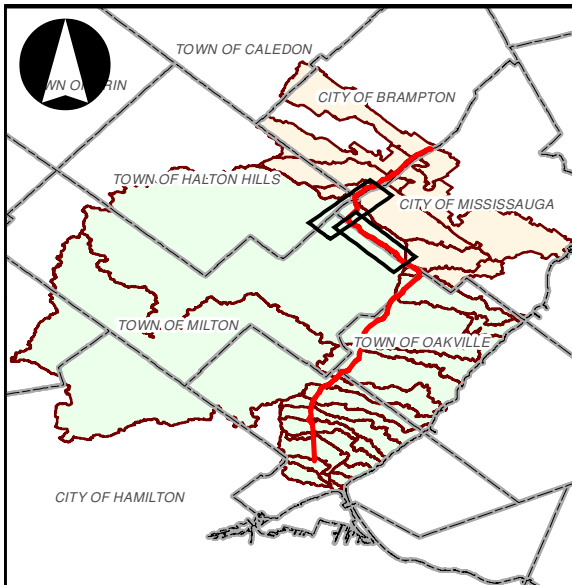


407 TRANSITWAY: EXISTING DRAINAGE MOSAIC - SHEET 2 of 4

407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

FIGURE NO.

A.2

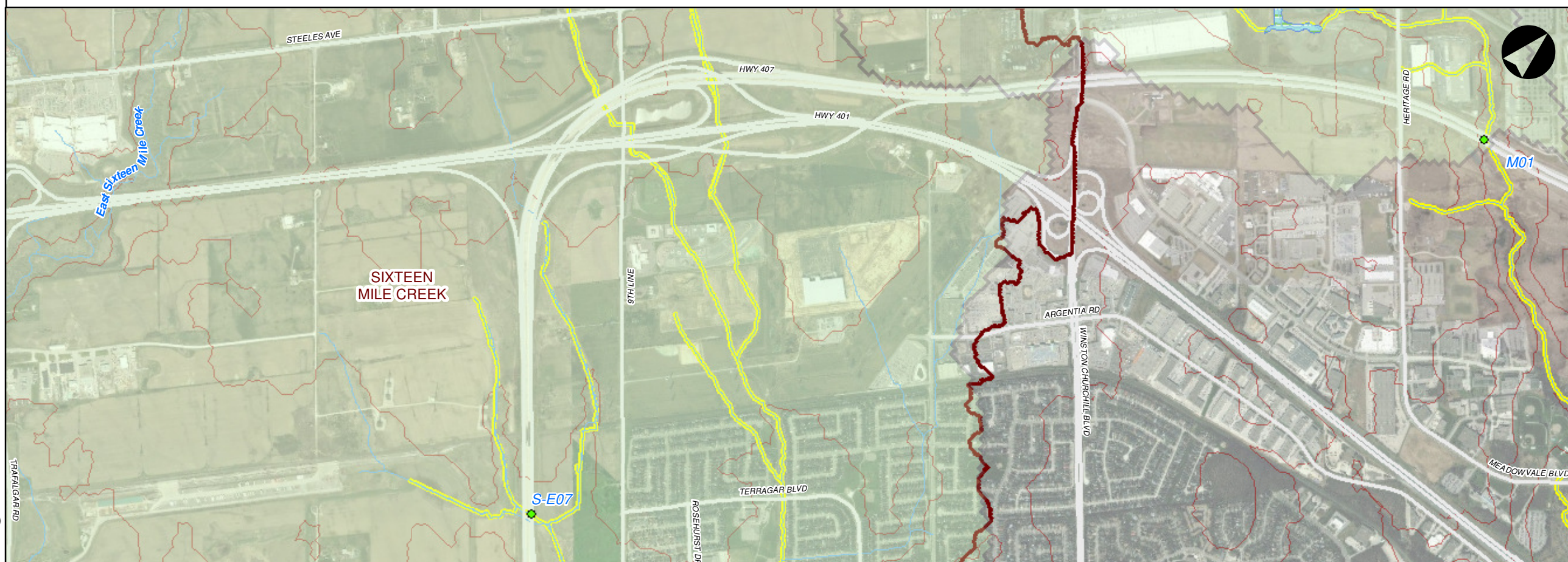


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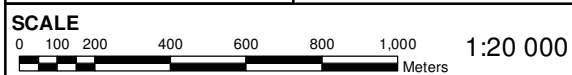
- Existing Crossing
- Watercourses
- Sub-Watersheds
- Waterbodies
- Wetlands
- Regulated Watercourses

Crossing Location Code

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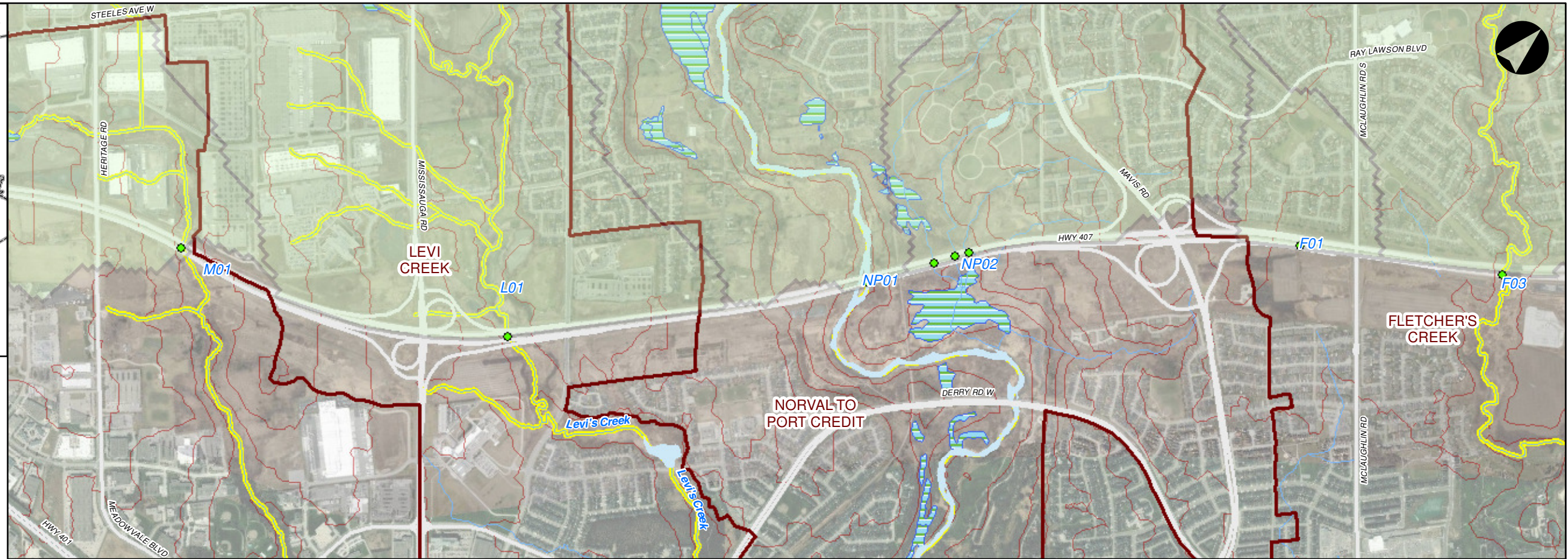
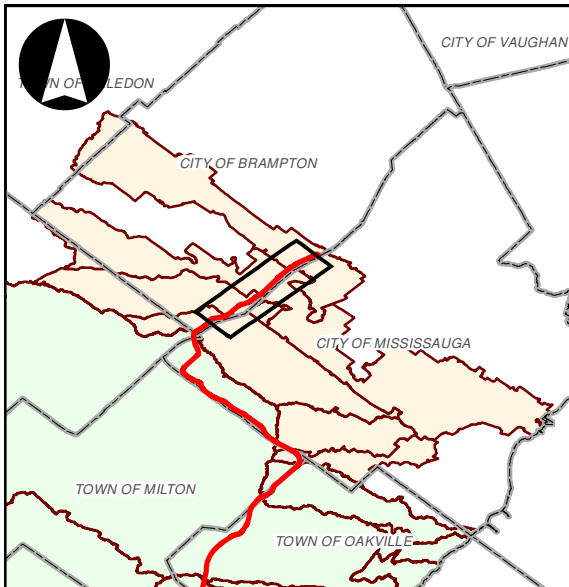


407 TRANSITWAY: EXISTING DRAINAGE MOSAIC - SHEET 3 of 4

407 TRANSITWAY FROM BRANT TO HURONTARIO STREET

FIGURE NO.

A.3



LEGEND

- Existing Crossing
- Watercourses
- Sub-Watersheds
- Waterbodies
- Wetlands
- Regulated Watercourses

Crossing Location Code

- N North Shore Watershed (Halton CA)
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DATE: MARCH 2020
PROJECT NO.: 476294

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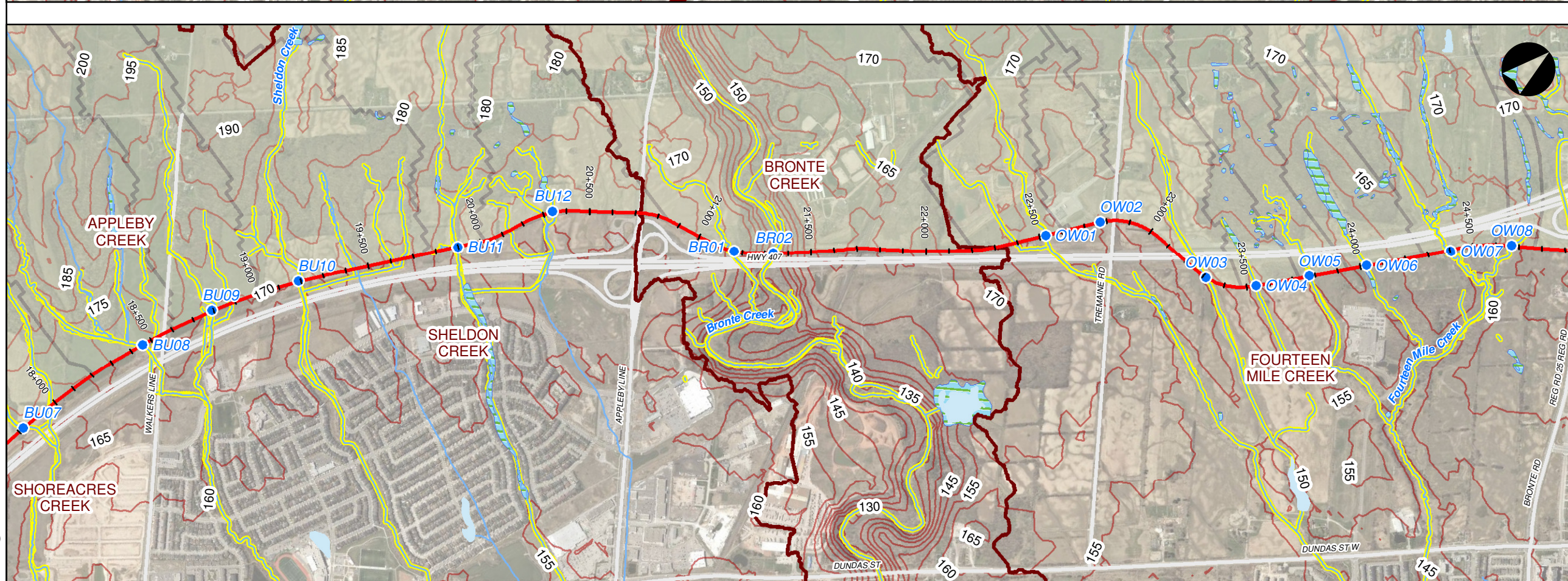
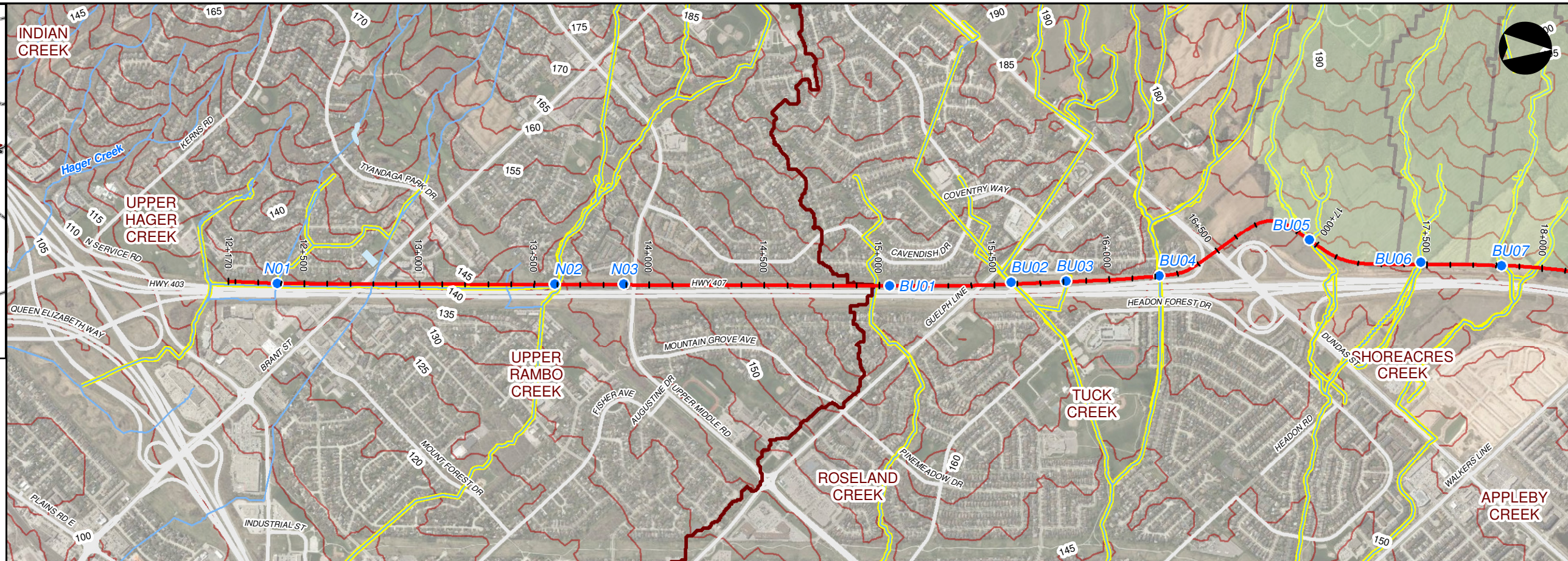
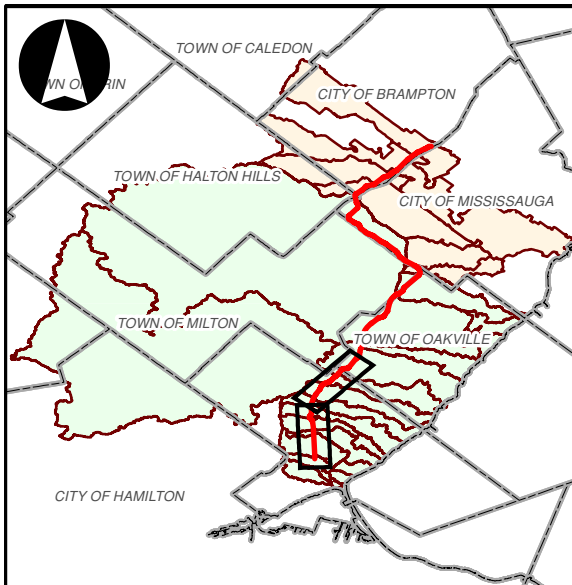


407 TRANSITWAY: EXISTING DRAINAGE MOSAIC - SHEET 4 of 4

407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

FIGURE NO.

A.4



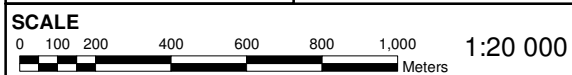
LEGEND

- Crossings
- Preferred Alignment
- Watercourses
- Sub-Watersheds
- Waterbodies
- Wetlands
- Regulated Watercourses

Crossing Location Code

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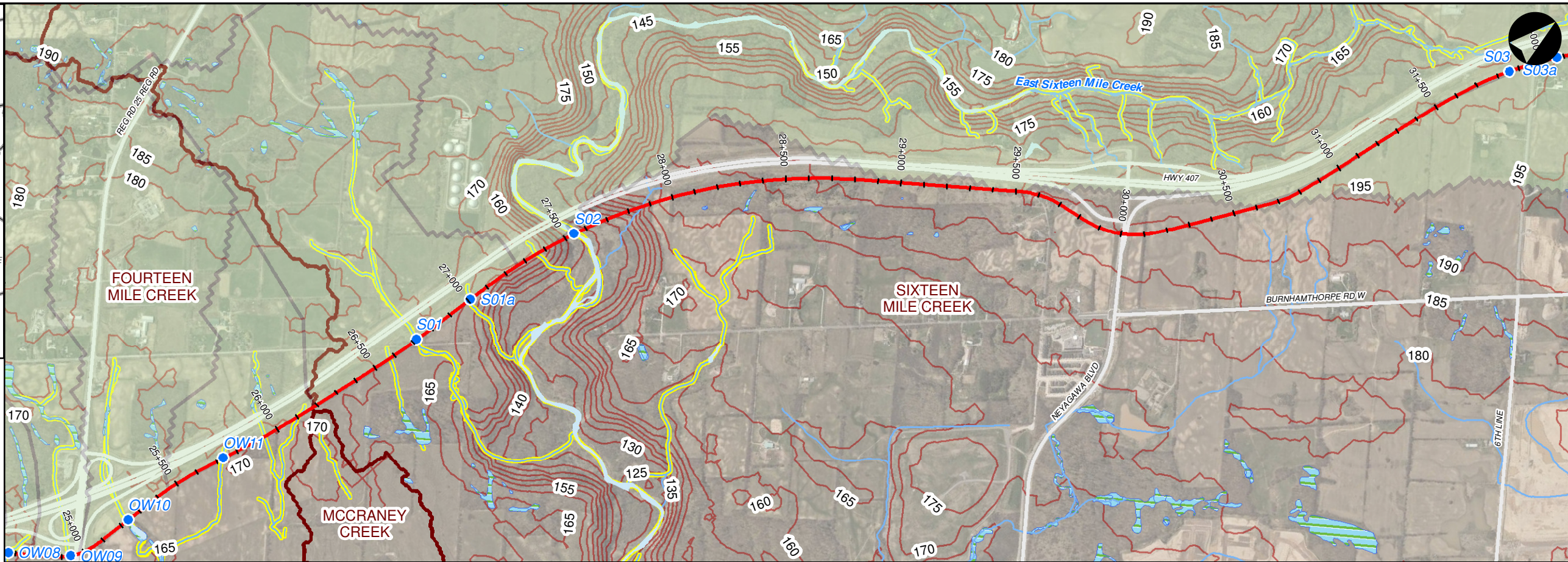
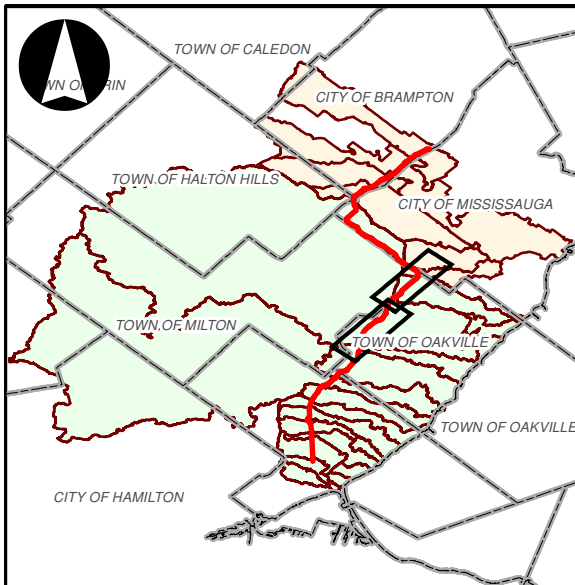


407 TRANSITWAY: PROPOSED DRAINAGE MOSAIC - SHEET 1 of 4

407 TRANSITWAY FROM BRANT TO HURONTARIO STREET

FIGURE NO.

A.5

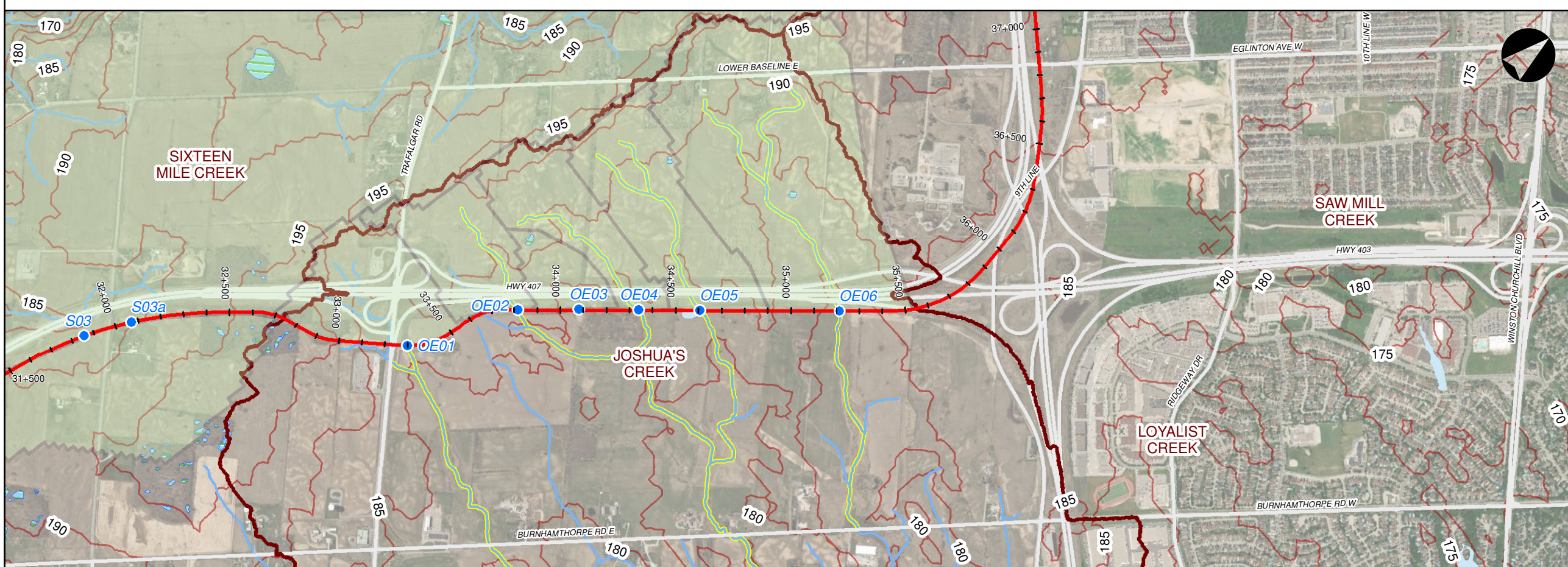


LEGEND

- Crossings
- Preferred Alignment
- Watercourses
- Sub-Watersheds
- Waterbodies
- Wetlands
- Regulated Watercourses

Crossing Location Code

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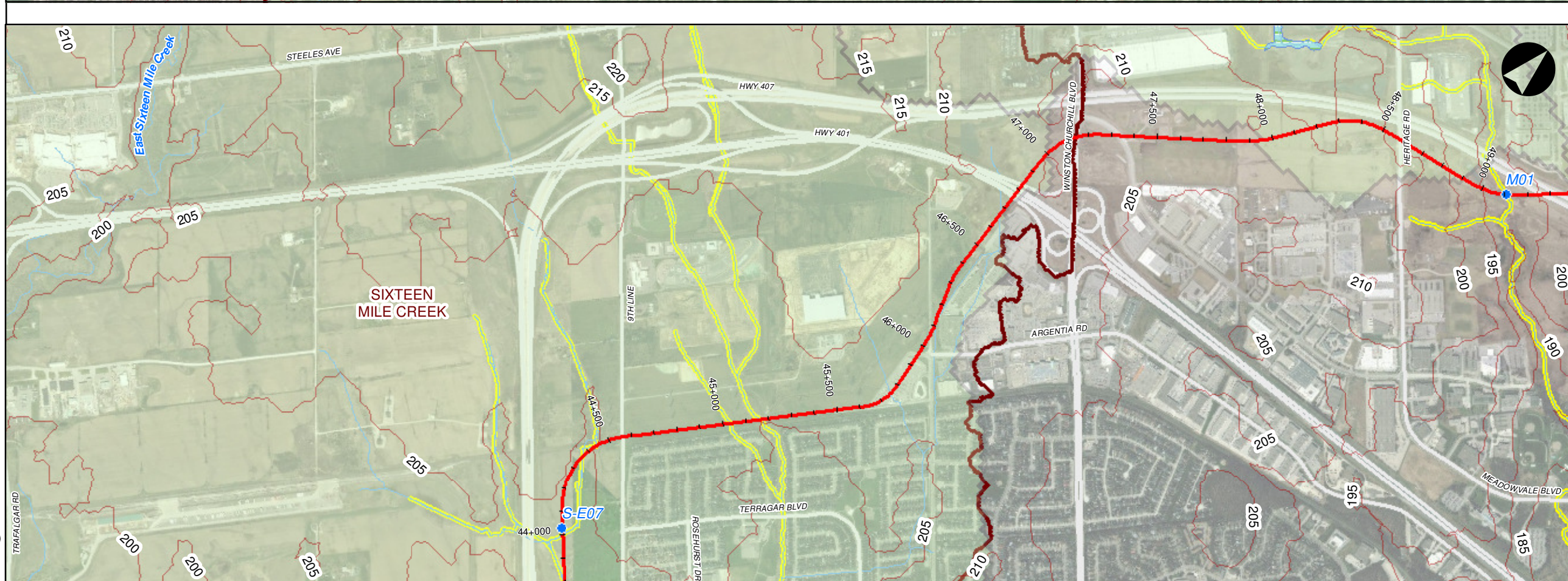
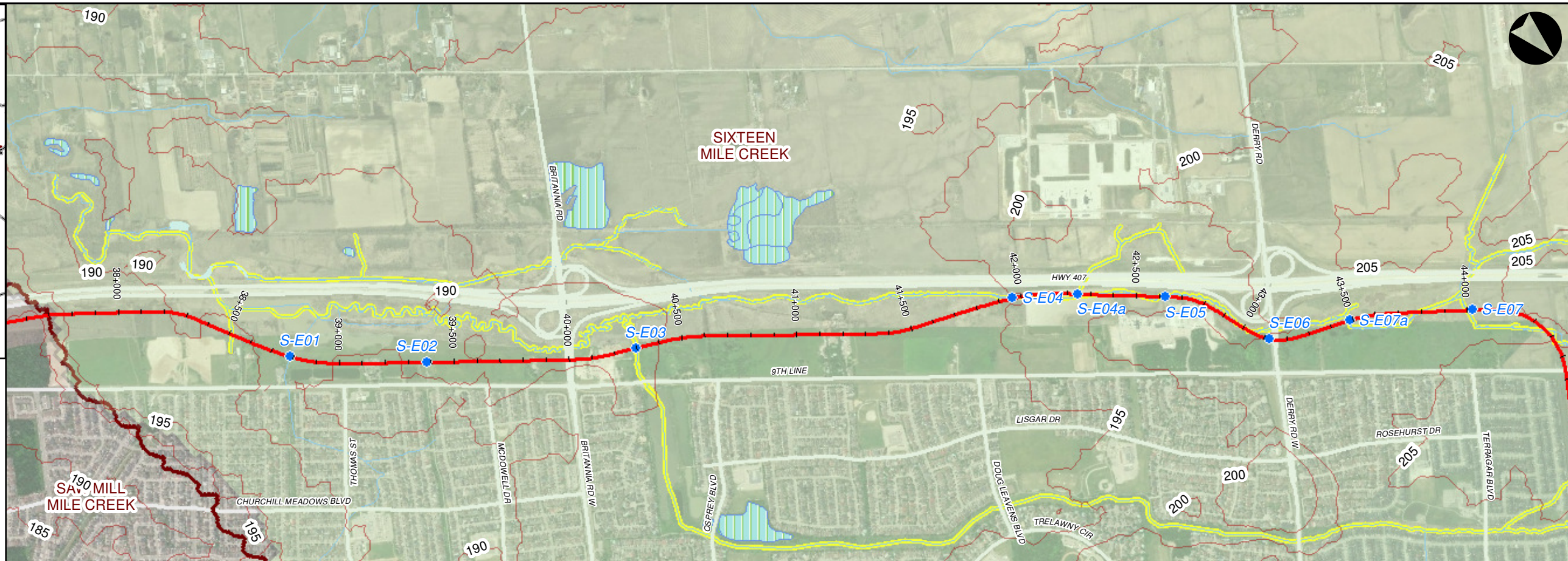
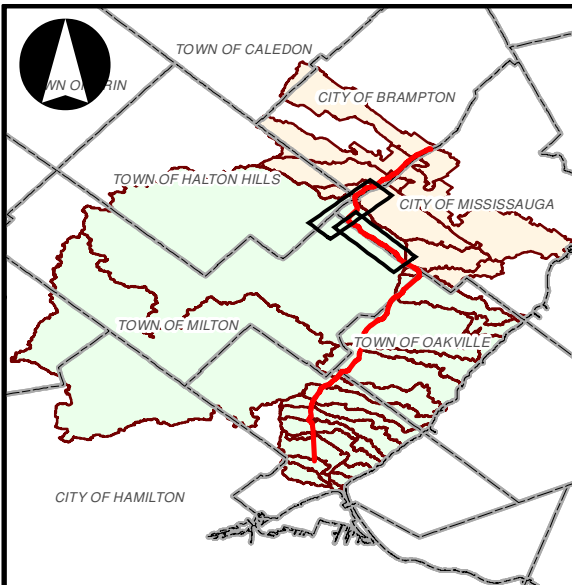


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407 TRANSITWAY: PROPOSED DRAINAGE MOSAIC - SHEET 2 of 4
407 TRANSITWAY FROM BRANT TO HURONTARIO STREET

FIGURE NO.
A.6



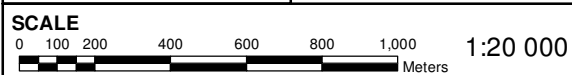
LEGEND

- Crossings
- Preferred Alignment
- Watercourses
- Sub-Watersheds
- Waterbodies
- Wetlands
- Regulated Watercourses

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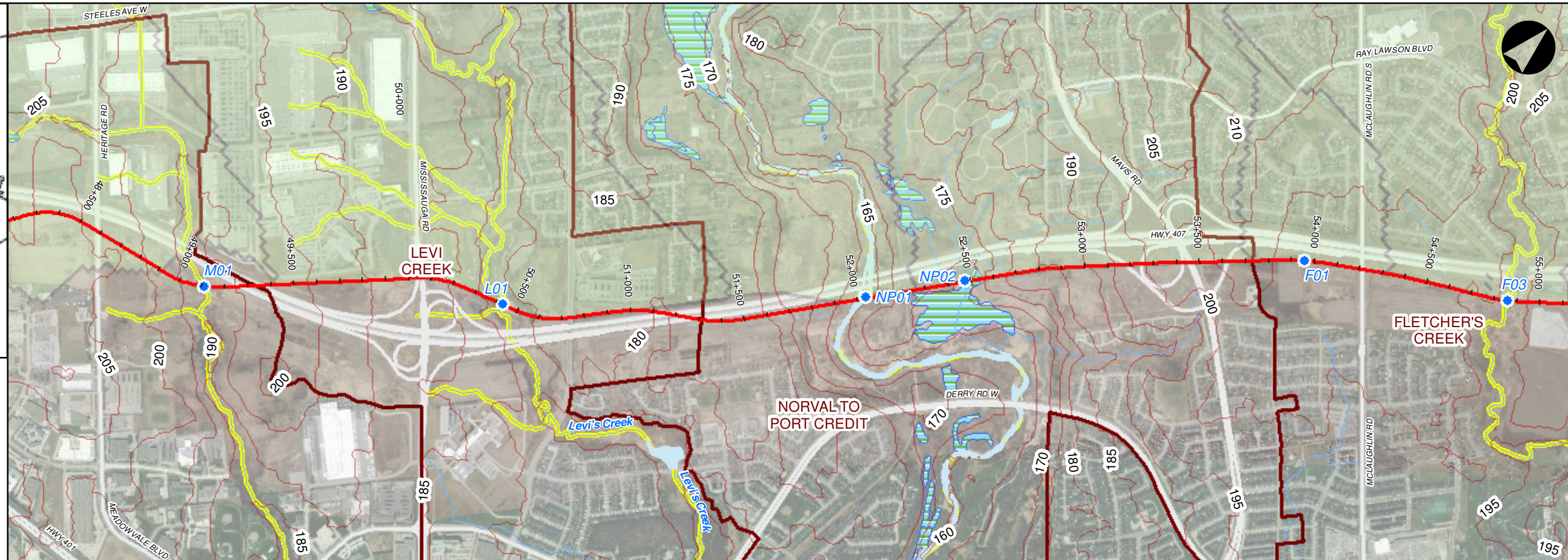
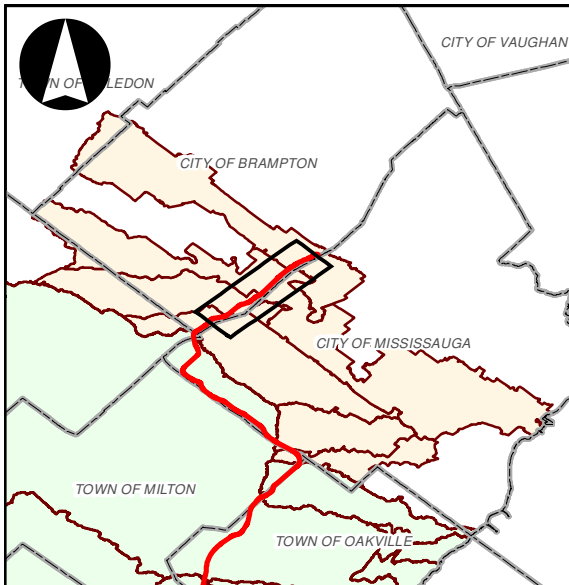


407 TRANSITWAY: PROPOSED DRAINAGE MOSAIC - SHEET 3 of 4

407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

FIGURE NO.

A.7



LEGEND

- Crossings
- Preferred Alignment
- Watercourses
- Sub-Watersheds
- Waterbodies
- Wetlands
- Regulated Watercourses

Crossing Location Code

- N North Shore Watershed (Halton CA)
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DATE: MARCH 2020
PROJECT NO.: 476294

SCALE: 1:20 000
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407 TRANSITWAY: PROPOSED DRAINAGE MOSAIC - SHEET 4 of 4

407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

FIGURE NO.

A.8

Appendix B. Existing Environmental Characterization

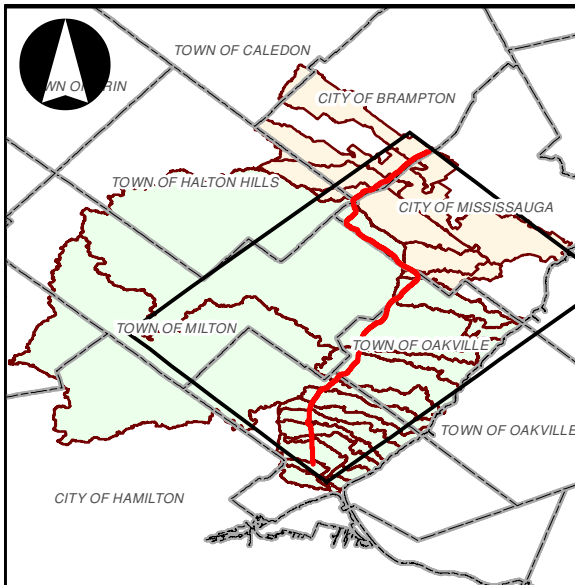
Figure B.1. Soil Group Map for Study Area

Figure B.2. Land Cover Map for Study Area

Figure B.3. Locations of Streamflow Monitoring Stations

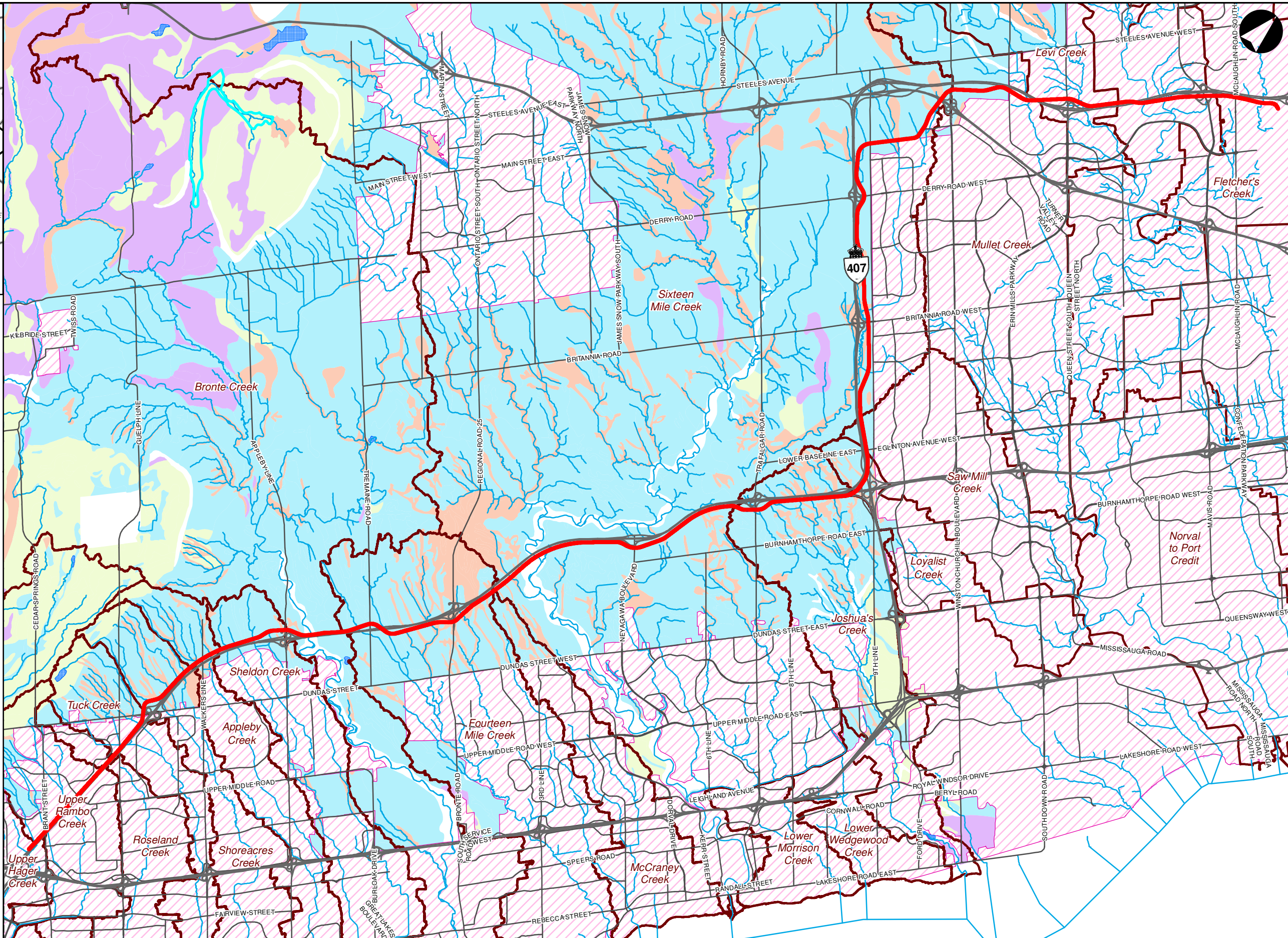
Figure B.4. MTO IDF Curves

Figure B.5. Source Water Protection Areas



LEGEND

- Preferred Alignment
- Watercourses
- Sub-Watersheds
- Built Up Area
- Water
- Hydrologic Soil Groups**
- (A) High Infiltration
- (B) Moderate Infiltration
- (C) Slow Infiltration
- (D) Very Slow Infiltration



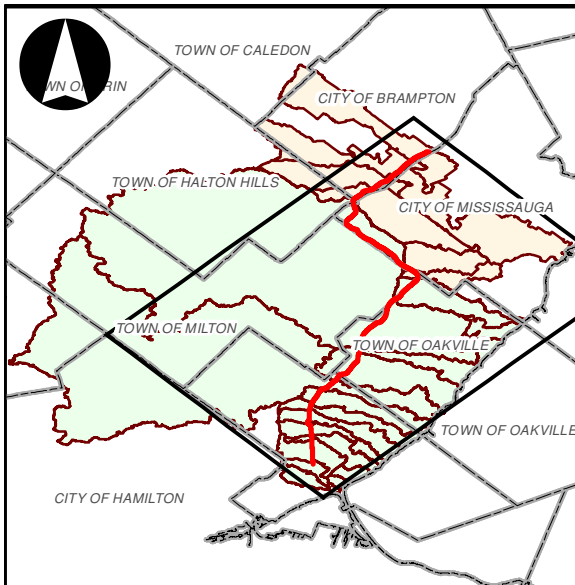
DATE OCTOBER 2019	PROJECT NO. 476294
SCALE N.T.S.	



407 TRANSITWAY: SOIL GROUPS

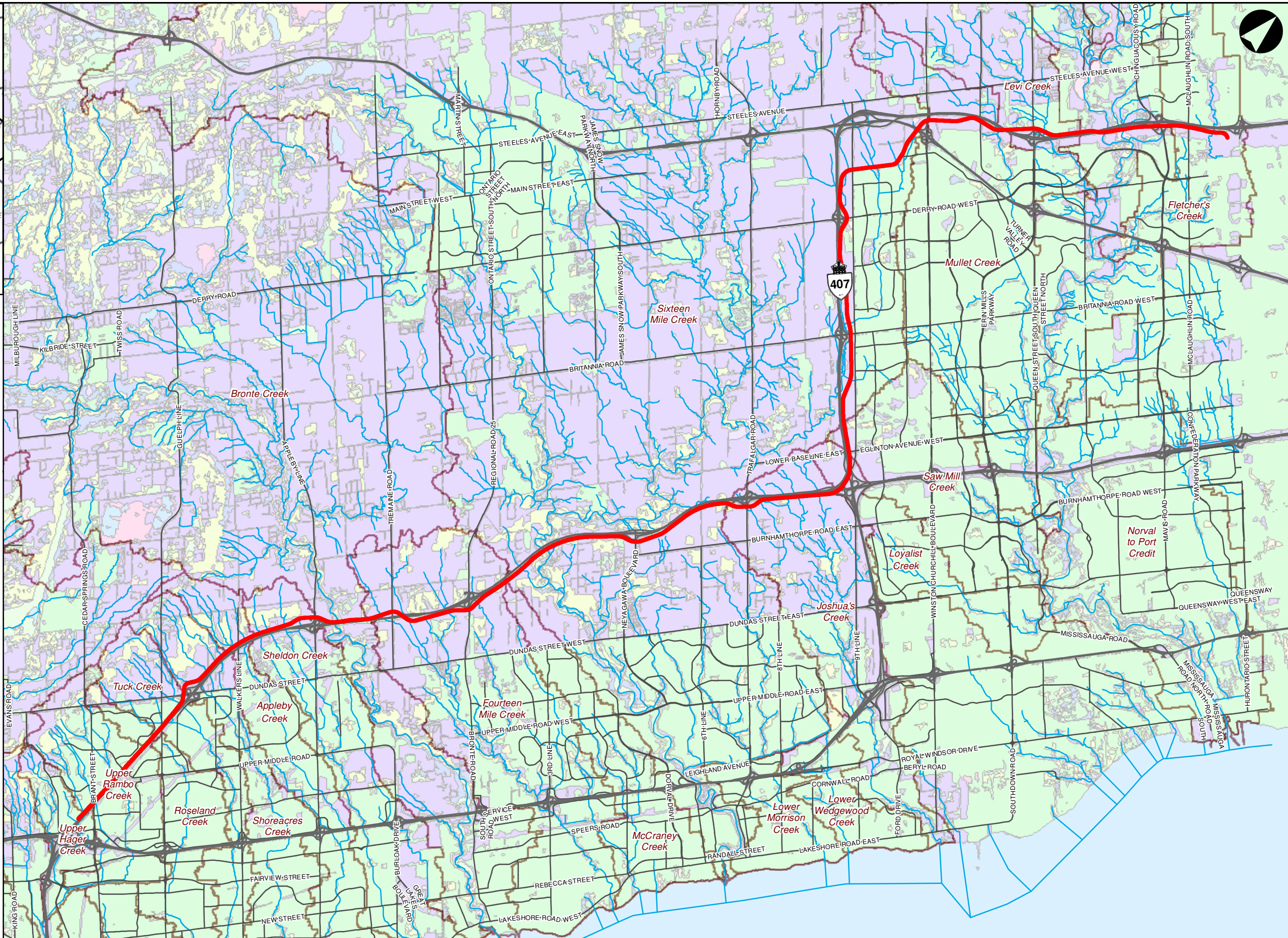
407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

FIGURE NO.
B.1



LEGEND

- Preferred
- Watercourses
- Sub-Watersheds
- Clear Open Water
- Marsh
- Swamp
- Fen
- Bog
- Treed Upland
- Deciduous Treed
- Mixed Treed
- Coniferous Treed
- Plantations - Treed Cultivated
- Hedge Rows
- Open Cliff and Talus
- Sand/Gravel/Mine Tailings/Extraction
- Community/Infrastructure
- Agriculture and Undifferentiated Rural Land Use

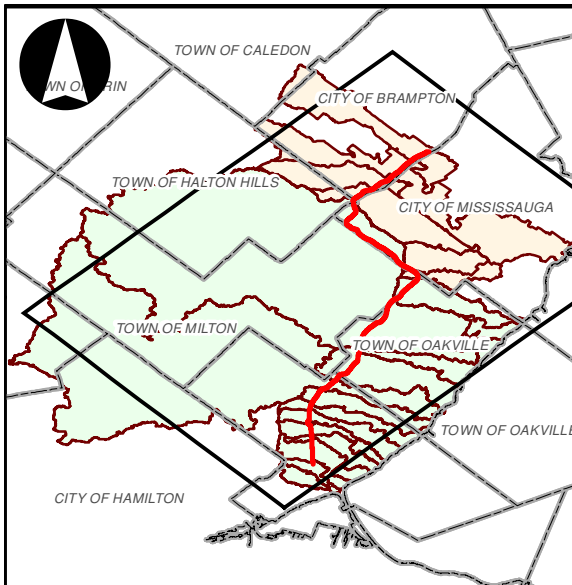


DATE OCTOBER 2019	PROJECT NO. 476294
SCALE 0 485 970 1,940 2,910 3,880 4,850 Meters	N.T.S



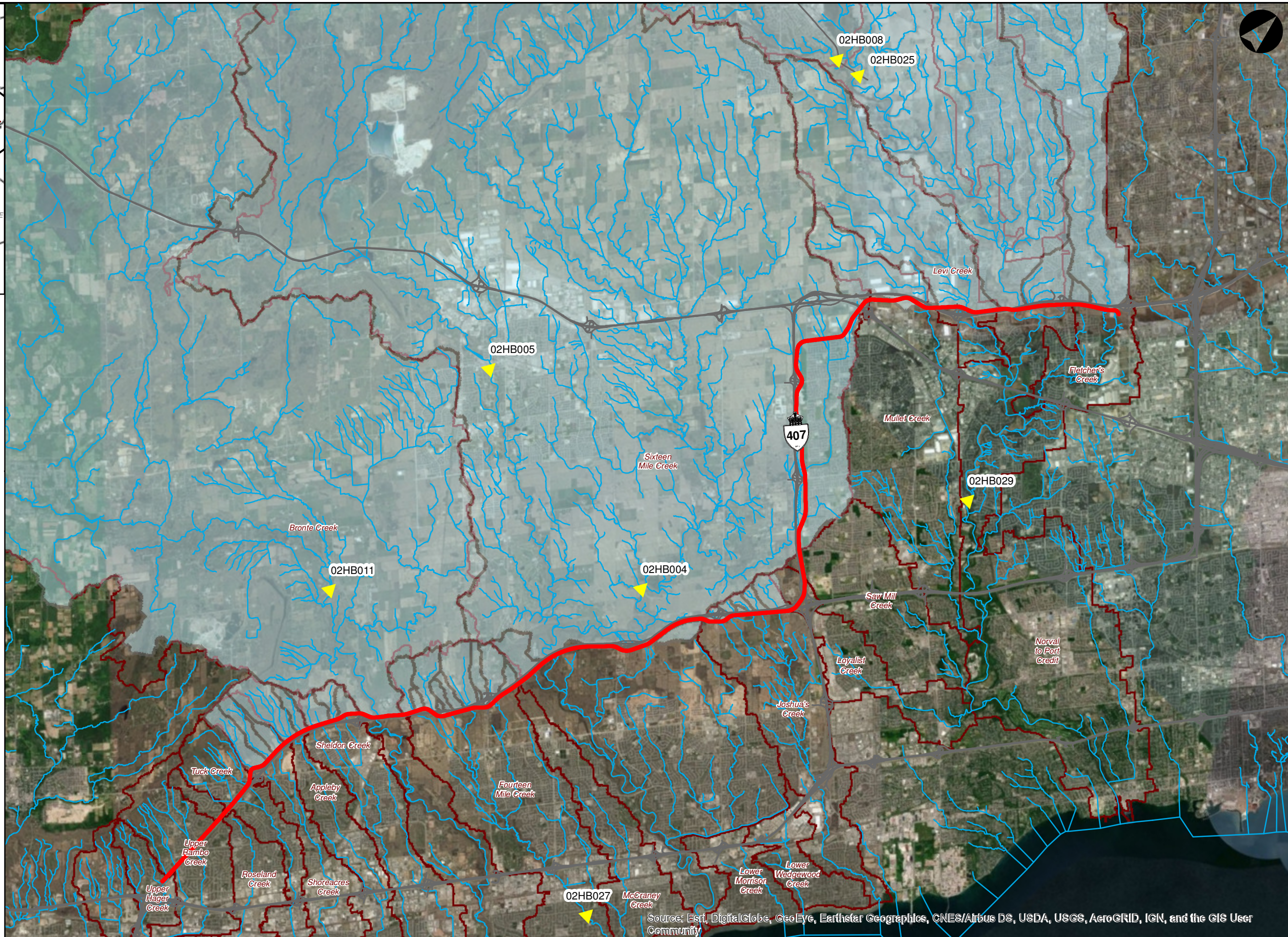
407 TRANSITWAY: LAND COVER
407 TRANSITWAY FROM BRANT TO HURONTARIO STREET

FIGURE NO.
B.2



LEGEND

- Preferred Alignment
- ▲ Streamflow Monitoring Stations
- Sub-Watersheds



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

DATE OCTOBER 2019	PROJECT NO. 476294
SCALE 0 550 1,100 2,200 3,300 4,400 5,500 Meters	N.T.S



407 TRANSITWAY: STREAMFLOW STATIONS

407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

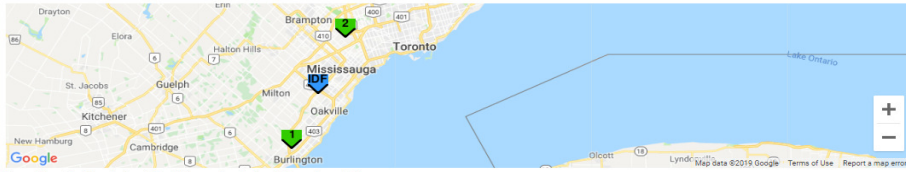
FIGURE NO.

B.3

Active coordinate

43° 31' 15" N, 79° 43' 45" W (43.520833,-79.729167) [Modify selection](#)

Retrieved: Fri, 08 Mar 2019 15:24:09 GMT



Map options: [Modify selection](#) | [Show/hide gauging stations](#) | [Re-center selection](#)

Location summary

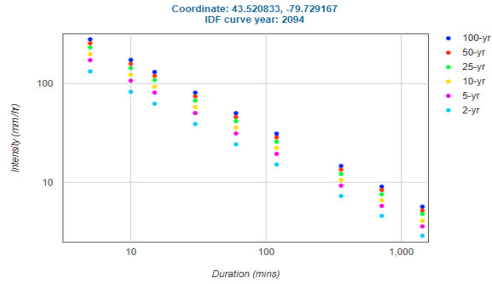
These are the locations in the selection.

IDF Curve: 43° 31' 15" N, 79° 43' 45" W (43.520833,-79.729167)

Location	Coordinates
1	43.354167,-79.820833
2	43.679167,-79.629167

Results

An IDF curve was found.



Coefficient summary

Data year: 2010

IDF curve year: 2094

[Click a return period in the table header for more detail.](#)

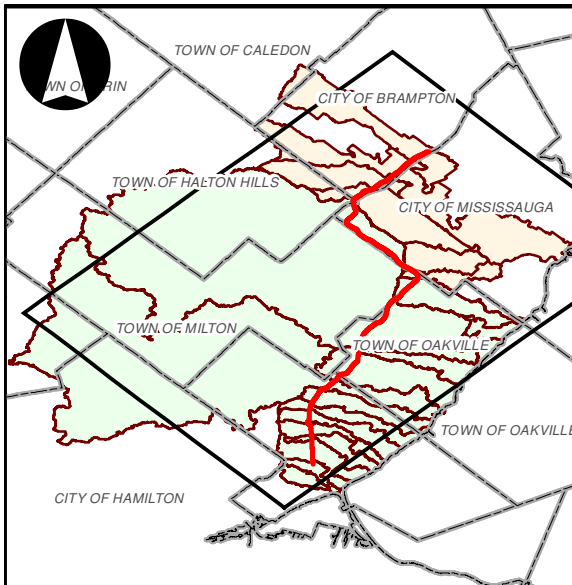
Statistics

Rainfall intensity (mm hr⁻¹)




Duration	5-min	10-min	15-min	30-min	1-hr	2-hr	6-hr	12-hr	24-hr
2-yr ^{e2}	132.9	82.7	62.6	39.0	24.3	15.2	7.3	4.6	2.9
5-yr ^{e2}	172.7	107.1	81.1	50.4	31.3	19.5	9.3	5.8	3.6
10-yr ^{e2}	198.8	123.2	93.2	57.8	35.9	22.4	10.6	6.6	4.1
25-yr ^{e2}	231.8	143.5	108.5	67.3	41.7	25.9	12.2	7.6	4.8
50-yr ^{e2}	256.2	158.6	119.8	74.2	46.0	28.6	13.5	8.4	5.2
100-yr ^{e2}	280.6	173.6	131.1	81.2	50.3	31.2	14.7	9.1	5.7

Rainfall depth (mm)

Duration	5-min	10-min	15-min	30-min	1-hr	2-hr	6-hr	12-hr	24-hr
2-yr ^{e2}	11.1	13.8	15.7	19.5	24.3	30.4	43.8	55.2	69.6
5-yr ^{e2}	14.4	17.9	20.3	25.2	31.3	39.0	55.8	69.6	86.4
10-yr ^{e2}	16.6	20.5	23.3	28.9	35.9	44.8	63.6	79.2	98.4
25-yr ^{e2}	19.3	23.9	27.1	33.6	41.7	51.8	73.2	91.2	115.2
50-yr ^{e2}	21.3	26.4	29.9	37.1	46.0	57.2	81.0	100.8	124.8
100-yr ^{e2}	23.4	28.9	32.8	40.6	50.3	62.4	88.2	109.2	136.8



LEGEND

-  Preferred Alignment
-  Sub-Watersheds
-  Intake Protection Zones



DATE JUNE 2020	PROJECT NO. 476294
SCALE 0 550 1,100 2,200 3,300 4,400 5,500 Meters	N.T.S



PARSONS

407 TRANSITWAY: Source Water Protection Areas

407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

FIGURE NO.

B.5

Appendix C Field Notes

Culvert Inspection – BU05

NOTES

- Upstream end is beyond fence line and not accessible. Downstream end is inspected.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end looking west



Upstream end looking south



Upstream end looking north



Downstream end looking east

Culvert Inspection – BU06

NOTES

- Both upstream and downstream ends are not accessible. Access may be possible through the adjacent gate. Further coordination with 407 ETR maintenance staff is needed.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end looking west



Downstream end looking east

Culvert Inspection – BU07

NOTES

- Both upstream and downstream ends are not accessible. Access may be possible through the adjacent storm pond maintenance road. Further coordination with 407 ETR maintenance staff is needed.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end looking west



Downstream end looking east

Culvert Inspection – BU08

NOTES

- Both upstream and downstream ends are not accessible. Access may be possible through the adjacent gate. Further coordination with 407 ETR maintenance staff is needed.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end looking west



Downstream end looking east

Culvert Inspection – BU9

NOTES

- Both upstream and downstream ends are not accessible. Access may be possible through the adjacent gate. Further coordination with 407 ETR maintenance staff is needed.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end looking west



Downstream end looking east

Culvert Inspection – BU10

NOTES

- Both upstream and downstream ends are not accessible. Access may be possible through the adjacent gate. Further coordination with 407 ETR maintenance staff is needed.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end looking west



Downstream end looking east

Culvert Inspection – BU11

NOTES

- Both upstream and downstream ends are not accessible. Access may be possible through the adjacent gate. Further coordination with 407 ETR maintenance staff is needed.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW.
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end looking west



Downstream end looking east

Culvert Inspection – BU12

NOTES

- Both upstream and downstream ends are not accessible. Access may be possible through the adjacent gate. Further coordination with 407 ETR maintenance staff is needed.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end looking west



Downstream end looking east

Culvert Inspection – OW01

NOTES

- Both upstream and downstream ends are not accessible. Access may be possible through the adjacent gate. Further coordination with 407 ETR maintenance staff is needed.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end looking west

Culvert Inspection – OW02

NOTES

- Both upstream and downstream ends are not accessible. Access may be possible through the adjacent gate. Further coordination with 407 ETR maintenance staff is needed.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end looking west



Downstream end looking east

Culvert Inspection – OW03

NOTES

- Upstream end is accessible through the truck inspection station. Downstream end is beyond fence line.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.
- Culvert rehabilitation is completed. The cross-sectional area is reduced and pipe inside wall material is changed from original design.

PHOTOS



Upstream end



Upstream end looking west



Downstream end looking east

Culvert Inspection – OW04

NOTES

- Upstream end is accessible through the truck inspection station. Downstream end is beyond fence line.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end



Downstream end looking east

Culvert Inspection – OW06

NOTES

- Both upstream and downstream ends are not accessible.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end looking west



Downstream end looking east

Culvert Inspection – OW07

NOTES

- Both upstream and downstream ends are not accessible.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end looking west



Downstream end looking east

Culvert Inspection – OW08

NOTES

- Both upstream and downstream ends are not accessible.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end looking west



Downstream end looking east

Culvert Inspection – OW09

NOTES

- Both upstream and downstream ends are not accessible due to steep slopes and narrow shoulders.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end looking west



Downstream end looking south

Culvert Inspection – OW10

NOTES

- Both upstream and downstream ends are not accessible due to steep slopes and narrow shoulders.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end looking north



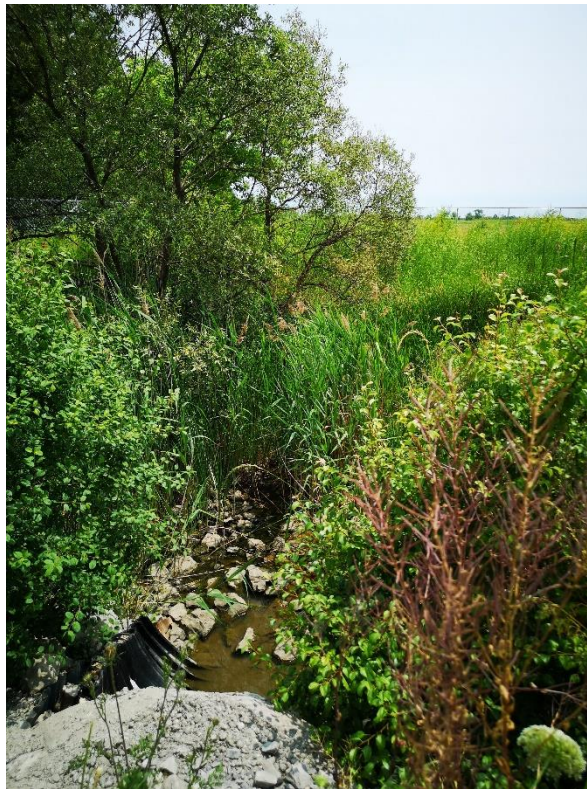
Downstream end looking east

Culvert Inspection – OW11

NOTES

- Both upstream and downstream ends are accessible.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Downstream end looking east



Upstream end looking west

Culvert Inspection – S01

NOTES

- Both upstream and downstream ends are not accessible.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end looking west



Downstream end looking east

Culvert Inspection – OE04

NOTES

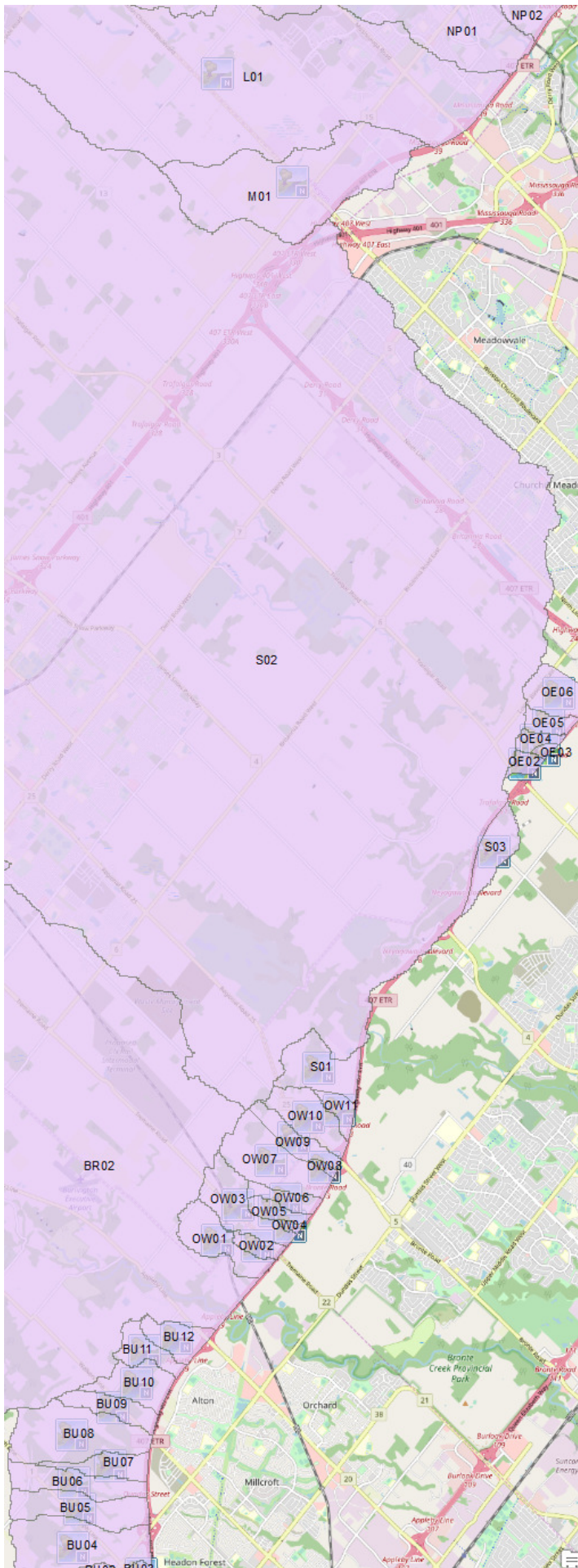
- Both upstream and downstream ends are not accessible.
- The watercourse crossing is surrounded by green field.
- The culvert provides drainage outlet for upstream undeveloped rural land and 407 ETR ROW
- The watercourse and road ditch are heavily vegetated, indicating low erosion potential and high hydraulic resistance.

PHOTOS



Upstream end looking east

Appendix D Hydrologic Model Schematics, Input and Output Files



```

=====
V   V   I   SSSSS U   U   A   L           (v 5.2.2003)
V   V   I   SS   U   U   A A   L
V   V   I   SS   U   U   AAAAA L
V   V   I   SS   U   U   A   A   L
VV    I   SSSSS UUUUU A   A   LLLLL

```

```

    000   TTTTT   TTTTT   H   H   Y   Y   M   M   000   TM
O   O   T   T   H   H   Y   Y   MM  MM  O   O
O   O   T   T   H   H   Y   M   M   O   O
    000   T   T   H   H   Y   M   M   000

```

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 5.2\vo2\voin.dat
 Output filename: C:\Users\p001130E\AppData\Local\Civica\XH5\90177c49-c212-41e8-9d24-aaf9b547bf89\c72018da-4
 Summary filename: C:\Users\p001130E\AppData\Local\Civica\XH5\90177c49-c212-41e8-9d24-aaf9b547bf89\c72018da-4

DATE: 10/10/2019 TIME: 05:52:55

USER:

COMMENTS: _____

 ** SIMULATION : Reg **

```

-----
| READ STORM |
| Ptotal=285.08 mm |
|-----|
Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
Comments: Hazel

```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

```

-----
| CALIB |
| NASHYD ( 0174) |
| ID= 1 DT= 5.0 min |
|-----|
Area (ha)= 31.31 Curve Number (CN)= 76.0
Ia (mm)= 8.04 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 1.45

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00

0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00

7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 0.825

PEAK FLOW (cms)= 2.739 (i)

TIME TO PEAK (hrs)= 47.500

RUNOFF VOLUME (mm)= 214.841

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.754

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData
	ata\Local\Temp\
Ptotal=285.08 mm	63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
	Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00

9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB							
NASHYD (0175)	Area (ha)=	105.98	Curve Number (CN)=	82.0			
ID= 1 DT= 5.0 min	Ia (mm)=	8.60	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	1.48					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99

5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 2.735

PEAK FLOW (cms)= 9.519 (i)

TIME TO PEAK (hrs)= 47.500

RUNOFF VOLUME (mm)= 230.084

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.807

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\foe33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB NASHYD (0176) ID= 1 DT= 5.0 min	Area (ha)= 119.66 Ia (mm)= 9.22 U.H. Tp(hrs)= 1.47	Curve Number (CN)= 81.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00

3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00

10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 3.109

PEAK FLOW (cms)= 10.719 (i)
 TIME TO PEAK (hrs)= 47.500
 RUNOFF VOLUME (mm)= 226.865
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.796

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

 CALIB
 NASHYD (0177)
 ID= 1 DT= 5.0 min
 Area (ha)= 182.41
 Ia (mm)= 8.76
 U.H. Tp(hrs)= 1.15
 Curve Number (CN)= 81.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00

0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00

7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 6.058

PEAK FLOW (cms)= 17.984 (i)
 TIME TO PEAK (hrs)= 47.250
 RUNOFF VOLUME (mm)= 227.310
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.797

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00

9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB							
NASHYD (0179)	Area (ha)=	271.79	Curve Number (CN)=	81.0			
ID= 1 DT= 5.0 min	Ia (mm)=	9.04	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	1.20					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99

5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 8.651

PEAK FLOW (cms)= 26.372 (i)

TIME TO PEAK (hrs)= 47.333

RUNOFF VOLUME (mm)= 227.039

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.796

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\foe33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB	Area (ha)= 16.67	Curve Number (CN)= 87.0
NASHYD (0180)	Ia (mm)= 5.77	# of Linear Res.(N)= 3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)= 0.22	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00

3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00

10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 2.894

PEAK FLOW (cms)= 2.387 (i)
 TIME TO PEAK (hrs)= 46.000
 RUNOFF VOLUME (mm)= 245.577
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.861

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

 CALIB
 NASHYD (0181)
 ID= 1 DT= 5.0 min
 Area (ha)= 7.76 Curve Number (CN)= 73.0
 Ia (mm)= 9.62 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00

0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00

7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 0.539

PEAK FLOW (cms)= 0.886 (i)

TIME TO PEAK (hrs)= 46.333

RUNOFF VOLUME (mm)= 205.402

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.720

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\xf0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00

9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB							
NASHYD (0182)	Area (ha)=	38.40	Curve Number (CN)=	77.0			
ID= 1 DT= 5.0 min	Ia (mm)=	7.76	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	0.53					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99

5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 2.767

PEAK FLOW (cms)= 4.559 (i)

TIME TO PEAK (hrs)= 46.333

RUNOFF VOLUME (mm)= 217.742

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.764

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\xf0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB NASHYD (0183) ID= 1 DT= 5.0 min	Area (ha)= 123.53 Ia (mm)= 8.22 U.H. Tp(hrs)= 0.85	Curve Number (CN)= 82.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00

3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00

10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 5.551

PEAK FLOW (cms)= 13.366 (i)
 TIME TO PEAK (hrs)= 47.000
 RUNOFF VOLUME (mm)= 230.452
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.808

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

 CALIB
 NASHYD (0184)
 ID= 1 DT= 5.0 min
 Area (ha)= 134.22
 Ia (mm)= 7.28
 U.H. Tp(hrs)= 1.21
 Curve Number (CN)= 78.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00

0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00

7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 4.237

PEAK FLOW (cms)= 12.780 (i)
 TIME TO PEAK (hrs)= 47.333
 RUNOFF VOLUME (mm)= 220.849
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.775

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00

9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB							
NASHYD (0185)	Area (ha)=	62.12	Curve Number (CN)=	78.0			
ID= 1 DT= 5.0 min	Ia (mm)=	7.04	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	0.45					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99

5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 5.273

PEAK FLOW (cms)= 7.748 (i)

TIME TO PEAK (hrs)= 46.167

RUNOFF VOLUME (mm)= 221.062

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.775

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\xf0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB NASHYD (0186) ID= 1 DT= 5.0 min	Area (ha)= 219.90 Ia (mm)= 7.29 U.H. Tp(hrs)= 1.08	Curve Number (CN)= 78.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00

3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00

10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 7.777

PEAK FLOW (cms)= 21.792 (i)
 TIME TO PEAK (hrs)= 47.167
 RUNOFF VOLUME (mm)= 220.839
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.775

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

 CALIB
 NASHYD (0187)
 ID= 1 DT= 5.0 min
 Area (ha)= 65.59
 Ia (mm)= 9.10
 U.H. Tp(hrs)= 1.00
 Curve Number (CN)= 81.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00

0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00

7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 2.505

PEAK FLOW (cms)= 6.766 (i)
 TIME TO PEAK (hrs)= 47.167
 RUNOFF VOLUME (mm)= 226.981
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.796

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00

9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB	Area (ha)= 245.82	Curve Number (CN)= 83.0
NASHYD (0188)	Ia (mm)= 7.96	# of Linear Res.(N)= 3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)= 0.98	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99

5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 9.581

PEAK FLOW (cms)= 25.771 (i)

TIME TO PEAK (hrs)= 47.083

RUNOFF VOLUME (mm)= 233.321

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.818

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\xf0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB NASHYD (0189) ID= 1 DT= 5.0 min	Area (ha)= 95.14 Ia (mm)= 9.21 U.H. Tp(hrs)= 1.17	Curve Number (CN)= 81.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00

3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00

10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 3.106

PEAK FLOW (cms)= 9.320 (i)
 TIME TO PEAK (hrs)= 47.250
 RUNOFF VOLUME (mm)= 226.875
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.796

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

 CALIB
 NASHYD (0190)
 ID= 1 DT= 5.0 min
 Area (ha)= 235.00 Curve Number (CN)= 78.0
 Ia (mm)= 7.18 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.67

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00

0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00

7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 5.375

PEAK FLOW (cms)= 19.611 (i)
 TIME TO PEAK (hrs)= 47.667
 RUNOFF VOLUME (mm)= 220.945
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.775

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00

9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB							
NASHYD (0191)	Area (ha)=	59.46	Curve Number (CN)=	81.0			
ID= 1 DT= 5.0 min	Ia (mm)=	9.21	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	0.96					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99

5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 2.366

PEAK FLOW (cms)= 6.208 (i)

TIME TO PEAK (hrs)= 47.083

RUNOFF VOLUME (mm)= 226.874

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.796

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\xf0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB NASHYD (0192) ID= 1 DT= 5.0 min	Area (ha)= 65.62	Curve Number (CN)= 81.0
	Ia (mm)= 8.95	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.72	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00

3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00

10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 3.481

PEAK FLOW (cms)= 7.343 (i)
 TIME TO PEAK (hrs)= 46.667
 RUNOFF VOLUME (mm)= 227.124
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.797

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

 CALIB
 NASHYD (0193)
 ID= 1 DT= 5.0 min
 Area (ha)= 167.23
 Ia (mm)= 8.69
 U.H. Tp(hrs)= 0.92
 Curve Number (CN)= 81.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00

0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00

7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 6.943

PEAK FLOW (cms)= 17.664 (i)
 TIME TO PEAK (hrs)= 47.083
 RUNOFF VOLUME (mm)= 227.378
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.798

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00

9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB							
NASHYD (0194)	Area (ha)=	62.76	Curve Number (CN)=	83.0			
ID= 1 DT= 5.0 min	Ia (mm)=	7.79	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	1.02					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99

5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 2.350

PEAK FLOW (cms)= 6.503 (i)

TIME TO PEAK (hrs)= 47.167

RUNOFF VOLUME (mm)= 233.487

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.819

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\foe33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB NASHYD (0195) ID= 1 DT= 5.0 min	Area (ha)= 6.94	Curve Number (CN)= 71.0
	Ia (mm)= 10.29	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.36	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00

3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00

10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 0.736

PEAK FLOW (cms)= 0.861 (i)
 TIME TO PEAK (hrs)= 46.083
 RUNOFF VOLUME (mm)= 199.443
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.700

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

 CALIB
 NASHYD (0196)
 ID= 1 DT= 5.0 min
 Area (ha)= 101.46
 Ia (mm)= 6.74
 U.H. Tp(hrs)= 0.97
 Curve Number (CN)= 85.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00

0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00

7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 3.995

PEAK FLOW (cms)= 10.766 (i)
 TIME TO PEAK (hrs)= 47.083
 RUNOFF VOLUME (mm)= 239.736
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.841

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00

9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB							
NASHYD (0197)	Area (ha)=	31.41	Curve Number (CN)=	82.0			
ID= 1 DT= 5.0 min	Ia (mm)=	8.21	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	0.50					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99

5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 2.399

PEAK FLOW (cms)= 3.900 (i)

TIME TO PEAK (hrs)= 46.250

RUNOFF VOLUME (mm)= 230.451

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.808

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\xf0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB NASHYD (0198) ID= 1 DT= 5.0 min	Area (ha)= 91.37 Ia (mm)= 6.84 U.H. Tp(hrs)= 0.56	Curve Number (CN)= 79.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00

3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00

10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 6.232

PEAK FLOW (cms)= 10.827 (i)
 TIME TO PEAK (hrs)= 46.333
 RUNOFF VOLUME (mm)= 223.902
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.785

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

 CALIB
 NASHYD (0199)
 ID= 1 DT= 5.0 min
 Area (ha)=*****
 Ia (mm)= 9.01
 U.H. Tp(hrs)= 19.99
 Curve Number (CN)= 68.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00

0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00

7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 57.295

PEAK FLOW (cms)= 406.105 (i)
 TIME TO PEAK (hrs)= 63.667
 RUNOFF VOLUME (mm)= 148.071
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.519

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00

9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB
 NASHYD (0200)
 ID= 1 DT= 5.0 min

Area (ha)=*****
 Ia (mm)= 9.07
 U.H. Tp(hrs)= 19.78
 Curve Number (CN)= 74.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99

5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 64.208

PEAK FLOW (cms)= 489.095 (i)

TIME TO PEAK (hrs)= 63.333

RUNOFF VOLUME (mm)= 162.186

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.569

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\foe33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB	Area (ha)= 565.48	Curve Number (CN)= 82.0
NASHYD (0201)	Ia (mm)= 8.41	# of Linear Res.(N)= 3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)= 3.22	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00

3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00

10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 6.708

PEAK FLOW (cms)= 35.349 (i)
 TIME TO PEAK (hrs)= 48.833
 RUNOFF VOLUME (mm)= 230.269
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.808

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

 CALIB
 NASHYD (0202)
 ID= 1 DT= 5.0 min
 Area (ha)= 33.80 Curve Number (CN)= 82.0
 Ia (mm)= 8.34 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.73

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00

0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00

7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 1.768

PEAK FLOW (cms)= 3.789 (i)

TIME TO PEAK (hrs)= 46.667

RUNOFF VOLUME (mm)= 230.334

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.808

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00

9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB							
NASHYD (0203)	Area (ha)=	20.96	Curve Number (CN)=	82.0			
ID= 1 DT= 5.0 min	Ia (mm)=	8.28	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	0.53					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99

5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 1.511

PEAK FLOW (cms)= 2.560 (i)

TIME TO PEAK (hrs)= 46.333

RUNOFF VOLUME (mm)= 230.386

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.808

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\foe33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB NASHYD (0204) ID= 1 DT= 5.0 min	Area (ha)= 23.47	Curve Number (CN)= 82.0
	Ia (mm)= 8.34	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.53	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00

3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00

10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 1.691

PEAK FLOW (cms)= 2.866 (i)
 TIME TO PEAK (hrs)= 46.333
 RUNOFF VOLUME (mm)= 230.327
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.808

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

 CALIB
 NASHYD (0205)
 ID= 1 DT= 5.0 min
 Area (ha)= 8.14 Curve Number (CN)= 82.0
 Ia (mm)= 8.26 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.27

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00

0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00

7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 1.152

PEAK FLOW (cms)= 1.129 (i)

TIME TO PEAK (hrs)= 46.000

RUNOFF VOLUME (mm)= 230.279

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.808

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\xf0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00

9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB							
NASHYD (0206)	Area (ha)=	92.78	Curve Number (CN)=	82.0			
ID= 1 DT= 5.0 min	Ia (mm)=	8.33	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	0.96					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99

5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 3.691

PEAK FLOW (cms)= 9.738 (i)

TIME TO PEAK (hrs)= 47.083

RUNOFF VOLUME (mm)= 230.346

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.808

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\foe33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB NASHYD (0207) ID= 1 DT= 5.0 min	Area (ha)=3250.92 Ia (mm)= 6.75 U.H. Tp(hrs)= 7.87	Curve Number (CN)= 85.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00

3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00

10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 15.778

PEAK FLOW (cms)= 115.091 (i)
 TIME TO PEAK (hrs)= 52.417
 RUNOFF VOLUME (mm)= 239.095
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.839

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

 CALIB
 NASHYD (0208)
 ID= 1 DT= 5.0 min
 Area (ha)=*****
 Ia (mm)= 9.79
 U.H. Tp(hrs)= 27.50
 Curve Number (CN)= 66.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00

0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00

7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 94.570

PEAK FLOW (cms)= 666.880 (i)
 TIME TO PEAK (hrs)= 70.833
 RUNOFF VOLUME (mm)= 106.136
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.372

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00

9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB							
NASHYD	(0209)	Area	(ha)= 217.11	Curve Number	(CN)= 86.0		
ID= 1	DT= 5.0 min	Ia	(mm)= 6.32	# of Linear Res.	(N)= 3.00		
		U.H. Tp	(hrs)= 1.29				

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99

5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 6.428

PEAK FLOW (cms)= 20.995 (i)

TIME TO PEAK (hrs)= 47.333

RUNOFF VOLUME (mm)= 242.755

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.852

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\foe33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB NASHYD (0210) ID= 1 DT= 5.0 min	Area (ha)= 40.54	Curve Number (CN)= 87.0
	Ia (mm)= 5.73	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.75	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00

3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00

10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 2.064

PEAK FLOW (cms)= 4.614 (i)
 TIME TO PEAK (hrs)= 46.750
 RUNOFF VOLUME (mm)= 245.936
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.863

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

 CALIB
 NASHYD (0211)
 ID= 1 DT= 5.0 min
 Area (ha)= 30.14 Curve Number (CN)= 87.0
 Ia (mm)= 5.71 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.02

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00

0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00

7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 1.128

PEAK FLOW (cms)= 3.175 (i)

TIME TO PEAK (hrs)= 47.167

RUNOFF VOLUME (mm)= 245.958

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.863

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\xf0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00

9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB							
NASHYD (0212)	Area (ha)=2201.68	Curve Number (CN)= 78.0					
ID= 1 DT= 5.0 min	Ia (mm)= 7.35	# of Linear Res.(N)= 3.00					
	U.H. Tp(hrs)= 5.72						

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99

5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 14.702

PEAK FLOW (cms)= 93.486 (i)

TIME TO PEAK (hrs)= 50.750

RUNOFF VOLUME (mm)= 220.753

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.774

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\xf0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB NASHYD (0213) ID= 1 DT= 5.0 min	Area (ha)= 48.97 Ia (mm)= 5.96 U.H. Tp(hrs)= 0.49	Curve Number (CN)= 86.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00

3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00

10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 3.817

PEAK FLOW (cms)= 6.228 (i)
 TIME TO PEAK (hrs)= 46.250
 RUNOFF VOLUME (mm)= 243.096
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.853

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\foe33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

 CALIB
 NASHYD (0214)
 ID= 1 DT= 5.0 min
 Area (ha)= 28.42 Curve Number (CN)= 82.0
 Ia (mm)= 8.56 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.46

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00

0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00

7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 2.360

PEAK FLOW (cms)= 3.603 (i)
 TIME TO PEAK (hrs)= 46.167
 RUNOFF VOLUME (mm)= 230.106
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.807

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00

9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB
 NASHYD (0215)
 ID= 1 DT= 5.0 min

Area (ha)= 106.01 Curve Number (CN)= 77.0
 Ia (mm)= 7.50 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.16

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99

5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 3.490

PEAK FLOW (cms)= 10.188 (i)

TIME TO PEAK (hrs)= 47.250

RUNOFF VOLUME (mm)= 217.998

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.765

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\foe33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB	Area (ha)= 84.73	Curve Number (CN)= 81.6
NASHYD (0216)	Ia (mm)= 8.60	# of Linear Res.(N)= 3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)= 0.39	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00

3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00

10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 8.298

PEAK FLOW (cms)= 11.128 (i)

TIME TO PEAK (hrs)= 46.083

RUNOFF VOLUME (mm)= 229.006

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.803

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

FINISH
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V   V   I   SSSSS U   U   A   L           (v 5.2.2003)
V   V   I   SS   U   U   A A   L
V   V   I   SS   U   U   AAAAA L
V   V   I   SS   U   U   A   A   L
VV    I   SSSSS UUUUU A   A   LLLLL

```

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    000   TTTTT TTTTT H   H   Y   Y   M   M   000   TM
O   O   T   T   H   H   Y   Y   MM MM O   O
O   O   T   T   H   H   Y   M   M   O   O
    000   T   T   H   H   Y   M   M   000

```

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 5.2\vo2\voin.dat
 Output filename: C:\Users\p001130E\AppData\Local\Civica\XH5\90177c49-c212-41e8-9d24-aaf9b547bf89\49d0169b-1
 Summary filename: C:\Users\p001130E\AppData\Local\Civica\XH5\90177c49-c212-41e8-9d24-aaf9b547bf89\49d0169b-1

DATE: 10/10/2019 TIME: 05:52:51

USER:

COMMENTS: _____

 ** SIMULATION : 100yr_SCS_24hr **

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\7aa8a9f
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB	Area (ha)= 31.31	Curve Number (CN)= 76.0
NASHYD (0174)	Ia (mm)= 8.04	# of Linear Res.(N)= 3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)= 1.45	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.825

PEAK FLOW (cms)= 1.541 (i)
 TIME TO PEAK (hrs)= 13.750
 RUNOFF VOLUME (mm)= 79.337
 TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.580

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
Local\Temp\
63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
NASHYD (0175)
ID= 1 DT= 5.0 min

Area (ha)= 105.98 Curve Number (CN)= 82.0
Ia (mm)= 8.60 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 1.48

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64

2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 2.735

PEAK FLOW (cms)= 5.865 (i)
 TIME TO PEAK (hrs)= 13.750
 RUNOFF VOLUME (mm)= 89.343
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.653

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64

5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 NASHYD (0176)
 ID= 1 DT= 5.0 min

Area (ha)= 119.66 Curve Number (CN)= 81.0
 Ia (mm)= 9.22 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.47

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64

5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 3.109

PEAK FLOW (cms)= 6.474 (i)
 TIME TO PEAK (hrs)= 13.750
 RUNOFF VOLUME (mm)= 86.966
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.636

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB NASHYD (0177) ID= 1 DT= 5.0 min	Area (ha)= 182.41 Ia (mm)= 8.76 U.H. Tp(hrs)= 1.15	Curve Number (CN)= 81.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46

1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 6.058

PEAK FLOW (cms)= 11.969 (i)

TIME TO PEAK (hrs)= 13.333

RUNOFF VOLUME (mm)= 87.380

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.639

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData
	ata\Local\Temp\
Ptotal=136.80 mm	63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46

1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 NASHYD (0179)
 ID= 1 DT= 5.0 min

Area (ha)= 271.79 Curve Number (CN)= 81.0
 Ia (mm)= 9.04 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.20

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64

4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 8.651

PEAK FLOW (cms)= 17.226 (i)
 TIME TO PEAK (hrs)= 13.417
 RUNOFF VOLUME (mm)= 87.128
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.637

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 NASHYD (0180)
 ID= 1 DT= 5.0 min

Area (ha)= 16.67 Curve Number (CN)= 87.0
 Ia (mm)= 5.77 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.22

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 2.894

PEAK FLOW (cms)= 4.209 (i)
 TIME TO PEAK (hrs)= 12.333
 RUNOFF VOLUME (mm)= 101.467
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.742

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
ata\Local\Temp\
63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
NASHYD (0181)
ID= 1 DT= 5.0 min

Area (ha)= 7.76 Curve Number (CN)= 73.0
Ia (mm)= 9.62 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64

2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.539

PEAK FLOW (cms)= 0.726 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 73.145
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.535

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64

5.75	2.19	12.00	40.49	18.25	2.46
6.00	2.19	12.25	167.44	18.50	2.46
6.25	2.19	12.50	19.70	18.75	2.46

CALIB					
NASHYD (0182)	Area (ha)=	38.40	Curve Number (CN)=	77.0	
ID= 1 DT= 5.0 min	Ia (mm)=	7.76	# of Linear Res.(N)=	3.00	
	U.H. Tp(hrs)=	0.53			

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64

5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 2.767

PEAK FLOW (cms)= 4.128 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 81.258
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.594

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB	Area (ha)= 123.53	Curve Number (CN)= 82.0
NASHYD (0183)	Ia (mm)= 8.22	# of Linear Res.(N)= 3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)= 0.85	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46

1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 5.551

PEAK FLOW (cms)= 10.473 (i)
 TIME TO PEAK (hrs)= 13.000
 RUNOFF VOLUME (mm)= 89.688
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.656

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	13.00	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46

1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 NASHYD (0184)
 ID= 1 DT= 5.0 min

Area (ha)= 134.22 Curve Number (CN)= 78.0
 Ia (mm)= 7.28 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.21

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64

4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 4.237

PEAK FLOW (cms)= 8.006 (i)
 TIME TO PEAK (hrs)= 13.417
 RUNOFF VOLUME (mm)= 83.393
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.610

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 CALIB
 NASHYD (0185)
 ID= 1 DT= 5.0 min
 Area (ha)= 62.12
 Ia (mm)= 7.04
 U.H. Tp(hrs)= 0.45
 Curve Number (CN)= 78.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr

0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 5.273

PEAK FLOW (cms)= 7.742 (i)
TIME TO PEAK (hrs)= 12.583
RUNOFF VOLUME (mm)= 83.596
TOTAL RAINFALL (mm)= 136.800
RUNOFF COEFFICIENT = 0.611

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
ata\Local\Temp\
63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
NASHYD (0186)
ID= 1 DT= 5.0 min

Area (ha)= 219.90 Curve Number (CN)= 78.0
Ia (mm)= 7.29 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 1.08

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64

2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 7.777

PEAK FLOW (cms)= 14.297 (i)
 TIME TO PEAK (hrs)= 13.250
 RUNOFF VOLUME (mm)= 83.384
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.610

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		

CALIB
 NASHYD (0187)
 ID= 1 DT= 5.0 min

Area (ha)= 65.59 Curve Number (CN)= 81.0
 Ia (mm)= 9.10 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64

5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 2.505

PEAK FLOW (cms)= 4.775 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 87.074
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.637

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\xf7aa8a9f
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB NASHYD (0188) ID= 1 DT= 5.0 min	Area (ha)= 245.82 Ia (mm)= 7.96 U.H. Tp(hrs)= 0.98	Curve Number (CN)= 83.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46

1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 9.581

PEAK FLOW (cms)= 19.170 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 91.780
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.671

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64

2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
NASHYD (0189)
ID= 1 DT= 5.0 min

Area (ha)= 95.14 Curve Number (CN)= 81.0
Ia (mm)= 9.21 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 1.17

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64

4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 3.106

PEAK FLOW (cms)= 6.135 (i)
 TIME TO PEAK (hrs)= 13.417
 RUNOFF VOLUME (mm)= 86.975
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.636

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB NASHYD (0190) ID= 1 DT= 5.0 min	Area (ha)= 235.00 Ia (mm)= 7.18 U.H. Tp(hrs)= 1.67	Curve Number (CN)= 78.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46

0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 5.375

PEAK FLOW (cms)= 10.944 (i)

TIME TO PEAK (hrs)= 13.917

RUNOFF VOLUME (mm)= 83.480

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.610

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
NASHYD (0191)
ID= 1 DT= 5.0 min

Area (ha)= 59.46 Curve Number (CN)= 81.0
Ia (mm)= 9.21 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.96

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64

3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 2.366

PEAK FLOW (cms)= 4.459 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 86.975
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.636

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	13.00	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 NASHYD (0192)
 ID= 1 DT= 5.0 min

Area (ha)= 65.62 Curve Number (CN)= 81.0
 Ia (mm)= 8.95 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.72

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64

5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 3.481

PEAK FLOW (cms)= 6.114 (i)
 TIME TO PEAK (hrs)= 12.833
 RUNOFF VOLUME (mm)= 87.208
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.637

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\7aa8a9f
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB	Area (ha)= 167.23	Curve Number (CN)= 81.0
NASHYD (0193)	Ia (mm)= 8.69	# of Linear Res.(N)= 3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)= 0.92	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46

1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 6.943

PEAK FLOW (cms)= 13.011 (i)
 TIME TO PEAK (hrs)= 13.083
 RUNOFF VOLUME (mm)= 87.442
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.639

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64

2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 NASHYD (0194)
 ID= 1 DT= 5.0 min

Area (ha)= 62.76 Curve Number (CN)= 83.0
 Ia (mm)= 7.79 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.02

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64

4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 2.350

PEAK FLOW (cms)= 4.751 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 91.936
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.672

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 CALIB
 NASHYD (0195)
 ID= 1 DT= 5.0 min
 Area (ha)= 6.94
 Ia (mm)= 10.29
 U.H. Tp(hrs)= 0.36
 Curve Number (CN)= 71.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46

0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.736

PEAK FLOW (cms)= 0.837 (i)
 TIME TO PEAK (hrs)= 12.500
 RUNOFF VOLUME (mm)= 69.495
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.508

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

Ptotal=136.80 mm

Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
NASHYD (0196)
ID= 1 DT= 5.0 min

Area (ha)= 101.46 Curve Number (CN)= 85.0
Ia (mm)= 6.74 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.97

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64

3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 3.995

PEAK FLOW (cms)= 8.389 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 96.725
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.707

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 NASHYD (0197)
 ID= 1 DT= 5.0 min

Area (ha)= 31.41 Curve Number (CN)= 82.0
 Ia (mm)= 8.21 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.50

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64

6.083 2.19 |12.167 167.44 |18.250 2.46 |

Unit Hyd Qpeak (cms)= 2.399

PEAK FLOW (cms)= 3.923 (i)
 TIME TO PEAK (hrs)= 12.583
 RUNOFF VOLUME (mm)= 89.693
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.656

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
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 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 NASHYD (0198)
 ID= 1 DT= 5.0 min

Area (ha)= 91.37 Curve Number (CN)= 79.0
 Ia (mm)= 6.84 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.56

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46

1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 6.232

PEAK FLOW (cms)= 9.934 (i)

TIME TO PEAK (hrs)= 12.667

RUNOFF VOLUME (mm)= 85.523

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.625

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=136.80 mm

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63f7ec8c-48b2-4828-99d7-7965400ec292\xf7aa8a9f
Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64

3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 NASHYD (0199)
 ID= 1 DT= 5.0 min

Area (ha)=***** Curve Number (CN)= 68.0
 Ia (mm)= 9.01 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 19.99

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64

4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 57.295

PEAK FLOW (cms)= 144.520 (i)
 TIME TO PEAK (hrs)= 34.333
 RUNOFF VOLUME (mm)= 63.916
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.467

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB NASHYD (0200) ID= 1 DT= 5.0 min	Area (ha)=***** Ia (mm)= 9.07 U.H. Tp(hrs)= 19.78	Curve Number (CN)= 74.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46

0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 64.208

PEAK FLOW (cms)= 184.411 (i)
 TIME TO PEAK (hrs)= 34.000
 RUNOFF VOLUME (mm)= 72.933
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.533

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f

| Ptotal=136.80 mm | Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
NASHYD (0201)
ID= 1 DT= 5.0 min

Area (ha)= 565.48 Curve Number (CN)= 82.0
Ia (mm)= 8.41 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 3.22

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64

3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 6.708

PEAK FLOW (cms)= 16.965 (i)
 TIME TO PEAK (hrs)= 15.750
 RUNOFF VOLUME (mm)= 89.516
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.654

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	13.00	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

NASHYD (0202) | Area (ha)= 33.80 Curve Number (CN)= 82.0
 ID= 1 DT= 5.0 min | Ia (mm)= 8.34 # of Linear Res.(N)= 3.00
 ----- | U.H. Tp(hrs)= 0.73

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.768

PEAK FLOW (cms)= 3.203 (i)

TIME TO PEAK (hrs)= 12.917

RUNOFF VOLUME (mm)= 89.578

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.655

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
NASHYD (0203)
ID= 1 DT= 5.0 min

Area (ha)= 20.96 Curve Number (CN)= 82.0
Ia (mm)= 8.28 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.53

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46

2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.511

PEAK FLOW (cms)= 2.515 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 89.630
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.655

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64

3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 NASHYD (0204)
 ID= 1 DT= 5.0 min

Area (ha)= 23.47 Curve Number (CN)= 82.0
 Ia (mm)= 8.34 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.53

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64

4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.691

PEAK FLOW (cms)= 2.814 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 89.576
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.655

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 CALIB
 NASHYD (0205)
 ID= 1 DT= 5.0 min
 Area (ha)= 8.14 Curve Number (CN)= 82.0
 Ia (mm)= 8.26 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.27

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46

0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.152

PEAK FLOW (cms)= 1.569 (i)
 TIME TO PEAK (hrs)= 12.417
 RUNOFF VOLUME (mm)= 89.599
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.655

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\xf7aa8a9f
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB			
NASHYD (0206)	Area (ha)=	92.78	Curve Number (CN)= 82.0
ID= 1 DT= 5.0 min	Ia (mm)=	8.33	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.96	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64

3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 3.691

PEAK FLOW (cms)= 7.163 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 89.588
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.655

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB NASHYD (0207) ID= 1 DT= 5.0 min	Area (ha)=3250.92 Ia (mm)= 6.75	Curve Number (CN)= 85.0 # of Linear Res.(N)= 3.00
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U.H. Tp(hrs)= 7.87

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 15.778

PEAK FLOW (cms)= 51.264 (i)
 TIME TO PEAK (hrs)= 21.167
 RUNOFF VOLUME (mm)= 96.715
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.707

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 CALIB
 NASHYD (0208)
 ID= 1 DT= 5.0 min
 Area (ha)=*****
 Ia (mm)= 9.79
 U.H. Tp(hrs)= 27.50
 Curve Number (CN)= 66.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64

2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 94.570

PEAK FLOW (cms)= 229.330 (i)
 TIME TO PEAK (hrs)= 41.750
 RUNOFF VOLUME (mm)= 54.881
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.401

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64

4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
NASHYD (0209)
ID= 1 DT= 5.0 min

Area (ha)= 217.11 Curve Number (CN)= 86.0
Ia (mm)= 6.32 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 1.29

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64

5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 6.428

PEAK FLOW (cms)= 14.810 (i)
 TIME TO PEAK (hrs)= 13.500
 RUNOFF VOLUME (mm)= 99.081
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.724

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB NASHYD (0210) ID= 1 DT= 5.0 min	Area (ha)= 40.54 Ia (mm)= 5.73 U.H. Tp(hrs)= 0.75	Curve Number (CN)= 87.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46

0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 2.064

PEAK FLOW (cms)= 4.259 (i)
 TIME TO PEAK (hrs)= 12.917
 RUNOFF VOLUME (mm)= 101.637
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.743

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr

0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 NASHYD (0211)
 ID= 1 DT= 5.0 min

Area (ha)= 30.14 Curve Number (CN)= 87.0
 Ia (mm)= 5.71 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.02

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64

3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.128

PEAK FLOW (cms)= 2.517 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 101.657
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.743

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	13.00	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 NASHYD (0212)
 ID= 1 DT= 5.0 min

Area (ha)=2201.68 Curve Number (CN)= 78.0
 Ia (mm)= 7.35 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 5.72

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 14.702

PEAK FLOW (cms)= 38.462 (i)
 TIME TO PEAK (hrs)= 18.750

RUNOFF VOLUME (mm)= 83.332
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.609

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 CALIB
 NASHYD (0213)
 ID= 1 DT= 5.0 min
 Area (ha)= 48.97
 Ia (mm)= 5.96
 U.H. Tp(hrs)= 0.49
 Curve Number (CN)= 86.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64

2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 3.817

PEAK FLOW (cms)= 6.871 (i)
 TIME TO PEAK (hrs)= 12.583
 RUNOFF VOLUME (mm)= 99.415
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.727

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64

4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 NASHYD (0214)
 ID= 1 DT= 5.0 min

Area (ha)= 28.42 Curve Number (CN)= 82.0
 Ia (mm)= 8.56 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.46

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64

5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 2.360

PEAK FLOW (cms)= 3.777 (i)
 TIME TO PEAK (hrs)= 12.583
 RUNOFF VOLUME (mm)= 89.373
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.653

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 CALIB
 NASHYD (0215)
 ID= 1 DT= 5.0 min
 Area (ha)= 106.01
 Ia (mm)= 7.50
 U.H. Tp(hrs)= 1.16
 Curve Number (CN)= 77.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46

1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 3.490

PEAK FLOW (cms)= 6.366 (i)
 TIME TO PEAK (hrs)= 13.333
 RUNOFF VOLUME (mm)= 81.486
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.596

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM		Filename: C:\Users\p001130E\AppData					
		ata\Local\Temp\					
		63f7ec8c-48b2-4828-99d7-7965400ec292\f7aa8a9f					
Ptotal=136.80 mm		Comments: 100yr 24hr 15min SCS					
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46

0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 NASHYD (0216)
 ID= 1 DT= 5.0 min

Area (ha)= 84.73 Curve Number (CN)= 81.6
 Ia (mm)= 8.60 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.39

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64

3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 8.298

PEAK FLOW (cms)= 12.601 (i)
 TIME TO PEAK (hrs)= 12.500
 RUNOFF VOLUME (mm)= 88.600
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.648

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.



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V   V   I   SSSSS U   U   A   L           (v 5.2.2003)
V   V   I   SS   U   U   A A   L
V   V   I   SS   U   U   AAAAA L
V   V   I   SS   U   U   A   A   L
VV    I   SSSSS UUUUU A   A   LLLLL

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    000   TTTTT TTTTT H   H   Y   Y   M   M   000   TM
O   O   T   T   H   H   Y   Y   MM MM O   O
O   O   T   T   H   H   Y   M   M   O   O
    000   T   T   H   H   Y   M   M   000

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 5.2\vo2\voin.dat
 Output filename: C:\Users\p001130E\AppData\Local\Civica\XH5\90177c49-c212-41e8-9d24-aaf9b547bf89\543ebb08-a
 Summary filename: C:\Users\p001130E\AppData\Local\Civica\XH5\90177c49-c212-41e8-9d24-aaf9b547bf89\543ebb08-a

DATE: 10/10/2019 TIME: 05:52:53

USER:

COMMENTS: _____

 ** SIMULATION : 50yr_scs_24hr **

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-----
| READ STORM |
| Ptotal=127.20 mm |
|-----|
| Filename: C:\Users\p001130E\AppData |
| ata\Local\Temp\ |
| 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d |
| Comments: 50yr 24hr 15min SCS |

```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

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| CALIB |
| NASHYD ( 0174) |
| ID= 1 DT= 5.0 min |
|-----|
| Area (ha)= 31.31 |
| Ia (mm)= 8.04 |
| U.H. Tp(hrs)= 1.45 |
| Curve Number (CN)= 76.0 |
| # of Linear Res.(N)= 3.00 |

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 0.825

PEAK FLOW (cms)= 1.381 (i)
 TIME TO PEAK (hrs)= 13.750
 RUNOFF VOLUME (mm)= 71.220
 TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.560

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
ata\Local\Temp\
63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
NASHYD (0175)
ID= 1 DT= 5.0 min

Area (ha)= 105.98 Curve Number (CN)= 82.0
Ia (mm)= 8.60 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 1.48

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53

2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 2.735

PEAK FLOW (cms)= 5.291 (i)
 TIME TO PEAK (hrs)= 13.750
 RUNOFF VOLUME (mm)= 80.674
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.634

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53

5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
 NASHYD (0176)
 ID= 1 DT= 5.0 min

Area (ha)= 119.66 Curve Number (CN)= 81.0
 Ia (mm)= 9.22 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.47

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53

5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 3.109

PEAK FLOW (cms)= 5.828 (i)
 TIME TO PEAK (hrs)= 13.750
 RUNOFF VOLUME (mm)= 78.392
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.616

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
Ptotal=127.20 mm	Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB NASHYD (0177) ID= 1 DT= 5.0 min	Area (ha)= 182.41 Ia (mm)= 8.76 U.H. Tp(hrs)= 1.15	Curve Number (CN)= 81.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29

1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 6.058

PEAK FLOW (cms)= 10.780 (i)
 TIME TO PEAK (hrs)= 13.333
 RUNOFF VOLUME (mm)= 78.800
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.619

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29

1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
 NASHYD (0179)
 ID= 1 DT= 5.0 min

Area (ha)= 271.79 Curve Number (CN)= 81.0
 Ia (mm)= 9.04 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.20

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53

4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 8.651

PEAK FLOW (cms)= 15.513 (i)
 TIME TO PEAK (hrs)= 13.417
 RUNOFF VOLUME (mm)= 78.552
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.618

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

 CALIB
 NASHYD (0180)
 ID= 1 DT= 5.0 min
 Area (ha)= 16.67
 Ia (mm)= 5.77
 U.H. Tp(hrs)= 0.22
 Curve Number (CN)= 87.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 2.894

PEAK FLOW (cms)= 3.844 (i)
TIME TO PEAK (hrs)= 12.333
RUNOFF VOLUME (mm)= 92.393
TOTAL RAINFALL (mm)= 127.200
RUNOFF COEFFICIENT = 0.726

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
Local\Temp\
63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
NASHYD (0181)
ID= 1 DT= 5.0 min

Area (ha)= 7.76 Curve Number (CN)= 73.0
Ia (mm)= 9.62 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53

2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 0.539

PEAK FLOW (cms)= 0.646 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 65.356
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.514

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53

5.75	2.04	12.00	37.65	18.25	2.29
6.00	2.04	12.25	155.69	18.50	2.29
6.25	2.04	12.50	18.32	18.75	2.29

CALIB					
NASHYD (0182)	Area (ha)=	38.40	Curve Number (CN)=	77.0	
ID= 1 DT= 5.0 min	Ia (mm)=	7.76	# of Linear Res.(N)=	3.00	
	U.H. Tp(hrs)=	0.53			

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53

5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 2.767

PEAK FLOW (cms)= 3.705 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 73.039
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.574

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
Ptotal=127.20 mm	Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB NASHYD (0183) ID= 1 DT= 5.0 min	Area (ha)= 123.53 Ia (mm)= 8.22 U.H. Tp(hrs)= 0.85	Curve Number (CN)= 82.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29

1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 5.551

PEAK FLOW (cms)= 9.455 (i)
 TIME TO PEAK (hrs)= 13.000
 RUNOFF VOLUME (mm)= 81.014
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.637

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29

1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
 NASHYD (0184)
 ID= 1 DT= 5.0 min

Area (ha)= 134.22 Curve Number (CN)= 78.0
 Ia (mm)= 7.28 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.21

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53

4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 4.237

PEAK FLOW (cms)= 7.195 (i)
 TIME TO PEAK (hrs)= 13.417
 RUNOFF VOLUME (mm)= 75.072
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.590

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

 CALIB
 NASHYD (0185)
 ID= 1 DT= 5.0 min
 Area (ha)= 62.12
 Ia (mm)= 7.04
 U.H. Tp(hrs)= 0.45
 Curve Number (CN)= 78.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr

0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 5.273

PEAK FLOW (cms)= 6.964 (i)
 TIME TO PEAK (hrs)= 12.583
 RUNOFF VOLUME (mm)= 75.272
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.592

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
ata\Local\Temp\
63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
NASHYD (0186)
ID= 1 DT= 5.0 min

Area (ha)= 219.90 Curve Number (CN)= 78.0
Ia (mm)= 7.29 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 1.08

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53

2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 7.777

PEAK FLOW (cms)= 12.848 (i)
 TIME TO PEAK (hrs)= 13.250
 RUNOFF VOLUME (mm)= 75.063
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.590

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		

CALIB
 NASHYD (0187)
 ID= 1 DT= 5.0 min

Area (ha)= 65.59 Curve Number (CN)= 81.0
 Ia (mm)= 9.10 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53

5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 2.505

PEAK FLOW (cms)= 4.299 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 78.498
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.617

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
Ptotal=127.20 mm	Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB	Area (ha)= 245.82	Curve Number (CN)= 83.0
NASHYD (0188)	Ia (mm)= 7.96	# of Linear Res.(N)= 3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)= 0.98	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29

1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 9.581

PEAK FLOW (cms)= 17.337 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 83.019
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.653

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53

2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
NASHYD (0189)
ID= 1 DT= 5.0 min

Area (ha)= 95.14 Curve Number (CN)= 81.0
Ia (mm)= 9.21 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 1.17

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53

4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 3.106

PEAK FLOW (cms)= 5.525 (i)
 TIME TO PEAK (hrs)= 13.417
 RUNOFF VOLUME (mm)= 78.401
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.616

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

 CALIB
 NASHYD (0190)
 ID= 1 DT= 5.0 min
 Area (ha)= 235.00
 Ia (mm)= 7.18
 U.H. Tp(hrs)= 1.67
 Curve Number (CN)= 78.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29

0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 5.375

PEAK FLOW (cms)= 9.834 (i)

TIME TO PEAK (hrs)= 13.917

RUNOFF VOLUME (mm)= 75.158

TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.591

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
 NASHYD (0191)
 ID= 1 DT= 5.0 min

Area (ha)= 59.46 Curve Number (CN)= 81.0
 Ia (mm)= 9.21 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.96

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53

3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 2.366

PEAK FLOW (cms)= 4.016 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 78.400
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.616

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	13.00	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
 NASHYD (0192)
 ID= 1 DT= 5.0 min

Area (ha)= 65.62 Curve Number (CN)= 81.0
 Ia (mm)= 8.95 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.72

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.33	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53

5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 3.481

PEAK FLOW (cms)= 5.508 (i)
 TIME TO PEAK (hrs)= 12.917
 RUNOFF VOLUME (mm)= 78.631
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.618

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
Ptotal=127.20 mm	Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB	Area (ha)= 167.23	Curve Number (CN)= 81.0
NASHYD (0193)	Ia (mm)= 8.69	# of Linear Res.(N)= 3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)= 0.92	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29

1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 6.943

PEAK FLOW (cms)= 11.723 (i)
 TIME TO PEAK (hrs)= 13.083
 RUNOFF VOLUME (mm)= 78.862
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.620

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData
 Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53

2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
 NASHYD (0194)
 ID= 1 DT= 5.0 min

Area (ha)= 62.76 Curve Number (CN)= 83.0
 Ia (mm)= 7.79 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.02

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53

4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 2.350

PEAK FLOW (cms)= 4.296 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 83.173
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.654

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

 CALIB
 NASHYD (0195)
 ID= 1 DT= 5.0 min
 Area (ha)= 6.94
 Ia (mm)= 10.29
 U.H. Tp(hrs)= 0.36
 Curve Number (CN)= 71.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29

0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 0.736

PEAK FLOW (cms)= 0.744 (i)
 TIME TO PEAK (hrs)= 12.500
 RUNOFF VOLUME (mm)= 61.930
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.487

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

Ptotal=127.20 mm

Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
NASHYD (0196)
ID= 1 DT= 5.0 min

Area (ha)= 101.46 Curve Number (CN)= 85.0
Ia (mm)= 6.74 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.97

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53

3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 3.995

PEAK FLOW (cms)= 7.620 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 87.792
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.690

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
 NASHYD (0197)
 ID= 1 DT= 5.0 min

Area (ha)= 31.41 Curve Number (CN)= 82.0
 Ia (mm)= 8.21 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.50

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53

6.083 2.04 |12.167 155.69 |18.250 2.29 |

Unit Hyd Qpeak (cms)= 2.399

PEAK FLOW (cms)= 3.542 (i)
 TIME TO PEAK (hrs)= 12.583
 RUNOFF VOLUME (mm)= 81.020
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.637

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
Ptotal=127.20 mm	Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB NASHYD (0198) ID= 1 DT= 5.0 min	Area (ha)= 91.37 Ia (mm)= 6.84 U.H. Tp(hrs)= 0.56	Curve Number (CN)= 79.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29

1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 6.232

PEAK FLOW (cms)= 8.945 (i)

TIME TO PEAK (hrs)= 12.667

RUNOFF VOLUME (mm)= 77.103

TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.606

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
ata\Local\Temp\
63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53

3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
NASHYD (0199)
ID= 1 DT= 5.0 min

Area (ha)=***** Curve Number (CN)= 68.0
Ia (mm)= 9.01 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 19.99

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53

4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 57.295

PEAK FLOW (cms)= 128.604 (i)
 TIME TO PEAK (hrs)= 34.333
 RUNOFF VOLUME (mm)= 56.875
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.447

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
Ptotal=127.20 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB	Area (ha)=*****	Curve Number (CN)= 74.0
NASHYD (0200)	Ia (mm)= 9.07	# of Linear Res.(N)= 3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)= 19.78	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29

0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 64.208

PEAK FLOW (cms)= 165.024 (i)
 TIME TO PEAK (hrs)= 34.083
 RUNOFF VOLUME (mm)= 65.263
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.513

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d

| Ptotal=127.20 mm |

Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
NASHYD (0201)
ID= 1 DT= 5.0 min

Area (ha)= 565.48 Curve Number (CN)= 82.0
Ia (mm)= 8.41 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 3.22

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53

3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 6.708

PEAK FLOW (cms)= 15.299 (i)
 TIME TO PEAK (hrs)= 15.750
 RUNOFF VOLUME (mm)= 80.844
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.636

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

NASHYD (0202) | Area (ha)= 33.80 Curve Number (CN)= 82.0
 ID= 1 DT= 5.0 min | Ia (mm)= 8.34 # of Linear Res.(N)= 3.00
 ----- | U.H. Tp(hrs)= 0.73

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 1.768

PEAK FLOW (cms)= 2.893 (i)

TIME TO PEAK (hrs)= 12.917

RUNOFF VOLUME (mm)= 80.906

TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.636

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
NASHYD (0203)
ID= 1 DT= 5.0 min

Area (ha)= 20.96 Curve Number (CN)= 82.0
Ia (mm)= 8.28 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.53

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29

2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 1.511

PEAK FLOW (cms)= 2.271 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 80.958
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.636

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53

3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
 NASHYD (0204)
 ID= 1 DT= 5.0 min

Area (ha)= 23.47 Curve Number (CN)= 82.0
 Ia (mm)= 8.34 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.53

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53

4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 1.691

PEAK FLOW (cms)= 2.542 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 80.904
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.636

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

 CALIB
 NASHYD (0205)
 ID= 1 DT= 5.0 min
 Area (ha)= 8.14 Curve Number (CN)= 82.0
 Ia (mm)= 8.26 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.27

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29

0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 1.152

PEAK FLOW (cms)= 1.419 (i)
 TIME TO PEAK (hrs)= 12.417
 RUNOFF VOLUME (mm)= 80.931
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.636

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
Ptotal=127.20 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
 NASHYD (0206)
 ID= 1 DT= 5.0 min

Area (ha)= 92.78 Curve Number (CN)= 82.0
 Ia (mm)= 8.33 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.96

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53

3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 3.691

PEAK FLOW (cms)= 6.467 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 80.916
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.636

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

 CALIB
 NASHYD (0207)
 ID= 1 DT= 5.0 min
 Area (ha)=3250.92
 Ia (mm)= 6.75
 Curve Number (CN)= 85.0
 # of Linear Res.(N)= 3.00

U.H. Tp(hrs)= 7.87

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 15.778

PEAK FLOW (cms)= 46.505 (i)
 TIME TO PEAK (hrs)= 21.250
 RUNOFF VOLUME (mm)= 87.783
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.690

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

 CALIB
 NASHYD (0208)
 ID= 1 DT= 5.0 min
 Area (ha)=*****
 Ia (mm)= 9.79
 U.H. Tp(hrs)= 27.50
 Curve Number (CN)= 66.0
 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53

2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 94.570

PEAK FLOW (cms)= 203.542 (i)
 TIME TO PEAK (hrs)= 41.833
 RUNOFF VOLUME (mm)= 48.697
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.383

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53

4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
NASHYD (0209)
ID= 1 DT= 5.0 min

Area (ha)= 217.11 Curve Number (CN)= 86.0
Ia (mm)= 6.32 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 1.29

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53

5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 6.428

PEAK FLOW (cms)= 13.472 (i)
 TIME TO PEAK (hrs)= 13.500
 RUNOFF VOLUME (mm)= 90.070
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.708

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
Ptotal=127.20 mm	Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB NASHYD (0210) ID= 1 DT= 5.0 min	Area (ha)= 40.54 Ia (mm)= 5.73 U.H. Tp(hrs)= 0.75	Curve Number (CN)= 87.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29

0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 2.064

PEAK FLOW (cms)= 3.885 (i)
 TIME TO PEAK (hrs)= 12.917
 RUNOFF VOLUME (mm)= 92.551
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.728

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm
 Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr

0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
 NASHYD (0211)
 ID= 1 DT= 5.0 min

Area (ha)= 30.14 Curve Number (CN)= 87.0
 Ia (mm)= 5.71 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.02

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53

3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 1.128

PEAK FLOW (cms)= 2.295 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 92.570
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.728

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
Ptotal=127.20 mm	Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	13.00	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB NASHYD (0212) ID= 1 DT= 5.0 min	Area (ha)=2201.68 Ia (mm)= 7.35 U.H. Tp(hrs)= 5.72	Curve Number (CN)= 78.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 14.702

PEAK FLOW (cms)= 34.570 (i)
 TIME TO PEAK (hrs)= 18.750

RUNOFF VOLUME (mm)= 75.012
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.590

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
 NASHYD (0213)
 ID= 1 DT= 5.0 min

Area (ha)= 48.97 Curve Number (CN)= 86.0
 Ia (mm)= 5.96 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.49

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53

2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 3.817

PEAK FLOW (cms)= 6.255 (i)
 TIME TO PEAK (hrs)= 12.583
 RUNOFF VOLUME (mm)= 90.402
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.711

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53

4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
 NASHYD (0214)
 ID= 1 DT= 5.0 min

Area (ha)= 28.42 Curve Number (CN)= 82.0
 Ia (mm)= 8.56 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.46

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53

5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 2.360

PEAK FLOW (cms)= 3.411 (i)
 TIME TO PEAK (hrs)= 12.583
 RUNOFF VOLUME (mm)= 80.704
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.634

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d
Ptotal=127.20 mm	Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB	Area (ha)= 106.01	Curve Number (CN)= 77.0
NASHYD (0215)	Ia (mm)= 7.50	# of Linear Res.(N)= 3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)= 1.16	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29

1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 3.490

PEAK FLOW (cms)= 5.713 (i)
 TIME TO PEAK (hrs)= 13.417
 RUNOFF VOLUME (mm)= 73.263
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.576

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM		Filename: C:\Users\p001130E\AppData					
		ata\Local\Temp\					
		63f7ec8c-48b2-4828-99d7-7965400ec292\4fe4781d					
Ptotal=127.20 mm		Comments: 50yr 24hr 15min SCS					
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29

0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
 NASHYD (0216)
 ID= 1 DT= 5.0 min

Area (ha)= 84.73 Curve Number (CN)= 81.6
 Ia (mm)= 8.60 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.39

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

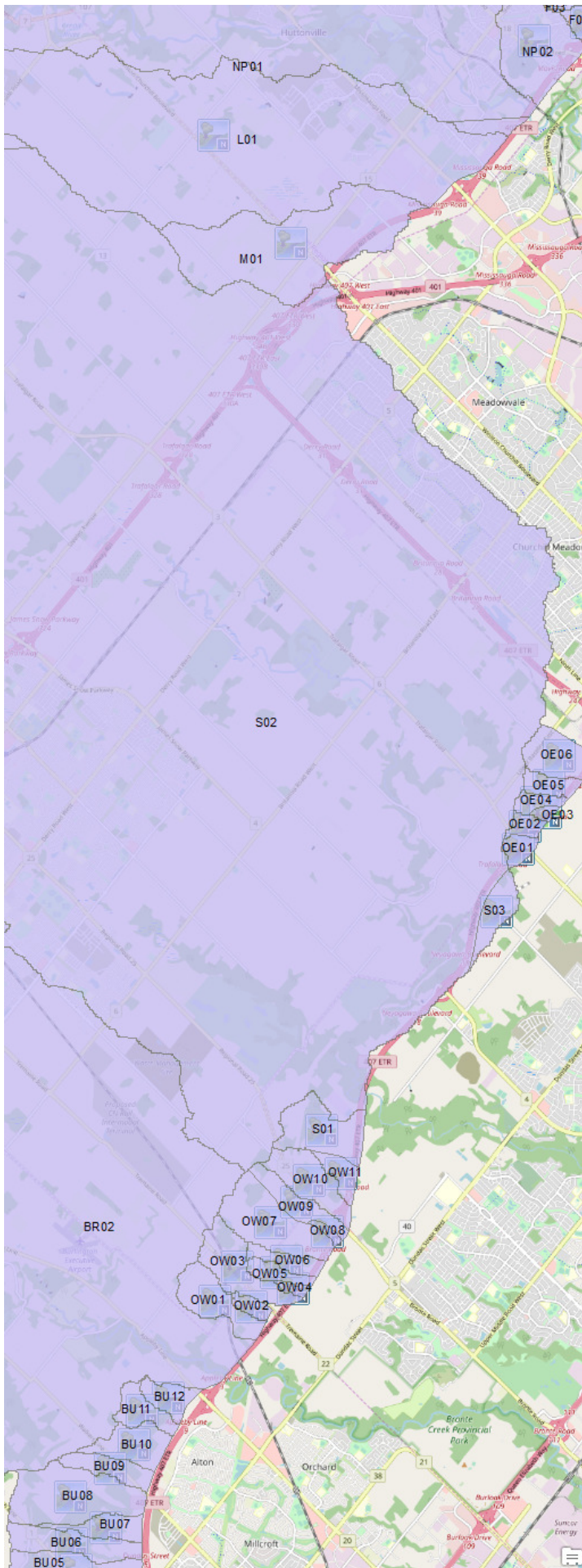
TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53

3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 8.298

PEAK FLOW (cms)= 11.372 (i)
 TIME TO PEAK (hrs)= 12.500
 RUNOFF VOLUME (mm)= 79.966
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.629

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.



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V V I SSSSS U U A L (v 5.2.2003)
V V I SS U U A A L
V V I SS U U AAAAA L
V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL

000 TTTTT TTTTT H H Y Y M M 000 TM
O O T T H H Y Y MM MM O O
O O T T H H Y M M O O
000 T T H H Y M M 000

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 5.2\V02\voin.dat

Output filename:

C:\Users\p001130E\AppData\Local\Civica\VH5\90177c49-c212-41e8-9d24-aaf9b547bf89\c72018da-4cdf-4968-9aa6-f1f8415b336d\sce

Summary filename:

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DATE: 10/10/2019

TIME: 07:29:18

USER:

COMMENTS: _____

** SIMULATION : Reg **

| READ STORM |

Filename: C:\Users\p001130E\AppData\Local\Temp\84750fae-dd01-436a-b211-c38404211d39\f0e33d6a

| Ptotal=285.08 mm | Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB			
NASHYD (0216)	Area (ha)=	33.36	Curve Number (CN)= 76.0
ID= 1 DT= 5.0 min	Ia (mm)=	7.88	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	1.44	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00

1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00

5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00

10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 0.885

PEAK FLOW (cms)= 2.926 (i)
 TIME TO PEAK (hrs)= 47.500
 RUNOFF VOLUME (mm)= 214.993
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.754

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00

5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

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| CALIB |
| NASHYD ( 0217) | Area (ha)= 121.20 Curve Number (CN)= 81.0
| ID= 1 DT= 5.0 min | Ia (mm)= 9.21 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 1.47

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00

2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00

6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00

10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 3.149

PEAK FLOW (cms)= 10.857 (i)

TIME TO PEAK (hrs)= 47.500

RUNOFF VOLUME (mm)= 226.875

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.796

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
 Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		

13.00 2.03 | 26.00 2.03 | 39.00 6.00 |

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| CALIB                               |
| NASHYD ( 0221) | Area (ha)= 10.92 Curve Number (CN)= 74.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.70 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.53

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----

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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00

3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00

7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00

11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 0.787

PEAK FLOW (cms)= 1.269 (i)
 TIME TO PEAK (hrs)= 46.333
 RUNOFF VOLUME (mm)= 208.914
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.733

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | READ STORM |
Ptotal=285.08 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

 | CALIB |
 | NASHYD (0222) |
ID= 1 DT= 5.0 min

Area (ha)= 40.89 Curve Number (CN)= 77.0
 Ia (mm)= 7.60 # of Linear Res.(N)= 3.00

----- U.H. Tp(hrs)= 0.52

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00

3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00

7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00

12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 3.003

PEAK FLOW (cms)= 4.878 (i)
 TIME TO PEAK (hrs)= 46.250
 RUNOFF VOLUME (mm)= 217.894
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.764

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\xf0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB			
NASHYD (0223)	Area (ha)= 134.22	Curve Number (CN)= 82.0	
ID= 1 DT= 5.0 min	Ia (mm)= 8.16	# of Linear Res.(N)= 3.00	
	U.H. Tp(hrs)= 0.84		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr

0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00

4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00

8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 6.103

PEAK FLOW (cms)= 14.559 (i)

TIME TO PEAK (hrs)= 47.000

RUNOFF VOLUME (mm)= 230.510

TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.809

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| READ STORM |      Filename: C:\Users\p001130E\AppData
|            |      ata\Local\Temp\
|            |      84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
| Ptotal=285.08 mm |      Comments: Hazel
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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

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| CALIB      |
| NASHYD ( 0227) |      Area (ha)= 170.30      Curve Number (CN)= 81.0
| ID= 1 DT= 5.0 min |      Ia (mm)= 8.67        # of Linear Res.(N)= 3.00
|            |      U.H. Tp(hrs)= 0.92
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00

0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00

5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00

9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 7.070

PEAK FLOW (cms)= 17.989 (i)

TIME TO PEAK (hrs)= 47.083

RUNOFF VOLUME (mm)= 227.397

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.798

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=285.08 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB
 NASHYD (0228)
 ID= 1 DT= 5.0 min

Area (ha)= 67.35 Curve Number (CN)= 83.0
 Ia (mm)= 7.68 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.01

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00

1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00

5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00

9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 2.547

PEAK FLOW (cms)= 6.999 (i)
 TIME TO PEAK (hrs)= 47.167
 RUNOFF VOLUME (mm)= 233.594
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.819

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00

2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

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| CALIB          |
| NASHYD ( 0229) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 9.36   Curve Number (CN)= 75.0
Ia        (mm)= 8.57   # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.35

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00

2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00

6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00

10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 1.021

PEAK FLOW (cms)= 1.204 (i)

TIME TO PEAK (hrs)= 46.083

RUNOFF VOLUME (mm)= 211.649

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.742

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00

10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

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| CALIB |
| NASHYD ( 0230) | Area (ha)= 107.44 Curve Number (CN)= 85.0
| ID= 1 DT= 5.0 min | Ia (mm)= 6.76 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.96

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00

2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00

7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00

11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 4.275

PEAK FLOW (cms)= 11.434 (i)
 TIME TO PEAK (hrs)= 47.083
 RUNOFF VOLUME (mm)= 239.716
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.841

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB			
NASHYD (0231)		Area (ha)= 37.66	Curve Number (CN)= 82.0
ID= 1 DT= 5.0 min		Ia (mm)= 8.15	# of Linear Res.(N)= 3.00
-----		U.H. Tp(hrs)= 0.49	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00

3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00

7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00

11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 2.936

PEAK FLOW (cms)= 4.701 (i)
 TIME TO PEAK (hrs)= 46.250
 RUNOFF VOLUME (mm)= 230.508
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.809

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| READ STORM |
|           |
| Ptotal=285.08 mm |
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Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

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| CALIB |
| NASHYD ( 0232) |
| ID= 1 DT= 5.0 min |
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Area (ha)= 36.87 Curve Number (CN)= 84.0
 Ia (mm)= 7.16 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.72

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00

4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00

8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 1.956

PEAK FLOW (cms)= 4.189 (i)
 TIME TO PEAK (hrs)= 46.667
 RUNOFF VOLUME (mm)= 236.713
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.830

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=285.08 mm	Filename: C:\Users\p001130E\AppData Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a Comments: Hazel
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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB NASHYD (0233) ID= 1 DT= 5.0 min	Area (ha)= 23.67 Ia (mm)= 8.27 U.H. Tp(hrs)= 0.53	Curve Number (CN)= 82.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00

0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00

4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00

9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 1.706

PEAK FLOW (cms)= 2.891 (i)

TIME TO PEAK (hrs)= 46.333

RUNOFF VOLUME (mm)= 230.395

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.808

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| READ STORM |
|            |
| Ptotal=285.08 mm |
|            |
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Filename: C:\Users\p001130E\AppData
         ata\Local\Temp\
         84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
Comments: Hazel

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

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| CALIB |
| NASHYD ( 0234) |
| ID= 1 DT= 5.0 min |
|            |
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Area      (ha)= 24.78   Curve Number (CN)= 83.0
Ia        (mm)=  7.75   # of Linear Res.(N)= 3.00
U.H. Tp(hrs)=  0.52

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00

1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99

5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00

9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 1.821

PEAK FLOW (cms)= 3.060 (i)

TIME TO PEAK (hrs)= 46.250

RUNOFF VOLUME (mm)= 233.516

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.819

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
 Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

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| CALIB |
| NASHYD ( 0235) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 10.29   Curve Number  (CN)= 84.0
Ia        (mm)=  7.52   # of Linear Res.(N)= 3.00
U.H. Tp(hrs)=  0.26

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00

1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00

6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00

10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 1.512

PEAK FLOW (cms)= 1.445 (i)
 TIME TO PEAK (hrs)= 46.000
 RUNOFF VOLUME (mm)= 236.203
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.829

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | READ STORM |
Ptotal=285.08 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
 Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00

7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

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| CALIB          |
| NASHYD ( 0236) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 96.69   Curve Number  (CN)= 84.0
Ia        (mm)=  7.46   # of Linear Res.(N)= 3.00
U.H. Tp(hrs)=  0.95

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00

2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00

6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00

11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 3.888

PEAK FLOW (cms)= 10.276 (i)

TIME TO PEAK (hrs)= 47.083

RUNOFF VOLUME (mm)= 236.421

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.829

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		


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| CALIB |
| NASHYD ( 0237) | Area (ha)=***** Curve Number (CN)= 74.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.78 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 19.78

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00

3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00

7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00

11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 64.209

PEAK FLOW (cms)= 489.488 (i)
 TIME TO PEAK (hrs)= 63.333
 RUNOFF VOLUME (mm)= 162.433
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.570

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=285.08 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

 | CALIB |
 | NASHYD (0238) |
ID= 1 DT= 5.0 min

Area (ha)= 559.83 Curve Number (CN)= 82.0
 Ia (mm)= 8.22 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 3.22

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00

3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00

8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 6.641

PEAK FLOW (cms)= 34.999 (i)
TIME TO PEAK (hrs)= 48.833
RUNOFF VOLUME (mm)= 230.453
TOTAL RAINFALL (mm)= 285.083
RUNOFF COEFFICIENT = 0.808

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| READ STORM | Filename: C:\Users\p001130E\AppData
| | ata\Local\Temp\
| | 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
| Ptotal=285.08 mm | Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

| CALIB |
| NASHYD (0239) | Area (ha)=3254.82 Curve Number (CN)= 85.0
| ID= 1 DT= 5.0 min | Ia (mm)= 6.74 # of Linear Res.(N)= 3.00

U.H. Tp(hrs)= 7.87

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00

0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00

4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00

8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 15.796

PEAK FLOW (cms)= 115.230 (i)
 TIME TO PEAK (hrs)= 52.417
 RUNOFF VOLUME (mm)= 239.105
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.839

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | READ STORM |
Ptotal=285.08 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
 Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

 | CALIB |
 | NASHYD (0240) |
ID= 1 DT= 5.0 min

Area (ha)=***** Curve Number (CN)= 65.0
 Ia (mm)= 10.40 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 27.50

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00

0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00

5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02

9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 94.573

PEAK FLOW (cms)= 656.184 (i)

TIME TO PEAK (hrs)= 70.917

RUNOFF VOLUME (mm)= 104.094

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.365

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM

Filename: C:\Users\p001130E\AppData
Local\Temp\

| Ptotal=285.08 mm |

84750fae-dd01-436a-b211-c38404211d39\f0e33d6a

Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

| CALIB
| NASHYD (0241)
| ID= 1 DT= 5.0 min |

Area (ha)= 238.20 Curve Number (CN)= 86.0
Ia (mm)= 6.41 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 1.27

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00

1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00

5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00

10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 7.164

PEAK FLOW (cms)= 23.177 (i)
 TIME TO PEAK (hrs)= 47.333
 RUNOFF VOLUME (mm)= 242.667
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.851

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
 Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00

4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

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| CALIB |
| NASHYD ( 0243) | Area (ha)= 33.70 Curve Number (CN)= 87.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.75 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 1.00

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00

2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00

6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00

10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 1.287

PEAK FLOW (cms)= 3.570 (i)

TIME TO PEAK (hrs)= 47.167

RUNOFF VOLUME (mm)= 245.919

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.863

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		

12.00	2.03	25.00	2.03	38.00	4.00
13.00	2.03	26.00	2.03	39.00	6.00

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| CALIB |
| NASHYD ( 0245) | Area (ha)= 22.12 Curve Number (CN)= 81.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.66 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.47

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00

2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00

7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02

11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 1.798

PEAK FLOW (cms)= 2.773 (i)

TIME TO PEAK (hrs)= 46.250

RUNOFF VOLUME (mm)= 227.393

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.798

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| READ STORM |
|           |
| Ptotal=285.08 mm |
|           |
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Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
Comments: Hazel

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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

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| CALIB |
| NASHYD ( 0246) |
|           |
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Area (ha)= 102.21 Curve Number (CN)= 82.0

|ID= 1 DT= 5.0 min | Ia (mm)= 8.62 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 1.48

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00

3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00

7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00

12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 2.638

PEAK FLOW (cms)= 9.180 (i)
 TIME TO PEAK (hrs)= 47.500
 RUNOFF VOLUME (mm)= 230.065
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.807

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB	Area (ha)=*****	Curve Number (CN)= 68.0
NASHYD (0247)	Ia (mm)= 9.01	# of Linear Res.(N)= 3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)= 19.99	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
------	------	------	------	------	------	------	------

hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00

4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00

8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 57.282

PEAK FLOW (cms)= 406.012 (i)

TIME TO PEAK (hrs)= 63.667

RUNOFF VOLUME (mm)= 148.071
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.519

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| READ STORM |
|           |
| Ptotal=285.08 mm |
|           |
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Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
 Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

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| CALIB |
| NASHYD ( 0248) |
| ID= 1 DT= 5.0 min |
|           |
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Area (ha)= 48.53 Curve Number (CN)= 80.0
 Ia (mm)= 9.35 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.74

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00

0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00

4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00

9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 2.505

PEAK FLOW (cms)= 5.363 (i)

TIME TO PEAK (hrs)= 46.750

RUNOFF VOLUME (mm)= 224.117

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.786

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| READ STORM |
|            |
| Ptotal=285.08 mm |
|            |
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          ata\Local\Temp\
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Comments: Hazel

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

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| CALIB |
| NASHYD ( 0249) |
| ID= 1 DT= 5.0 min |
|            |
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Area      (ha)= 56.39   Curve Number (CN)= 80.0
Ia        (mm)= 9.26   # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.97

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00

1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00

5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00

9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 2.220

PEAK FLOW (cms)= 5.838 (i)

TIME TO PEAK (hrs)= 47.083

RUNOFF VOLUME (mm)= 224.206

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.786

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr

1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

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| CALIB          |
| NASHYD ( 0250) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 85.49   Curve Number (CN)= 79.0
Ia        (mm)=  6.94   # of Linear Res.(N)= 3.00
U.H. Tp(hrs)=  0.57

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00

2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00

6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00

10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 5.728

PEAK FLOW (cms)= 10.077 (i)
 TIME TO PEAK (hrs)= 46.333
 RUNOFF VOLUME (mm)= 223.806
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.785

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00

9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB							
NASHYD (0251)	Area	(ha)= 61.50	Curve Number	(CN)= 81.0			
ID= 1 DT= 5.0 min	Ia	(mm)= 9.19	# of Linear Res.(N)=	3.00			
	U.H. Tp	(hrs)= 1.00					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00

2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00

6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00

11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 2.349

PEAK FLOW (cms)= 6.344 (i)
 TIME TO PEAK (hrs)= 47.167
 RUNOFF VOLUME (mm)= 226.894
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.796

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\xf0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

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| CALIB          |
| NASHYD ( 0252) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 217.02   Curve Number (CN)= 78.0
Ia        (mm)=   7.33   # of Linear Res.(N)= 3.00
U.H. Tp(hrs)=   1.08

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00

3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00

7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00

11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 7.675

PEAK FLOW (cms)= 21.507 (i)
 TIME TO PEAK (hrs)= 47.167
 RUNOFF VOLUME (mm)= 220.801
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.775

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| READ STORM |
|           |
| Ptotal=285.08 mm |
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Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
Comments: Hazel

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

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| CALIB |
| NASHYD ( 0253) |
| ID= 1 DT= 5.0 min |
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Area (ha)= 57.31 Curve Number (CN)= 78.0
Ia (mm)= 7.24 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.45

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00

4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00

8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 4.864

PEAK FLOW (cms)= 7.147 (i)
 TIME TO PEAK (hrs)= 46.167
 RUNOFF VOLUME (mm)= 220.871
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.775

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB			
NASHYD (0254)	Area (ha)= 103.83	Curve Number (CN)= 77.0	
ID= 1 DT= 5.0 min	Ia (mm)= 7.55	# of Linear Res.(N)= 3.00	
	U.H. Tp(hrs)= 1.16		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00

0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00

4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00

8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 3.419

PEAK FLOW (cms)= 9.979 (i)
 TIME TO PEAK (hrs)= 47.250
 RUNOFF VOLUME (mm)= 217.951
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.765

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=285.08 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
 Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB
 NASHYD (0255)
 ID= 1 DT= 5.0 min

Area (ha)= 126.79 Curve Number (CN)= 77.0
 Ia (mm)= 7.40 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.21

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00

1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00

5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00

9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 4.002

PEAK FLOW (cms)= 11.998 (i)

TIME TO PEAK (hrs)= 47.333

RUNOFF VOLUME (mm)= 218.094

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.765

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB		
NASHYD (0256)	Area (ha)=2177.45	Curve Number (CN)= 78.0
ID= 1 DT= 5.0 min	Ia (mm)= 7.30	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 5.73	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00

1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00

6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00

10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 14.514

PEAK FLOW (cms)= 92.348 (i)
 TIME TO PEAK (hrs)= 50.750
 RUNOFF VOLUME (mm)= 220.801
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.775

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
 Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00

6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

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| CALIB
| NASHYD ( 0257)
| ID= 1 DT= 5.0 min
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Area (ha)= 27.93 Curve Number (CN)= 82.0
Ia (mm)= 8.64 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.48

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00

2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00

6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00

10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 2.223

PEAK FLOW (cms)= 3.503 (i)
 TIME TO PEAK (hrs)= 46.250
 RUNOFF VOLUME (mm)= 230.031
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.807

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=285.08 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
 Comments: Hazel

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

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| CALIB |
| NASHYD ( 0259) | Area (ha)= 44.21 Curve Number (CN)= 87.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.78 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.74

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00

3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00
3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00

7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00
8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00

11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00
12.250	2.03	24.500	2.03	36.750	6.00	49.00	0.00

Unit Hyd Qpeak (cms)= 2.282

PEAK FLOW (cms)= 5.048 (i)
 TIME TO PEAK (hrs)= 46.667
 RUNOFF VOLUME (mm)= 245.887
 TOTAL RAINFALL (mm)= 285.083
 RUNOFF COEFFICIENT = 0.863

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f0e33d6a
Ptotal=285.08 mm	Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
1.00	2.03	14.00	2.03	27.00	2.03	40.00	13.00
2.00	2.03	15.00	2.03	28.00	2.03	41.00	17.00
3.00	2.03	16.00	2.03	29.00	2.03	42.00	13.00
4.00	2.03	17.00	2.03	30.00	2.03	43.00	23.00
5.00	2.03	18.00	2.03	31.00	2.03	44.00	13.00
6.00	2.03	19.00	2.03	32.00	2.03	45.00	13.00
7.00	2.03	20.00	2.03	33.00	2.03	46.00	53.00
8.00	2.03	21.00	2.03	34.00	2.03	47.00	38.00
9.00	2.03	22.00	2.03	35.00	2.03	48.00	13.00
10.00	2.03	23.00	2.03	36.00	2.03	49.00	0.00
11.00	2.03	24.00	2.03	37.00	6.00		
12.00	2.03	25.00	2.03	38.00	4.00		
13.00	2.03	26.00	2.03	39.00	6.00		

CALIB	Area (ha)= 64.73	Curve Number (CN)= 81.8
NASHYD (0260)	Ia (mm)= 8.50	# of Linear Res.(N)= 3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)= 0.40	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	2.03	12.333	2.03	24.583	2.03	36.83	6.00
0.167	2.03	12.417	2.03	24.667	2.03	36.92	6.00
0.250	2.03	12.500	2.03	24.750	2.03	37.00	6.00
0.333	2.03	12.583	2.03	24.833	2.03	37.08	4.00
0.417	2.03	12.667	2.03	24.917	2.03	37.17	4.00
0.500	2.03	12.750	2.03	25.000	2.03	37.25	4.00
0.583	2.03	12.833	2.03	25.083	2.03	37.33	4.00
0.667	2.03	12.917	2.03	25.167	2.03	37.42	4.00
0.750	2.03	13.000	2.03	25.250	2.03	37.50	4.00
0.833	2.03	13.083	2.03	25.333	2.03	37.58	4.00
0.917	2.03	13.167	2.03	25.417	2.03	37.67	4.00
1.000	2.03	13.250	2.03	25.500	2.03	37.75	4.00
1.083	2.03	13.333	2.03	25.583	2.03	37.83	4.00
1.167	2.03	13.417	2.03	25.667	2.03	37.92	4.00
1.250	2.03	13.500	2.03	25.750	2.03	38.00	4.00
1.333	2.03	13.583	2.03	25.833	2.03	38.08	6.00
1.417	2.03	13.667	2.03	25.917	2.03	38.17	6.00
1.500	2.03	13.750	2.03	26.000	2.03	38.25	6.00
1.583	2.03	13.833	2.03	26.083	2.03	38.33	6.00
1.667	2.03	13.917	2.03	26.167	2.03	38.42	6.00
1.750	2.03	14.000	2.03	26.250	2.03	38.50	6.00
1.833	2.03	14.083	2.03	26.333	2.03	38.58	6.00
1.917	2.03	14.167	2.03	26.417	2.03	38.67	6.00
2.000	2.03	14.250	2.03	26.500	2.03	38.75	6.00
2.083	2.03	14.333	2.03	26.583	2.03	38.83	6.00
2.167	2.03	14.417	2.03	26.667	2.03	38.92	6.00
2.250	2.03	14.500	2.03	26.750	2.03	39.00	6.00
2.333	2.03	14.583	2.03	26.833	2.03	39.08	13.00
2.417	2.03	14.667	2.03	26.917	2.03	39.17	13.00
2.500	2.03	14.750	2.03	27.000	2.03	39.25	13.00
2.583	2.03	14.833	2.03	27.083	2.03	39.33	13.00
2.667	2.03	14.917	2.03	27.167	2.03	39.42	13.00
2.750	2.03	15.000	2.03	27.250	2.03	39.50	13.00
2.833	2.03	15.083	2.03	27.333	2.03	39.58	13.00
2.917	2.03	15.167	2.03	27.417	2.03	39.67	13.00
3.000	2.03	15.250	2.03	27.500	2.03	39.75	13.00
3.083	2.03	15.333	2.03	27.583	2.03	39.83	13.00
3.167	2.03	15.417	2.03	27.667	2.03	39.92	13.00
3.250	2.03	15.500	2.03	27.750	2.03	40.00	13.00
3.333	2.03	15.583	2.03	27.833	2.03	40.08	17.00
3.417	2.03	15.667	2.03	27.917	2.03	40.17	17.00
3.500	2.03	15.750	2.03	28.000	2.03	40.25	17.00
3.583	2.03	15.833	2.03	28.083	2.03	40.33	17.00
3.667	2.03	15.917	2.03	28.167	2.03	40.42	17.00

3.750	2.03	16.000	2.03	28.250	2.03	40.50	17.00
3.833	2.03	16.083	2.03	28.333	2.03	40.58	17.00
3.917	2.03	16.167	2.03	28.417	2.03	40.67	17.00
4.000	2.03	16.250	2.03	28.500	2.03	40.75	17.00
4.083	2.03	16.333	2.03	28.583	2.03	40.83	17.00
4.167	2.03	16.417	2.03	28.667	2.03	40.92	17.00
4.250	2.03	16.500	2.03	28.750	2.03	41.00	17.00
4.333	2.03	16.583	2.03	28.833	2.03	41.08	13.00
4.417	2.03	16.667	2.03	28.917	2.03	41.17	13.00
4.500	2.03	16.750	2.03	29.000	2.03	41.25	13.00
4.583	2.03	16.833	2.03	29.083	2.03	41.33	13.00
4.667	2.03	16.917	2.03	29.167	2.03	41.42	13.00
4.750	2.03	17.000	2.03	29.250	2.03	41.50	13.00
4.833	2.03	17.083	2.03	29.333	2.03	41.58	13.00
4.917	2.03	17.167	2.03	29.417	2.03	41.67	13.00
5.000	2.03	17.250	2.03	29.500	2.03	41.75	13.00
5.083	2.03	17.333	2.03	29.583	2.03	41.83	13.00
5.167	2.03	17.417	2.03	29.667	2.03	41.92	13.00
5.250	2.03	17.500	2.03	29.750	2.03	42.00	13.00
5.333	2.03	17.583	2.03	29.833	2.03	42.08	22.99
5.417	2.03	17.667	2.03	29.917	2.03	42.17	23.00
5.500	2.03	17.750	2.03	30.000	2.03	42.25	23.00
5.583	2.03	17.833	2.03	30.083	2.03	42.33	23.00
5.667	2.03	17.917	2.03	30.167	2.03	42.42	23.00
5.750	2.03	18.000	2.03	30.250	2.03	42.50	23.00
5.833	2.03	18.083	2.03	30.333	2.03	42.58	23.00
5.917	2.03	18.167	2.03	30.417	2.03	42.67	23.00
6.000	2.03	18.250	2.03	30.500	2.03	42.75	23.00
6.083	2.03	18.333	2.03	30.583	2.03	42.83	23.00
6.167	2.03	18.417	2.03	30.667	2.03	42.92	23.00
6.250	2.03	18.500	2.03	30.750	2.03	43.00	23.00
6.333	2.03	18.583	2.03	30.833	2.03	43.08	13.01
6.417	2.03	18.667	2.03	30.917	2.03	43.17	13.00
6.500	2.03	18.750	2.03	31.000	2.03	43.25	13.00
6.583	2.03	18.833	2.03	31.083	2.03	43.33	13.00
6.667	2.03	18.917	2.03	31.167	2.03	43.42	13.00
6.750	2.03	19.000	2.03	31.250	2.03	43.50	13.00
6.833	2.03	19.083	2.03	31.333	2.03	43.58	13.00
6.917	2.03	19.167	2.03	31.417	2.03	43.67	13.00
7.000	2.03	19.250	2.03	31.500	2.03	43.75	13.00
7.083	2.03	19.333	2.03	31.583	2.03	43.83	13.00
7.167	2.03	19.417	2.03	31.667	2.03	43.92	13.00
7.250	2.03	19.500	2.03	31.750	2.03	44.00	13.00
7.333	2.03	19.583	2.03	31.833	2.03	44.08	13.00
7.417	2.03	19.667	2.03	31.917	2.03	44.17	13.00
7.500	2.03	19.750	2.03	32.000	2.03	44.25	13.00
7.583	2.03	19.833	2.03	32.083	2.03	44.33	13.00
7.667	2.03	19.917	2.03	32.167	2.03	44.42	13.00
7.750	2.03	20.000	2.03	32.250	2.03	44.50	13.00
7.833	2.03	20.083	2.03	32.333	2.03	44.58	13.00
7.917	2.03	20.167	2.03	32.417	2.03	44.67	13.00

8.000	2.03	20.250	2.03	32.500	2.03	44.75	13.00
8.083	2.03	20.333	2.03	32.583	2.03	44.83	13.00
8.167	2.03	20.417	2.03	32.667	2.03	44.92	13.00
8.250	2.03	20.500	2.03	32.750	2.03	45.00	13.00
8.333	2.03	20.583	2.03	32.833	2.03	45.08	52.95
8.417	2.03	20.667	2.03	32.917	2.03	45.17	53.00
8.500	2.03	20.750	2.03	33.000	2.03	45.25	53.00
8.583	2.03	20.833	2.03	33.083	2.03	45.33	53.00
8.667	2.03	20.917	2.03	33.167	2.03	45.42	53.00
8.750	2.03	21.000	2.03	33.250	2.03	45.50	53.00
8.833	2.03	21.083	2.03	33.333	2.03	45.58	53.00
8.917	2.03	21.167	2.03	33.417	2.03	45.67	53.00
9.000	2.03	21.250	2.03	33.500	2.03	45.75	53.00
9.083	2.03	21.333	2.03	33.583	2.03	45.83	53.00
9.167	2.03	21.417	2.03	33.667	2.03	45.92	53.00
9.250	2.03	21.500	2.03	33.750	2.03	46.00	53.00
9.333	2.03	21.583	2.03	33.833	2.03	46.08	38.02
9.417	2.03	21.667	2.03	33.917	2.03	46.17	38.00
9.500	2.03	21.750	2.03	34.000	2.03	46.25	38.00
9.583	2.03	21.833	2.03	34.083	2.03	46.33	38.00
9.667	2.03	21.917	2.03	34.167	2.03	46.42	38.00
9.750	2.03	22.000	2.03	34.250	2.03	46.50	38.00
9.833	2.03	22.083	2.03	34.333	2.03	46.58	38.00
9.917	2.03	22.167	2.03	34.417	2.03	46.67	38.00
10.000	2.03	22.250	2.03	34.500	2.03	46.75	38.00
10.083	2.03	22.333	2.03	34.583	2.03	46.83	38.00
10.167	2.03	22.417	2.03	34.667	2.03	46.92	38.00
10.250	2.03	22.500	2.03	34.750	2.03	47.00	38.00
10.333	2.03	22.583	2.03	34.833	2.03	47.08	13.04
10.417	2.03	22.667	2.03	34.917	2.03	47.17	13.00
10.500	2.03	22.750	2.03	35.000	2.03	47.25	13.00
10.583	2.03	22.833	2.03	35.083	2.03	47.33	13.00
10.667	2.03	22.917	2.03	35.167	2.03	47.42	13.00
10.750	2.03	23.000	2.03	35.250	2.03	47.50	13.00
10.833	2.03	23.083	2.03	35.333	2.03	47.58	13.00
10.917	2.03	23.167	2.03	35.417	2.03	47.67	13.00
11.000	2.03	23.250	2.03	35.500	2.03	47.75	13.00
11.083	2.03	23.333	2.03	35.583	2.03	47.83	13.00
11.167	2.03	23.417	2.03	35.667	2.03	47.92	13.00
11.250	2.03	23.500	2.03	35.750	2.03	48.00	13.00
11.333	2.03	23.583	2.03	35.833	2.03	48.08	0.02
11.417	2.03	23.667	2.03	35.917	2.03	48.17	0.00
11.500	2.03	23.750	2.03	36.000	2.03	48.25	0.00
11.583	2.03	23.833	2.03	36.083	6.00	48.33	0.00
11.667	2.03	23.917	2.03	36.167	6.00	48.42	0.00
11.750	2.03	24.000	2.03	36.250	6.00	48.50	0.00
11.833	2.03	24.083	2.03	36.333	6.00	48.58	0.00
11.917	2.03	24.167	2.03	36.417	6.00	48.67	0.00
12.000	2.03	24.250	2.03	36.500	6.00	48.75	0.00
12.083	2.03	24.333	2.03	36.583	6.00	48.83	0.00
12.167	2.03	24.417	2.03	36.667	6.00	48.92	0.00

12.250 2.03 | 24.500 2.03 | 36.750 6.00 | 49.00 0.00

Unit Hyd Qpeak (cms)= 6.181

PEAK FLOW (cms)= 8.459 (i)

TIME TO PEAK (hrs)= 46.083

RUNOFF VOLUME (mm)= 229.629

TOTAL RAINFALL (mm)= 285.083

RUNOFF COEFFICIENT = 0.805

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

FINISH
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V V I SSSSS U U A L (v 5.2.2003)
V V I SS U U A A L
V V I SS U U AAAAA L
V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL

000 TTTTT TTTTT H H Y Y M M 000 TM
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000 T T H H Y M M 000

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 5.2\V02\voin.dat

Output filename:

C:\Users\p001130E\AppData\Local\Civica\XH5\90177c49-c212-41e8-9d24-aaf9b547bf89\49d0169b-1746-4c2b-8180-a792e9925c5c\sce

Summary filename:

C:\Users\p001130E\AppData\Local\Civica\XH5\90177c49-c212-41e8-9d24-aaf9b547bf89\49d0169b-1746-4c2b-8180-a792e9925c5c\sce

DATE: 10/10/2019

TIME: 07:29:14

USER:

COMMENTS: _____

** SIMULATION : 100yr_SCS_24hr **

| READ STORM |

Filename: C:\Users\p001130E\AppData\Local\Temp\84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f

| Ptotal=136.80 mm | Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB			
NASHYD (0216)	Area (ha)=	33.36	Curve Number (CN)= 76.0
ID= 1 DT= 5.0 min	Ia (mm)=	7.88	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	1.44	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46

0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64

4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.885

PEAK FLOW (cms)= 1.653 (i)
 TIME TO PEAK (hrs)= 13.667
 RUNOFF VOLUME (mm)= 79.473
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.581

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=136.80 mm	Filename: C:\Users\p001130E\AppData Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f Comments: 100yr 24hr 15min SCS
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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64

4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0217) | Area (ha)= 121.20 Curve Number (CN)= 81.0
| ID= 1 DT= 5.0 min | Ia (mm)= 9.21 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 1.47

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64

2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 3.149

PEAK FLOW (cms)= 6.558 (i)

TIME TO PEAK (hrs)= 13.750
 RUNOFF VOLUME (mm)= 86.975
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.636

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=136.80 mm	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f Comments: 100yr 24hr 15min SCS
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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB NASHYD (0221) ID= 1 DT= 5.0 min	Area (ha)= 10.92 Ia (mm)= 8.70 U.H. Tp(hrs)= 0.53	Curve Number (CN)= 74.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64

3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.787

PEAK FLOW (cms)= 1.085 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 75.498
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.552

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\xf7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46

0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB							
NASHYD (0222)	Area	(ha)= 40.89	Curve Number	(CN)= 77.0			
ID= 1 DT= 5.0 min	Ia	(mm)= 7.60	# of Linear Res.(N)= 3.00				
	U.H. Tp(hrs)=	0.52					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46

1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64

5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 3.003

PEAK FLOW (cms)= 4.460 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 81.396
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.595

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=136.80 mm	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f Comments: 100yr 24hr 15min SCS
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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64

5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0223) | Area (ha)= 134.22 Curve Number (CN)= 82.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.16 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.84

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64

2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 6.103

PEAK FLOW (cms)= 11.487 (i)
 TIME TO PEAK (hrs)= 13.000
 RUNOFF VOLUME (mm)= 89.742
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.656

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.


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| READ STORM |
|           |
| Ptotal=136.80 mm |
|           |
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Filename: C:\Users\p001130E\AppData
         ata\Local\Temp\
         84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
Comments: 100yr 24hr 15min SCS

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0227) |
| ID= 1 DT= 5.0 min |
|           |
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Area      (ha)= 170.30   Curve Number (CN)= 81.0
Ia        (mm)= 8.67    # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.92

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64

4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 7.070

PEAK FLOW (cms)= 13.253 (i)
 TIME TO PEAK (hrs)= 13.083
 RUNOFF VOLUME (mm)= 87.460
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.639

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64

2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB							
NASHYD (0228)	Area (ha)=	67.35	Curve Number (CN)=	83.0			
ID= 1 DT= 5.0 min	Ia (mm)=	7.68	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	1.01					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46

1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64

5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 2.547

PEAK FLOW (cms)= 5.142 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 92.037
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.673

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0229) | Area (ha)= 9.36 Curve Number (CN)= 75.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.57 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.35

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64

3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.021

PEAK FLOW (cms)= 1.283 (i)

TIME TO PEAK (hrs)= 12.500

RUNOFF VOLUME (mm)= 77.218

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.564

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM

Filename: C:\Users\p001130E\AppData
ata\Local\Temp\

| Ptotal=136.80 mm |

84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | NASHYD (0230) |
 | ID= 1 DT= 5.0 min |

Area (ha)= 107.44 Curve Number (CN)= 85.0
 Ia (mm)= 6.76 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.96

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46

0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64

4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 4.275

PEAK FLOW (cms)= 8.949 (i)

TIME TO PEAK (hrs)= 13.083

RUNOFF VOLUME (mm)= 96.706

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.707

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\xf7aa8a9f
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64

3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0231) | Area (ha)= 37.66 Curve Number (CN)= 82.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.15 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.49

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64

2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 2.936

PEAK FLOW (cms)= 4.785 (i)
 TIME TO PEAK (hrs)= 12.583
 RUNOFF VOLUME (mm)= 89.747
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.656

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB	Area (ha)= 36.87	Curve Number (CN)= 84.0
NASHYD (0232)	Ia (mm)= 7.16	# of Linear Res.(N)= 3.00
ID= 1 DT= 5.0 min	U.H. Tp(hrs)= 0.72	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64

3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.956

PEAK FLOW (cms)= 3.719 (i)
 TIME TO PEAK (hrs)= 12.833
 RUNOFF VOLUME (mm)= 94.406
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.690

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46

0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB							
NASHYD (0233)	Area	(ha)=	23.67	Curve Number	(CN)=	82.0	
ID= 1 DT= 5.0 min	Ia	(mm)=	8.27	# of Linear Res.(N)=	3.00		
	U.H. Tp	(hrs)=	0.53				

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46

1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64

5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.706

PEAK FLOW (cms)= 2.840 (i)

TIME TO PEAK (hrs)= 12.667

RUNOFF VOLUME (mm)= 89.639

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.655

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
ata\Local\Temp\
84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64

5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB							
NASHYD (0234)		Area (ha)=	24.78	Curve Number (CN)=	83.0		
ID= 1 DT= 5.0 min		Ia (mm)=	7.75	# of Linear Res.(N)=	3.00		
		U.H. Tp(hrs)=	0.52				

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64

2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.821

PEAK FLOW (cms)= 3.090 (i)

TIME TO PEAK (hrs)= 12.667

RUNOFF VOLUME (mm)= 91.969

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.672

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | READ STORM |
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | NASHYD (0235) |
ID= 1 DT= 5.0 min

Area (ha)= 10.29 Curve Number (CN)= 84.0
 Ia (mm)= 7.52 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.26

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
------	------	------	------	------	------	------	------

hrs	mm/hr	hrs	mm/hr	'	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46	
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46	
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46	
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46	
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46	
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46	
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46	
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46	
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46	
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46	
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46	
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46	
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46	
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46	
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46	
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46	
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46	
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46	
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46	
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46	
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46	
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46	
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46	
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46	
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64	
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64	
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64	
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64	
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64	
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64	
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64	
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64	
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64	
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64	
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64	
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64	
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64	
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64	
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64	
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64	
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64	
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64	
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64	
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64	
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64	
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64	
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64	
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64	
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64	
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64	

4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.512

PEAK FLOW (cms)= 2.151 (i)
 TIME TO PEAK (hrs)= 12.333
 RUNOFF VOLUME (mm)= 94.010
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.687

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64

2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB			
NASHYD (0236)	Area (ha)=	96.69	Curve Number (CN)= 84.0
ID= 1 DT= 5.0 min	Ia (mm)=	7.46	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.95	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46

1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64

5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 3.888

PEAK FLOW (cms)= 7.913 (i)

TIME TO PEAK (hrs)= 13.083

RUNOFF VOLUME (mm)= 94.129

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.688

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
ata\Local\Temp\
84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0237) | Area (ha)=***** Curve Number (CN)= 74.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.78 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 19.78

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64

3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 64.209

PEAK FLOW (cms)= 184.999 (i)

TIME TO PEAK (hrs)= 34.000

RUNOFF VOLUME (mm)= 73.168

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.535

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| READ STORM |

Filename: C:\Users\p001130E\AppData

Ptotal=136.80 mm

ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 NASHYD (0238)
 ID= 1 DT= 5.0 min

Area (ha)= 559.83 Curve Number (CN)= 82.0
 Ia (mm)= 8.22 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 3.22

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46

0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64

4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 6.641

PEAK FLOW (cms)= 16.825 (i)
 TIME TO PEAK (hrs)= 15.667
 RUNOFF VOLUME (mm)= 89.688
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.656

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | READ STORM |
Pttotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64

3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB          |
| NASHYD ( 0239) |
| ID= 1 DT= 5.0 min |
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Area      (ha)=3254.82   Curve Number  (CN)= 85.0
Ia        (mm)= 6.74    # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 7.87

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46

2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 15.796

PEAK FLOW (cms)= 51.330 (i)
 TIME TO PEAK (hrs)= 21.167
 RUNOFF VOLUME (mm)= 96.724
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.707

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | READ STORM | Filename: C:\Users\p001130E\AppData
 | | ata\Local\Temp\
 | | 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
 | Ptotal=136.80 mm | Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | NASHYD (0240) | Area (ha)=***** Curve Number (CN)= 65.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 10.40 # of Linear Res.(N)= 3.00

----- U.H. Tp(hrs)= 27.50

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64

3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 94.573

PEAK FLOW (cms)= 222.551 (i)
 TIME TO PEAK (hrs)= 41.833
 RUNOFF VOLUME (mm)= 53.247
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.389

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\xf7aa8a9f
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr

0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

| CALIB |
| NASHYD (0241) | Area (ha)= 238.20 Curve Number (CN)= 86.0
| ID= 1 DT= 5.0 min | Ia (mm)= 6.41 # of Linear Res.(N)= 3.00
|-----| U.H. Tp(hrs)= 1.27

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46

1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64

5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 7.164

PEAK FLOW (cms)= 16.427 (i)

TIME TO PEAK (hrs)= 13.500

RUNOFF VOLUME (mm)= 98.996

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.724

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64

5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

| CALIB |
| NASHYD (0243) |
ID= 1 DT= 5.0 min

Area (ha)= 33.70 Curve Number (CN)= 87.0
Ia (mm)= 5.75 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 1.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64

2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.287

PEAK FLOW (cms)= 2.857 (i)

TIME TO PEAK (hrs)= 13.167

RUNOFF VOLUME (mm)= 101.619

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.743

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | READ STORM |
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | NASHYD (0245) |
ID= 1 DT= 5.0 min

Area (ha)= 22.12 Curve Number (CN)= 81.0
 Ia (mm)= 8.66 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.47

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64

4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.798

PEAK FLOW (cms)= 2.828 (i)
 TIME TO PEAK (hrs)= 12.583
 RUNOFF VOLUME (mm)= 87.464
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.639

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=136.80 mm	Filename: C:\Users\p001130E\AppData Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\xf7aa8a9f Comments: 100yr 24hr 15min SCS
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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46

1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB			
NASHYD (0246)	Area (ha)= 102.21	Curve Number (CN)= 82.0	
ID= 1 DT= 5.0 min	Ia (mm)= 8.62	# of Linear Res.(N)= 3.00	
	U.H. Tp(hrs)= 1.48		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46

1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64

5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 2.638

PEAK FLOW (cms)= 5.656 (i)
 TIME TO PEAK (hrs)= 13.750
 RUNOFF VOLUME (mm)= 89.325
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.653

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		


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| CALIB |
| NASHYD ( 0247) | Area (ha)=***** Curve Number (CN)= 68.0
| ID= 1 DT= 5.0 min | Ia (mm)= 9.01 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 19.99

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64

3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 57.282

PEAK FLOW (cms)= 144.487 (i)

TIME TO PEAK (hrs)= 34.333

RUNOFF VOLUME (mm)= 63.916

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.467

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 NASHYD (0248)
 ID= 1 DT= 5.0 min

Area (ha)= 48.53 Curve Number (CN)= 80.0
 Ia (mm)= 9.35 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.74

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46

0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64

4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 2.505

PEAK FLOW (cms)= 4.323 (i)
 TIME TO PEAK (hrs)= 12.917
 RUNOFF VOLUME (mm)= 85.066
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.622

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=136.80 mm	Filename: C:\Users\p001130E\AppData Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f Comments: 100yr 24hr 15min SCS
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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64

3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB							
NASHYD (0249)	Area (ha)=	56.39	Curve Number (CN)=	80.0			
ID= 1 DT= 5.0 min	Ia (mm)=	9.26	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	0.97					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46

2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 2.220

PEAK FLOW (cms)= 4.100 (i)
TIME TO PEAK (hrs)= 13.167
RUNOFF VOLUME (mm)= 85.146
TOTAL RAINFALL (mm)= 136.800
RUNOFF COEFFICIENT = 0.622

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| READ STORM | Filename: C:\Users\p001130E\AppData
| | ata\Local\Temp\
| | 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
| Ptotal=136.80 mm | Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

| CALIB |
| NASHYD (0250) | Area (ha)= 85.49 Curve Number (CN)= 79.0

|ID= 1 DT= 5.0 min | Ia (mm)= 6.94 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.57

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64

3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 5.728

PEAK FLOW (cms)= 9.156 (i)

TIME TO PEAK (hrs)= 12.667

RUNOFF VOLUME (mm)= 85.435

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.625

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
ata\Local\Temp\
84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
Comments: 100yr 24hr 15min SCS

TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN

hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB          |
| NASHYD ( 0251) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 61.50   Curve Number (CN)= 81.0
Ia        (mm)=  9.19   # of Linear Res.(N)= 3.00
U.H. Tp(hrs)=  1.00

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46

0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64

5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 2.349

PEAK FLOW (cms)= 4.474 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 86.993
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.636

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
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 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64

4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB          |
| NASHYD ( 0252) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 217.02   Curve Number  (CN)= 78.0
Ia        (mm)=   7.33   # of Linear Res.(N)= 3.00
U.H. Tp(hrs)=   1.08

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64

2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 7.675

PEAK FLOW (cms)= 14.105 (i)

TIME TO PEAK (hrs)= 13.250

RUNOFF VOLUME (mm)= 83.349

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.609

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | READ STORM |
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | NASHYD (0253) |
ID= 1 DT= 5.0 min

Area (ha)= 57.31 Curve Number (CN)= 78.0
 Ia (mm)= 7.24 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.45

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64

4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 4.864

PEAK FLOW (cms)= 7.131 (i)

TIME TO PEAK (hrs)= 12.583

RUNOFF VOLUME (mm)= 83.421

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.610

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46

1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB							
NASHYD (0254)	Area (ha)=	103.83	Curve Number (CN)=	77.0			
ID= 1 DT= 5.0 min	Ia (mm)=	7.55	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	1.16					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46

1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64

5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 3.419

PEAK FLOW (cms)= 6.232 (i)
 TIME TO PEAK (hrs)= 13.333
 RUNOFF VOLUME (mm)= 81.443
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.595

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		

6.25 2.19 | 12.50 19.70 | 18.75 2.46 |

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| CALIB |
| NASHYD ( 0255) | Area (ha)= 126.79 Curve Number (CN)= 77.0
| ID= 1 DT= 5.0 min | Ia (mm)= 7.40 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 1.21

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----

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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64

3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 4.002

PEAK FLOW (cms)= 7.384 (i)

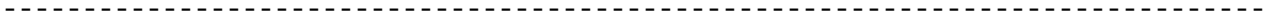
TIME TO PEAK (hrs)= 13.417

RUNOFF VOLUME (mm)= 81.572

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.596

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.



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| READ STORM |
|           |
| Ptotal=136.80 mm |
|           |
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Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
Comments: 100yr 24hr 15min SCS

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0256) |
| ID= 1 DT= 5.0 min |
|           |
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Area (ha)=2177.45 Curve Number (CN)= 78.0
Ia (mm)= 7.30 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 5.73

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46

0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64

4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 14.514

PEAK FLOW (cms)= 38.005 (i)
 TIME TO PEAK (hrs)= 18.750
 RUNOFF VOLUME (mm)= 83.376
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.609

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=136.80 mm	Filename: C:\Users\p001130E\AppData Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f Comments: 100yr 24hr 15min SCS
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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64

3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB          |
| NASHYD ( 0257) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 27.93   Curve Number  (CN)= 82.0
Ia        (mm)=  8.64   # of Linear Res.(N)= 3.00
U.H. Tp(hrs)=  0.48

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46

1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 2.223

PEAK FLOW (cms)= 3.595 (i)
TIME TO PEAK (hrs)= 12.583
RUNOFF VOLUME (mm)= 89.302
TOTAL RAINFALL (mm)= 136.800
RUNOFF COEFFICIENT = 0.653

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| READ STORM | Filename: C:\Users\p001130E\AppData
| | ata\Local\Temp\
| | 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
| Ptotal=136.80 mm | Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB

NASHYD (0259)	Area (ha)= 44.21	Curve Number (CN)= 87.0
ID= 1 DT= 5.0 min	Ia (mm)= 5.78	# of Linear Res.(N)= 3.00
-----	U.H. Tp(hrs)= 0.74	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64

3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 2.282

PEAK FLOW (cms)= 4.686 (i)

TIME TO PEAK (hrs)= 12.917

RUNOFF VOLUME (mm)= 101.590

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.743

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\f7aa8a9f
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB			
NASHYD (0260)	Area (ha)=	64.73	Curve Number (CN)= 81.8
ID= 1 DT= 5.0 min	Ia (mm)=	8.50	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.40	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46

0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64

5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 6.181

PEAK FLOW (cms)= 9.496 (i)

TIME TO PEAK (hrs)= 12.500

RUNOFF VOLUME (mm)= 89.057

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.651

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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V V I SSSSS U U A L (v 5.2.2003)
V V I SS U U A A L
V V I SS U U AAAAA L
V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL

000 TTTTT TTTTT H H Y Y M M 000 TM
0 0 T T H H Y Y MM MM 0 0
0 0 T T H H Y M M 0 0
000 T T H H Y M M 000

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 5.2\V02\voin.dat

Output filename:

C:\Users\p001130E\AppData\Local\Civica\VH5\90177c49-c212-41e8-9d24-aaf9b547bf89\543e
bb08-ab82-4821-a0d6-bac5d82cbf74\sce

Summary filename:

C:\Users\p001130E\AppData\Local\Civica\VH5\90177c49-c212-41e8-9d24-aaf9b547bf89\543e
bb08-ab82-4821-a0d6-bac5d82cbf74\sce

DATE: 10/10/2019

TIME: 07:29:16

USER:

COMMENTS: _____

** SIMULATION : 50yr_SCS_24hr **

| READ STORM |

Filename: C:\Users\p001130E\AppData
ata\Local\Temp\
84750fae-dd01-436a-b211-c38404211d39\4fe4781d

| Ptotal=127.20 mm | Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB			
NASHYD (0216)	Area (ha)=	33.36	Curve Number (CN)= 76.0
ID= 1 DT= 5.0 min	Ia (mm)=	7.88	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	1.44	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29

0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53

4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 0.885

PEAK FLOW (cms)= 1.481 (i)
 TIME TO PEAK (hrs)= 13.667
 RUNOFF VOLUME (mm)= 71.354
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.561

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
Ptotal=127.20 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53

4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

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| CALIB |
| NASHYD ( 0217) | Area (ha)= 121.20 Curve Number (CN)= 81.0
| ID= 1 DT= 5.0 min | Ia (mm)= 9.21 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 1.47

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53

2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 3.149

PEAK FLOW (cms)= 5.904 (i)

TIME TO PEAK (hrs)= 13.750
 RUNOFF VOLUME (mm)= 78.401
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.616

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=127.20 mm	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\4fe4781d Comments: 50yr 24hr 15min SCS
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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB NASHYD (0221) ID= 1 DT= 5.0 min	Area (ha)= 10.92 Ia (mm)= 8.70 U.H. Tp(hrs)= 0.53	Curve Number (CN)= 74.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53

3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 0.787

PEAK FLOW (cms)= 0.969 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 67.591
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.531

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29

0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB							
NASHYD (0222)	Area	(ha)= 40.89	Curve Number	(CN)= 77.0			
ID= 1 DT= 5.0 min	Ia	(mm)= 7.60	# of Linear Res.(N)= 3.00				
	U.H. Tp(hrs)=	0.52					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29

1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53

5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 3.003

PEAK FLOW (cms)= 4.004 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 73.175
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.575

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=127.20 mm	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\4fe4781d Comments: 50yr 24hr 15min SCS
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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53

5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB			
NASHYD (0223)	Area (ha)= 134.22	Curve Number (CN)= 82.0	
ID= 1 DT= 5.0 min	Ia (mm)= 8.16	# of Linear Res.(N)= 3.00	
	U.H. Tp(hrs)= 0.84		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53

2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 6.103

PEAK FLOW (cms)= 10.372 (i)
 TIME TO PEAK (hrs)= 13.000
 RUNOFF VOLUME (mm)= 81.068
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.637

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData\Local\Temp\84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
 NASHYD (0227)
 ID= 1 DT= 5.0 min

Area (ha)= 170.30 Curve Number (CN)= 81.0
 Ia (mm)= 8.67 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.92

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53

4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 7.070

PEAK FLOW (cms)= 11.941 (i)
 TIME TO PEAK (hrs)= 13.083
 RUNOFF VOLUME (mm)= 78.880
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.620

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
Ptotal=127.20 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53

2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB			
NASHYD (0228)	Area (ha)=	67.35	Curve Number (CN)= 83.0
ID= 1 DT= 5.0 min	Ia (mm)=	7.68	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	1.01	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29

1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53

5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 2.547

PEAK FLOW (cms)= 4.651 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 83.273
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.655

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB			
NASHYD (0229)	Area (ha)=	9.36	Curve Number (CN)= 75.0
ID= 1 DT= 5.0 min	Ia (mm)=	8.57	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.35	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53

3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 1.021

PEAK FLOW (cms)= 1.148 (i)

TIME TO PEAK (hrs)= 12.500

RUNOFF VOLUME (mm)= 69.210

TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.544

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM

Filename: C:\Users\p001130E\AppData
Local\Temp\

| Ptotal=127.20 mm |

84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

 | CALIB |
 | NASHYD (0230) |
 | ID= 1 DT= 5.0 min |

Area (ha)= 107.44 Curve Number (CN)= 85.0
 Ia (mm)= 6.76 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.96

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29

0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53

4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 4.275

PEAK FLOW (cms)= 8.126 (i)

TIME TO PEAK (hrs)= 13.167

RUNOFF VOLUME (mm)= 87.773

TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.690

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
Ptotal=127.20 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53

3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

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| CALIB |
| NASHYD ( 0231) | Area (ha)= 37.66 Curve Number (CN)= 82.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.15 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.49

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53

2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 2.936

PEAK FLOW (cms)= 4.321 (i)
 TIME TO PEAK (hrs)= 12.583
 RUNOFF VOLUME (mm)= 81.073
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.637

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=127.20 mm	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\4fe4781d Comments: 50yr 24hr 15min SCS
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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB NASHYD (0232) ID= 1 DT= 5.0 min	Area (ha)= 36.87 Ia (mm)= 7.16 U.H. Tp(hrs)= 0.72	Curve Number (CN)= 84.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53

3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 1.956

PEAK FLOW (cms)= 3.371 (i)
 TIME TO PEAK (hrs)= 12.833
 RUNOFF VOLUME (mm)= 85.556
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.673

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29

0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB							
NASHYD (0233)	Area (ha)=	23.67	Curve Number (CN)=	82.0			
ID= 1 DT= 5.0 min	Ia (mm)=	8.27	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	0.53					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29

1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53

5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 1.706

PEAK FLOW (cms)= 2.565 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 80.967
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.637

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53

5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB							
NASHYD (0234)		Area (ha)=	24.78	Curve Number (CN)=	83.0		
ID= 1 DT= 5.0 min		Ia (mm)=	7.75	# of Linear Res.(N)=	3.00		
		U.H. Tp(hrs)=	0.52				

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53

2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 1.821

PEAK FLOW (cms)= 2.797 (i)

TIME TO PEAK (hrs)= 12.667

RUNOFF VOLUME (mm)= 83.206

TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.654

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | READ STORM |
Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

 | CALIB |
 | NASHYD (0235) |
ID= 1 DT= 5.0 min

Area (ha)= 10.29 Curve Number (CN)= 84.0
 Ia (mm)= 7.52 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.26

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
------	------	------	------	------	------	------	------

hrs	mm/hr	hrs	mm/hr	'	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29	
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29	
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29	
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29	
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29	
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29	
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29	
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29	
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29	
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29	
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29	
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29	
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29	
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29	
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29	
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29	
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29	
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29	
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29	
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29	
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29	
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29	
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29	
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29	
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53	
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53	
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53	
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53	
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53	
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53	
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53	
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53	
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53	
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53	
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53	
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53	
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53	
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53	
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53	
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53	
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53	
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53	
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53	
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53	
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53	
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53	
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53	
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53	
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53	
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53	

4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 1.512

PEAK FLOW (cms)= 1.951 (i)
 TIME TO PEAK (hrs)= 12.333
 RUNOFF VOLUME (mm)= 85.169
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.670

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53

2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB							
NASHYD (0236)	Area (ha)=	96.69	Curve Number (CN)=	84.0			
ID= 1 DT= 5.0 min	Ia (mm)=	7.46	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	0.95					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29

1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53

5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 3.888

PEAK FLOW (cms)= 7.169 (i)

TIME TO PEAK (hrs)= 13.083

RUNOFF VOLUME (mm)= 85.282

TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.670

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
ata\Local\Temp\
84750fae-dd01-436a-b211-c38404211d39\4fe4781d
Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

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| CALIB |
| NASHYD ( 0237) | Area (ha)=***** Curve Number (CN)= 74.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.78 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 19.78

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53

3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 64.209

PEAK FLOW (cms)= 165.602 (i)

TIME TO PEAK (hrs)= 34.083

RUNOFF VOLUME (mm)= 65.493

TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.515

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| READ STORM |

Filename: C:\Users\p001130E\AppData

Ptotal=127.20 mm

ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
 NASHYD (0238)
 ID= 1 DT= 5.0 min

Area (ha)= 559.83 Curve Number (CN)= 82.0
 Ia (mm)= 8.22 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 3.22

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29

0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53

4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 6.641

PEAK FLOW (cms)= 15.175 (i)
 TIME TO PEAK (hrs)= 15.750
 RUNOFF VOLUME (mm)= 81.015
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.637

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | READ STORM |
Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53

3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

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| CALIB          |
| NASHYD ( 0239) |
| ID= 1 DT= 5.0 min |
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Area      (ha)=3254.82   Curve Number  (CN)= 85.0
Ia        (mm)= 6.74    # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 7.87

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29

2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 15.796

PEAK FLOW (cms)= 46.565 (i)
 TIME TO PEAK (hrs)= 21.250
 RUNOFF VOLUME (mm)= 87.792
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.690

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
Ptotal=127.20 mm	Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB	Area (ha)=*****	Curve Number (CN)= 65.0
NASHYD (0240)	Ia (mm)= 10.40	# of Linear Res.(N)= 3.00
ID= 1 DT= 5.0 min		

----- U.H. Tp(hrs)= 27.50

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53

3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 94.573

PEAK FLOW (cms)= 197.215 (i)

TIME TO PEAK (hrs)= 41.833

RUNOFF VOLUME (mm)= 47.172

TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.371

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData
	ata\Local\Temp\
	84750fae-dd01-436a-b211-c38404211d39\4fe4781d
Ptotal=127.20 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr

0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

| CALIB |
| NASHYD (0241) | Area (ha)= 238.20 Curve Number (CN)= 86.0
| ID= 1 DT= 5.0 min | Ia (mm)= 6.41 # of Linear Res.(N)= 3.00
|-----| U.H. Tp(hrs)= 1.27

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29

1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53

5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 7.164

PEAK FLOW (cms)= 14.943 (i)

TIME TO PEAK (hrs)= 13.500

RUNOFF VOLUME (mm)= 89.986

TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.707

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53

5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

 | CALIB |
 | NASHYD (0243) |
ID= 1 DT= 5.0 min

Area (ha)= 33.70 Curve Number (CN)= 87.0
 Ia (mm)= 5.75 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 1.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53

2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 1.287

PEAK FLOW (cms)= 2.605 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 92.532
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.727

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | READ STORM |
Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

 | CALIB |
 | NASHYD (0245) |
ID= 1 DT= 5.0 min

Area (ha)= 22.12 Curve Number (CN)= 81.0
 Ia (mm)= 8.66 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.47

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53

4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 1.798

PEAK FLOW (cms)= 2.549 (i)
 TIME TO PEAK (hrs)= 12.583
 RUNOFF VOLUME (mm)= 78.884
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.620

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29

1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB							
NASHYD (0246)	Area (ha)=	102.21	Curve Number (CN)=	82.0			
ID= 1 DT= 5.0 min	Ia (mm)=	8.62	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	1.48					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29

1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53

5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 2.638

PEAK FLOW (cms)= 5.102 (i)
 TIME TO PEAK (hrs)= 13.750
 RUNOFF VOLUME (mm)= 80.656
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.634

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		


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| CALIB |
| NASHYD ( 0247) | Area (ha)=***** Curve Number (CN)= 68.0
| ID= 1 DT= 5.0 min | Ia (mm)= 9.01 # of Linear Res.(N)= 3.00
|-----| U.H. Tp(hrs)= 19.99

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53

3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 57.282

PEAK FLOW (cms)= 128.575 (i)

TIME TO PEAK (hrs)= 34.417

RUNOFF VOLUME (mm)= 56.876

TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.447

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB
 NASHYD (0248)
 ID= 1 DT= 5.0 min

Area (ha)= 48.53 Curve Number (CN)= 80.0
 Ia (mm)= 9.35 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.74

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29

0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53

4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 2.505

PEAK FLOW (cms)= 3.888 (i)
 TIME TO PEAK (hrs)= 12.917
 RUNOFF VOLUME (mm)= 76.584
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.602

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=127.20 mm	Filename: C:\Users\p001130E\AppData Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\4fe4781d Comments: 50yr 24hr 15min SCS
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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53

3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

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| CALIB          |
| NASHYD ( 0249)|
| ID= 1 DT= 5.0 min |
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Area      (ha)= 56.39   Curve Number (CN)= 80.0
Ia        (mm)= 9.26    # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.97

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29

2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 2.220

PEAK FLOW (cms)= 3.687 (i)
TIME TO PEAK (hrs)= 13.167
RUNOFF VOLUME (mm)= 76.663
TOTAL RAINFALL (mm)= 127.200
RUNOFF COEFFICIENT = 0.603

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| READ STORM | Filename: C:\Users\p001130E\AppData
| | ata\Local\Temp\
| | 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
| Ptotal=127.20 mm | Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

| CALIB |
| NASHYD (0250) | Area (ha)= 85.49 Curve Number (CN)= 79.0

|ID= 1 DT= 5.0 min | Ia (mm)= 6.94 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.57

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53

3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 5.728

PEAK FLOW (cms)= 8.243 (i)

TIME TO PEAK (hrs)= 12.667

RUNOFF VOLUME (mm)= 77.016

TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.605

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN

hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB			
NASHYD (0251)	Area (ha)=	61.50	Curve Number (CN)= 81.0
ID= 1 DT= 5.0 min	Ia (mm)=	9.19	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	1.00	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29

0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53

5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 2.349

PEAK FLOW (cms)= 4.028 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 78.418
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.616

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53

4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

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| CALIB          |
| NASHYD ( 0252) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 217.02   Curve Number (CN)= 78.0
Ia        (mm)= 7.33    # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 1.08

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53

2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 7.675

PEAK FLOW (cms)= 12.675 (i)

TIME TO PEAK (hrs)= 13.250

RUNOFF VOLUME (mm)= 75.028

TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.590

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | READ STORM |
Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

 | CALIB |
 | NASHYD (0253) |
ID= 1 DT= 5.0 min

Area (ha)= 57.31 Curve Number (CN)= 78.0
 Ia (mm)= 7.24 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.45

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53

4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 4.864

PEAK FLOW (cms)= 6.413 (i)

TIME TO PEAK (hrs)= 12.583

RUNOFF VOLUME (mm)= 75.100

TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.590

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29

1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB							
NASHYD (0254)	Area (ha)=	103.83	Curve Number (CN)=	77.0			
ID= 1 DT= 5.0 min	Ia (mm)=	7.55	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	1.16					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29

1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53

5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 3.419

PEAK FLOW (cms)= 5.593 (i)
 TIME TO PEAK (hrs)= 13.417
 RUNOFF VOLUME (mm)= 73.221
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.576

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=127.20 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		

6.25 2.04 | 12.50 18.32 | 18.75 2.29 |

CALIB		
NASHYD (0255)	Area (ha)= 126.79	Curve Number (CN)= 77.0
ID= 1 DT= 5.0 min	Ia (mm)= 7.40	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 1.21	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53

3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 4.002

PEAK FLOW (cms)= 6.627 (i)

TIME TO PEAK (hrs)= 13.417

RUNOFF VOLUME (mm)= 73.348

TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.577

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| READ STORM |
|           |
| Ptotal=127.20 mm |
|           |
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Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          84750fae-dd01-436a-b211-c38404211d39\4fe4781d
Comments: 50yr 24hr 15min SCS

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

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| CALIB |
| NASHYD ( 0256) |
| ID= 1 DT= 5.0 min |
|           |
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Area (ha)=2177.45 Curve Number (CN)= 78.0
Ia (mm)= 7.30 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 5.73

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29

0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53

4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 14.514

PEAK FLOW (cms)= 34.160 (i)
 TIME TO PEAK (hrs)= 18.750
 RUNOFF VOLUME (mm)= 75.055
 TOTAL RAINFALL (mm)= 127.200
 RUNOFF COEFFICIENT = 0.590

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=127.20 mm	Filename: C:\Users\p001130E\AppData Local\Temp\ 84750fae-dd01-436a-b211-c38404211d39\4fe4781d Comments: 50yr 24hr 15min SCS
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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53

3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

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| CALIB          |
| NASHYD ( 0257) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 27.93   Curve Number (CN)= 82.0
Ia        (mm)=  8.64   # of Linear Res.(N)= 3.00
U.H. Tp(hrs)=  0.48

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29

1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 2.223

PEAK FLOW (cms)= 3.245 (i)
TIME TO PEAK (hrs)= 12.583
RUNOFF VOLUME (mm)= 80.633
TOTAL RAINFALL (mm)= 127.200
RUNOFF COEFFICIENT = 0.634

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| READ STORM | Filename: C:\Users\p001130E\AppData
| | ata\Local\Temp\
| | 84750fae-dd01-436a-b211-c38404211d39\4fe4781d
| Ptotal=127.20 mm | Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB

NASHYD (0259)	Area (ha)= 44.21	Curve Number (CN)= 87.0
ID= 1 DT= 5.0 min	Ia (mm)= 5.78	# of Linear Res.(N)= 3.00
-----	U.H. Tp(hrs)= 0.74	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29
0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53

3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53
5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 2.282

PEAK FLOW (cms)= 4.274 (i)

TIME TO PEAK (hrs)= 12.917

RUNOFF VOLUME (mm)= 92.503

TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.727

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData
	ata\Local\Temp\
	84750fae-dd01-436a-b211-c38404211d39\4fe4781d
Ptotal=127.20 mm	Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.29	12.75	18.32	19.00	2.29
0.50	1.40	6.75	2.29	13.00	9.41	19.25	2.29
0.75	1.40	7.00	2.29	13.25	9.41	19.50	2.29
1.00	1.40	7.25	2.29	13.50	6.87	19.75	2.29
1.25	1.40	7.50	2.80	13.75	6.87	20.00	2.29
1.50	1.40	7.75	2.80	14.00	5.34	20.25	2.29
1.75	1.40	8.00	2.80	14.25	5.34	20.50	1.53
2.00	1.40	8.25	2.80	14.50	3.82	20.75	1.53
2.25	1.40	8.50	3.31	14.75	3.82	21.00	1.53
2.50	1.65	8.75	3.31	15.00	3.82	21.25	1.53
2.75	1.65	9.00	3.56	15.25	3.82	21.50	1.53
3.00	1.65	9.25	3.56	15.50	3.82	21.75	1.53
3.25	1.65	9.50	4.07	15.75	3.82	22.00	1.53
3.50	1.65	9.75	4.07	16.00	3.82	22.25	1.53
3.75	1.65	10.00	4.58	16.25	3.82	22.50	1.53
4.00	1.65	10.25	4.58	16.50	2.29	22.75	1.53
4.25	1.65	10.50	5.85	16.75	2.29	23.00	1.53
4.50	2.04	10.75	5.85	17.00	2.29	23.25	1.53
4.75	2.04	11.00	7.89	17.25	2.29	23.50	1.53
5.00	2.04	11.25	7.89	17.50	2.29	23.75	1.53
5.25	2.04	11.50	12.21	17.75	2.29	24.00	1.53
5.50	2.04	11.75	12.21	18.00	2.29	24.25	1.53
5.75	2.04	12.00	37.65	18.25	2.29		
6.00	2.04	12.25	155.69	18.50	2.29		
6.25	2.04	12.50	18.32	18.75	2.29		

CALIB			
NASHYD (0260)	Area (ha)=	64.73	Curve Number (CN)= 81.8
ID= 1 DT= 5.0 min	Ia (mm)=	8.50	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.40	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.04	12.250	155.69	18.33	2.29
0.167	0.00	6.250	2.04	12.333	18.33	18.42	2.29
0.250	0.00	6.333	2.29	12.417	18.32	18.50	2.29
0.333	1.40	6.417	2.29	12.500	18.32	18.58	2.29
0.417	1.40	6.500	2.29	12.583	18.32	18.67	2.29
0.500	1.40	6.583	2.29	12.667	18.32	18.75	2.29
0.583	1.40	6.667	2.29	12.750	18.32	18.83	2.29
0.667	1.40	6.750	2.29	12.833	9.41	18.92	2.29
0.750	1.40	6.833	2.29	12.917	9.41	19.00	2.29

0.833	1.40	6.917	2.29	13.000	9.41	19.08	2.29
0.917	1.40	7.000	2.29	13.083	9.41	19.17	2.29
1.000	1.40	7.083	2.29	13.167	9.41	19.25	2.29
1.083	1.40	7.167	2.29	13.250	9.41	19.33	2.29
1.167	1.40	7.250	2.29	13.333	6.87	19.42	2.29
1.250	1.40	7.333	2.80	13.417	6.87	19.50	2.29
1.333	1.40	7.417	2.80	13.500	6.87	19.58	2.29
1.417	1.40	7.500	2.80	13.583	6.87	19.67	2.29
1.500	1.40	7.583	2.80	13.667	6.87	19.75	2.29
1.583	1.40	7.667	2.80	13.750	6.87	19.83	2.29
1.667	1.40	7.750	2.80	13.833	5.34	19.92	2.29
1.750	1.40	7.833	2.80	13.917	5.34	20.00	2.29
1.833	1.40	7.917	2.80	14.000	5.34	20.08	2.29
1.917	1.40	8.000	2.80	14.083	5.34	20.17	2.29
2.000	1.40	8.083	2.80	14.167	5.34	20.25	2.29
2.083	1.40	8.167	2.80	14.250	5.34	20.33	1.53
2.167	1.40	8.250	2.80	14.333	3.82	20.42	1.53
2.250	1.40	8.333	3.31	14.417	3.82	20.50	1.53
2.333	1.65	8.417	3.31	14.500	3.82	20.58	1.53
2.417	1.65	8.500	3.31	14.583	3.82	20.67	1.53
2.500	1.65	8.583	3.31	14.667	3.82	20.75	1.53
2.583	1.65	8.667	3.31	14.750	3.82	20.83	1.53
2.667	1.65	8.750	3.31	14.833	3.82	20.92	1.53
2.750	1.65	8.833	3.56	14.917	3.82	21.00	1.53
2.833	1.65	8.917	3.56	15.000	3.82	21.08	1.53
2.917	1.65	9.000	3.56	15.083	3.82	21.17	1.53
3.000	1.65	9.083	3.56	15.167	3.82	21.25	1.53
3.083	1.65	9.167	3.56	15.250	3.82	21.33	1.53
3.167	1.65	9.250	3.56	15.333	3.82	21.42	1.53
3.250	1.65	9.333	4.07	15.417	3.82	21.50	1.53
3.333	1.65	9.417	4.07	15.500	3.82	21.58	1.53
3.417	1.65	9.500	4.07	15.583	3.82	21.67	1.53
3.500	1.65	9.583	4.07	15.667	3.82	21.75	1.53
3.583	1.65	9.667	4.07	15.750	3.82	21.83	1.53
3.667	1.65	9.750	4.07	15.833	3.82	21.92	1.53
3.750	1.65	9.833	4.58	15.917	3.82	22.00	1.53
3.833	1.65	9.917	4.58	16.000	3.82	22.08	1.53
3.917	1.65	10.000	4.58	16.083	3.82	22.17	1.53
4.000	1.65	10.083	4.58	16.167	3.82	22.25	1.53
4.083	1.65	10.167	4.58	16.250	3.82	22.33	1.53
4.167	1.65	10.250	4.58	16.333	2.29	22.42	1.53
4.250	1.65	10.333	5.85	16.417	2.29	22.50	1.53
4.333	2.04	10.417	5.85	16.500	2.29	22.58	1.53
4.417	2.04	10.500	5.85	16.583	2.29	22.67	1.53
4.500	2.04	10.583	5.85	16.667	2.29	22.75	1.53
4.583	2.04	10.667	5.85	16.750	2.29	22.83	1.53
4.667	2.04	10.750	5.85	16.833	2.29	22.92	1.53
4.750	2.04	10.833	7.89	16.917	2.29	23.00	1.53
4.833	2.04	10.917	7.89	17.000	2.29	23.08	1.53
4.917	2.04	11.000	7.89	17.083	2.29	23.17	1.53
5.000	2.04	11.083	7.89	17.167	2.29	23.25	1.53

5.083	2.04	11.167	7.89	17.250	2.29	23.33	1.53
5.167	2.04	11.250	7.89	17.333	2.29	23.42	1.53
5.250	2.04	11.333	12.21	17.417	2.29	23.50	1.53
5.333	2.04	11.417	12.21	17.500	2.29	23.58	1.53
5.417	2.04	11.500	12.21	17.583	2.29	23.67	1.53
5.500	2.04	11.583	12.21	17.667	2.29	23.75	1.53
5.583	2.04	11.667	12.21	17.750	2.29	23.83	1.53
5.667	2.04	11.750	12.21	17.833	2.29	23.92	1.53
5.750	2.04	11.833	37.65	17.917	2.29	24.00	1.53
5.833	2.04	11.917	37.65	18.000	2.29	24.08	1.53
5.917	2.04	12.000	37.65	18.083	2.29	24.17	1.53
6.000	2.04	12.083	155.68	18.167	2.29	24.25	1.53
6.083	2.04	12.167	155.69	18.250	2.29		

Unit Hyd Qpeak (cms)= 6.181

PEAK FLOW (cms)= 8.572 (i)

TIME TO PEAK (hrs)= 12.500

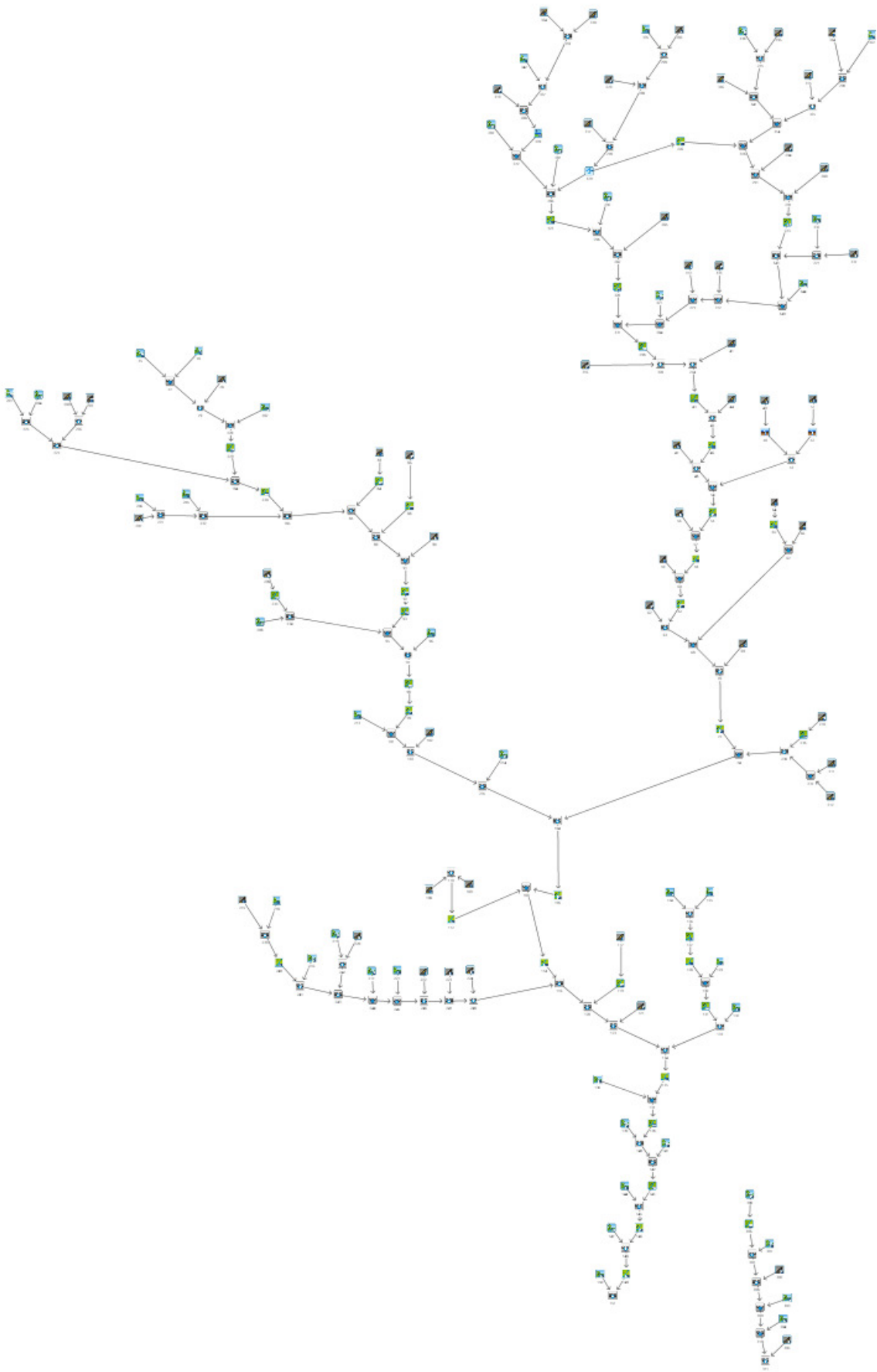
RUNOFF VOLUME (mm)= 80.404

TOTAL RAINFALL (mm)= 127.200

RUNOFF COEFFICIENT = 0.632

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.





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V V I SSSSS U U A L
V V I SS U U A A L
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V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL

000 TTTTT TTTTT H H Y Y M M 000 TM
O O T T H H Y Y MM MM O O
O O T T H H Y M M O O
000 T T H H Y M M 000

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 5.0\V02\voin.dat

Output filename:

C:\Users\p001130E\AppData\Local\Civica\VH5\eac855d9-c080-4f8c-adb7-9ddc313622b4\761b7176-70c2-46f9-a25d-66d5b4cdb332\sce

Summary filename:

C:\Users\p001130E\AppData\Local\Civica\VH5\eac855d9-c080-4f8c-adb7-9ddc313622b4\761b7176-70c2-46f9-a25d-66d5b4cdb332\sce

DATE: 08/15/2019

TIME: 03:28:07

USER:

COMMENTS: _____

** SIMULATION : TWY4 Reg **

| READ STORM |

Filename: C:\Users\p001130E\AppData\Local\Temp\bc1e01c8-2575-4de4-9ede-b554b2d44087\3c8d15e9

| Ptotal=252.60 mm | Comments: Hazel

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.20	2.03	8.40	2.03	16.60	2.03	24.80	17.00
0.40	2.03	8.60	2.03	16.80	2.03	25.00	17.00
0.60	2.03	8.80	2.03	17.00	2.03	25.20	13.00
0.80	2.03	9.00	2.03	17.20	2.03	25.40	13.00
1.00	2.03	9.20	2.03	17.40	2.03	25.60	13.00
1.20	2.03	9.40	2.03	17.60	2.03	25.80	13.00
1.40	2.03	9.60	2.03	17.80	2.03	26.00	13.00
1.60	2.03	9.80	2.03	18.00	2.03	26.20	23.00
1.80	2.03	10.00	2.03	18.20	2.03	26.40	23.00
2.00	2.03	10.20	2.03	18.40	2.03	26.60	23.00
2.20	2.03	10.40	2.03	18.60	2.03	26.80	23.00
2.40	2.03	10.60	2.03	18.80	2.03	27.00	23.00
2.60	2.03	10.80	2.03	19.00	2.03	27.20	13.00
2.80	2.03	11.00	2.03	19.20	2.03	27.40	13.00
3.00	2.03	11.20	2.03	19.40	2.03	27.60	13.00
3.20	2.03	11.40	2.03	19.60	2.03	27.80	13.00
3.40	2.03	11.60	2.03	19.80	2.03	28.00	13.00
3.60	2.03	11.80	2.03	20.00	2.03	28.20	13.00
3.80	2.03	12.00	2.03	20.20	6.00	28.40	13.00
4.00	2.03	12.20	2.03	20.40	6.00	28.60	13.00
4.20	2.03	12.40	2.03	20.60	6.00	28.80	13.00
4.40	2.03	12.60	2.03	20.80	6.00	29.00	13.00
4.60	2.03	12.80	2.03	21.00	6.00	29.20	53.00
4.80	2.03	13.00	2.03	21.20	4.00	29.40	53.00
5.00	2.03	13.20	2.03	21.40	4.00	29.60	53.00
5.20	2.03	13.40	2.03	21.60	4.00	29.80	53.00
5.40	2.03	13.60	2.03	21.80	4.00	30.00	53.00
5.60	2.03	13.80	2.03	22.00	4.00	30.20	38.00
5.80	2.03	14.00	2.03	22.20	6.00	30.40	38.00
6.00	2.03	14.20	2.03	22.40	6.00	30.60	38.00
6.20	2.03	14.40	2.03	22.60	6.00	30.80	38.00
6.40	2.03	14.60	2.03	22.80	6.00	31.00	38.00
6.60	2.03	14.80	2.03	23.00	6.00	31.20	13.00
6.80	2.03	15.00	2.03	23.20	13.00	31.40	13.00
7.00	2.03	15.20	2.03	23.40	13.00	31.60	13.00
7.20	2.03	15.40	2.03	23.60	13.00	31.80	13.00
7.40	2.03	15.60	2.03	23.80	13.00	32.00	13.00
7.60	2.03	15.80	2.03	24.00	13.00	32.20	0.00
7.80	2.03	16.00	2.03	24.20	17.00		
8.00	2.03	16.20	2.03	24.40	17.00		
8.20	2.03	16.40	2.03	24.60	17.00		

| CALIB |
 | NASHYD (0150) | Area (ha)= 125.00 Curve Number (CN)= 86.0

|ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 4.00
 ----- U.H. Tp(hrs)= 0.93

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	2.03	8.167	2.03	16.250	2.03	24.33	17.00
0.167	2.03	8.250	2.03	16.333	2.03	24.42	17.00
0.250	2.03	8.333	2.03	16.417	2.03	24.50	17.00
0.333	2.03	8.417	2.03	16.500	2.03	24.58	17.00
0.417	2.03	8.500	2.03	16.583	2.03	24.67	17.00
0.500	2.03	8.583	2.03	16.667	2.03	24.75	17.00
0.583	2.03	8.667	2.03	16.750	2.03	24.83	17.00
0.667	2.03	8.750	2.03	16.833	2.03	24.92	17.00
0.750	2.03	8.833	2.03	16.917	2.03	25.00	17.00
0.833	2.03	8.917	2.03	17.000	2.03	25.08	13.00
0.917	2.03	9.000	2.03	17.083	2.03	25.17	13.00
1.000	2.03	9.083	2.03	17.167	2.03	25.25	13.00
1.083	2.03	9.167	2.03	17.250	2.03	25.33	13.00
1.167	2.03	9.250	2.03	17.333	2.03	25.42	13.00
1.250	2.03	9.333	2.03	17.417	2.03	25.50	13.00
1.333	2.03	9.417	2.03	17.500	2.03	25.58	13.00
1.417	2.03	9.500	2.03	17.583	2.03	25.67	13.00
1.500	2.03	9.583	2.03	17.667	2.03	25.75	13.00
1.583	2.03	9.667	2.03	17.750	2.03	25.83	13.00
1.667	2.03	9.750	2.03	17.833	2.03	25.92	13.00
1.750	2.03	9.833	2.03	17.917	2.03	26.00	13.01
1.833	2.03	9.917	2.03	18.000	2.03	26.08	23.00
1.917	2.03	10.000	2.03	18.083	2.03	26.17	23.00
2.000	2.03	10.083	2.03	18.167	2.03	26.25	23.00
2.083	2.03	10.167	2.03	18.250	2.03	26.33	23.00
2.167	2.03	10.250	2.03	18.333	2.03	26.42	23.00
2.250	2.03	10.333	2.03	18.417	2.03	26.50	23.00
2.333	2.03	10.417	2.03	18.500	2.03	26.58	23.00
2.417	2.03	10.500	2.03	18.583	2.03	26.67	23.00
2.500	2.03	10.583	2.03	18.667	2.03	26.75	23.00
2.583	2.03	10.667	2.03	18.750	2.03	26.83	23.00
2.667	2.03	10.750	2.03	18.833	2.03	26.92	23.00
2.750	2.03	10.833	2.03	18.917	2.03	27.00	22.99
2.833	2.03	10.917	2.03	19.000	2.03	27.08	13.00
2.917	2.03	11.000	2.03	19.083	2.03	27.17	13.00
3.000	2.03	11.083	2.03	19.167	2.03	27.25	13.00
3.083	2.03	11.167	2.03	19.250	2.03	27.33	13.00
3.167	2.03	11.250	2.03	19.333	2.03	27.42	13.00
3.250	2.03	11.333	2.03	19.417	2.03	27.50	13.00
3.333	2.03	11.417	2.03	19.500	2.03	27.58	13.00
3.417	2.03	11.500	2.03	19.583	2.03	27.67	13.00
3.500	2.03	11.583	2.03	19.667	2.03	27.75	13.00

3.583	2.03	11.667	2.03	19.750	2.03	27.83	13.00
3.667	2.03	11.750	2.03	19.833	2.03	27.92	13.00
3.750	2.03	11.833	2.03	19.917	2.03	28.00	13.00
3.833	2.03	11.917	2.03	20.000	2.03	28.08	13.00
3.917	2.03	12.000	2.03	20.083	6.00	28.17	13.00
4.000	2.03	12.083	2.03	20.167	6.00	28.25	13.00
4.083	2.03	12.167	2.03	20.250	6.00	28.33	13.00
4.167	2.03	12.250	2.03	20.333	6.00	28.42	13.00
4.250	2.03	12.333	2.03	20.417	6.00	28.50	13.00
4.333	2.03	12.417	2.03	20.500	6.00	28.58	13.00
4.417	2.03	12.500	2.03	20.583	6.00	28.67	13.00
4.500	2.03	12.583	2.03	20.667	6.00	28.75	13.00
4.583	2.03	12.667	2.03	20.750	6.00	28.83	13.00
4.667	2.03	12.750	2.03	20.833	6.00	28.92	13.00
4.750	2.03	12.833	2.03	20.917	6.00	29.00	13.04
4.833	2.03	12.917	2.03	21.000	6.00	29.08	53.00
4.917	2.03	13.000	2.03	21.083	4.00	29.17	53.00
5.000	2.03	13.083	2.03	21.167	4.00	29.25	53.00
5.083	2.03	13.167	2.03	21.250	4.00	29.33	53.00
5.167	2.03	13.250	2.03	21.333	4.00	29.42	53.00
5.250	2.03	13.333	2.03	21.417	4.00	29.50	53.00
5.333	2.03	13.417	2.03	21.500	4.00	29.58	53.00
5.417	2.03	13.500	2.03	21.583	4.00	29.67	53.00
5.500	2.03	13.583	2.03	21.667	4.00	29.75	53.00
5.583	2.03	13.667	2.03	21.750	4.00	29.83	53.00
5.667	2.03	13.750	2.03	21.833	4.00	29.92	53.00
5.750	2.03	13.833	2.03	21.917	4.00	30.00	52.99
5.833	2.03	13.917	2.03	22.000	4.00	30.08	38.00
5.917	2.03	14.000	2.03	22.083	6.00	30.17	38.00
6.000	2.03	14.083	2.03	22.167	6.00	30.25	38.00
6.083	2.03	14.167	2.03	22.250	6.00	30.33	38.00
6.167	2.03	14.250	2.03	22.333	6.00	30.42	38.00
6.250	2.03	14.333	2.03	22.417	6.00	30.50	38.00
6.333	2.03	14.417	2.03	22.500	6.00	30.58	38.00
6.417	2.03	14.500	2.03	22.583	6.00	30.67	38.00
6.500	2.03	14.583	2.03	22.667	6.00	30.75	38.00
6.583	2.03	14.667	2.03	22.750	6.00	30.83	38.00
6.667	2.03	14.750	2.03	22.833	6.00	30.92	38.00
6.750	2.03	14.833	2.03	22.917	6.00	31.00	37.97
6.833	2.03	14.917	2.03	23.000	6.00	31.08	13.00
6.917	2.03	15.000	2.03	23.083	13.00	31.17	13.00
7.000	2.03	15.083	2.03	23.167	13.00	31.25	13.00
7.083	2.03	15.167	2.03	23.250	13.00	31.33	13.00
7.167	2.03	15.250	2.03	23.333	13.00	31.42	13.00
7.250	2.03	15.333	2.03	23.417	13.00	31.50	13.00
7.333	2.03	15.417	2.03	23.500	13.00	31.58	13.00
7.417	2.03	15.500	2.03	23.583	13.00	31.67	13.00
7.500	2.03	15.583	2.03	23.667	13.00	31.75	13.00
7.583	2.03	15.667	2.03	23.750	13.00	31.83	13.00
7.667	2.03	15.750	2.03	23.833	13.00	31.92	13.00
7.750	2.03	15.833	2.03	23.917	13.00	32.00	12.99

7.833	2.03	15.917	2.03	24.000	13.00	32.08	0.00
7.917	2.03	16.000	2.03	24.083	17.00	32.17	0.00
8.000	2.03	16.083	2.03	24.167	17.00		
8.083	2.03	16.167	2.03	24.250	17.00		

Unit Hyd Qpeak (cms)= 6.374

PEAK FLOW (cms)= 14.218 (i)
 TIME TO PEAK (hrs)= 30.917
 RUNOFF VOLUME (mm)= 212.169
 TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.840

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
NASHYD (0147)	Area (ha)= 218.00	Curve Number (CN)= 86.0	
ID= 1 DT= 5.0 min	Ia (mm)= 5.00	# of Linear Res.(N)= 4.00	
	U.H. Tp(hrs)= 1.53		

Unit Hyd Qpeak (cms)= 6.757

PEAK FLOW (cms)= 21.348 (i)
 TIME TO PEAK (hrs)= 31.583
 RUNOFF VOLUME (mm)= 212.167
 TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.840

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
NASHYD (0144)	Area (ha)= 28.00	Curve Number (CN)= 86.0	
ID= 1 DT= 5.0 min	Ia (mm)= 5.00	# of Linear Res.(N)= 4.00	
	U.H. Tp(hrs)= 0.38		

Unit Hyd Qpeak (cms)= 3.494

PEAK FLOW (cms)= 3.887 (i)
 TIME TO PEAK (hrs)= 30.083
 RUNOFF VOLUME (mm)= 212.217
 TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.840

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0141) | Area (ha)= 116.00 Curve Number (CN)= 78.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 4.00

U.H. Tp(hrs)= 1.32

Unit Hyd Qpeak (cms)= 4.167

PEAK FLOW (cms)= 11.422 (i)
TIME TO PEAK (hrs)= 31.417
RUNOFF VOLUME (mm)= 192.035
TOTAL RAINFALL (mm)= 252.599
RUNOFF COEFFICIENT = 0.760

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0139) | Area (ha)= 58.00 Curve Number (CN)= 86.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 4.00

U.H. Tp(hrs)= 0.90

Unit Hyd Qpeak (cms)= 3.056

PEAK FLOW (cms)= 6.653 (i)
TIME TO PEAK (hrs)= 30.833
RUNOFF VOLUME (mm)= 212.169
TOTAL RAINFALL (mm)= 252.599
RUNOFF COEFFICIENT = 0.840

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0136) | Area (ha)= 20.00 Curve Number (CN)= 86.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 4.00

U.H. Tp(hrs)= 0.75

Unit Hyd Qpeak (cms)= 1.265

PEAK FLOW (cms)= 2.405 (i)
TIME TO PEAK (hrs)= 30.583
RUNOFF VOLUME (mm)= 212.171
TOTAL RAINFALL (mm)= 252.599
RUNOFF COEFFICIENT = 0.840

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0132) | Area (ha)= 10.00 Curve Number (CN)= 87.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00

U.H. Tp(hrs)= 0.50

Unit Hyd Qpeak (cms)= 0.764

PEAK FLOW (cms)= 1.260 (i)
TIME TO PEAK (hrs)= 30.250
RUNOFF VOLUME (mm)= 214.679
TOTAL RAINFALL (mm)= 252.599
RUNOFF COEFFICIENT = 0.850

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0129) | Area (ha)= 14.50 Curve Number (CN)= 87.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00

U.H. Tp(hrs)= 0.48

Unit Hyd Qpeak (cms)= 1.154

PEAK FLOW (cms)= 1.845 (i)
TIME TO PEAK (hrs)= 30.250
RUNOFF VOLUME (mm)= 214.677
TOTAL RAINFALL (mm)= 252.599
RUNOFF COEFFICIENT = 0.850

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0125) | Area (ha)= 105.00 Curve Number (CN)= 78.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 4.00

U.H. Tp(hrs)= 1.18

Unit Hyd Qpeak (cms)= 4.220

PEAK FLOW (cms)= 10.723 (i)
TIME TO PEAK (hrs)= 31.250
RUNOFF VOLUME (mm)= 192.036
TOTAL RAINFALL (mm)= 252.599
RUNOFF COEFFICIENT = 0.760

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.


```

| CALIB |
| NASHYD ( 0124) | Area (ha)= 77.00 Curve Number (CN)= 86.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 4.00
-----
U.H. Tp(hrs)= 1.01

```

Unit Hyd Qpeak (cms)= 3.615

PEAK FLOW (cms)= 8.588 (i)
 TIME TO PEAK (hrs)= 31.000
 RUNOFF VOLUME (mm)= 212.168
 TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.840

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0126) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0124):  77.00  8.588  31.00  212.17
+ ID2= 2 ( 0125): 105.00 10.723  31.25  192.04
=====
ID = 3 ( 0126):  182.00 19.254  31.17  200.55

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| ROUTE CHN( 0127) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
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<----- DATA FOR SECTION ( 20.0) ----->
Distance      Elevation      Manning
  0.00         197.50         0.0500
 160.00        195.00         0.0500
 175.00        194.00         0.0500
 177.00        193.60         0.0500 /0.0350 Main Channel
 178.00        193.60         0.0350 /0.0500 Main Channel
 180.00        194.00         0.0500
 195.00        195.00         0.0500
 250.00        197.50         0.0500

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<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)         (m)        (cu.m.)      (cms)          (m/s)         (min)
 0.21      193.81     .146E+03      0.1            0.35          16.44
 0.41      194.01     .439E+03      0.6            0.48          12.10
 0.62      194.22     .104E+04      1.5            0.51          11.53
 0.82      194.42     .209E+04      3.4            0.57          10.32

```

1.03	194.63	.358E+04	6.5	0.64	9.18
1.23	194.83	.551E+04	11.1	0.71	8.24
1.44	195.04	.789E+04	17.1	0.76	7.71
1.64	195.24	.113E+05	24.2	0.75	7.77
1.85	195.45	.159E+05	35.5	0.78	7.47
2.05	195.65	.218E+05	51.5	0.83	7.06
2.26	195.86	.290E+05	72.7	0.88	6.65
2.46	196.06	.375E+05	99.9	0.93	6.25
2.67	196.27	.472E+05	133.6	0.99	5.89
2.87	196.47	.582E+05	174.3	1.05	5.56
3.08	196.68	.704E+05	222.8	1.11	5.27
3.28	196.88	.839E+05	279.6	1.17	5.00
3.49	197.09	.987E+05	345.1	1.22	4.77
3.69	197.29	.115E+06	419.9	1.28	4.55
3.90	197.50	.132E+06	504.6	1.34	4.36

		AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
		(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0126)	182.00	19.25	31.17	200.55	1.50	0.76
OUTFLOW:	ID= 1 (0127)	182.00	19.12	31.27	192.40	1.49	0.76

**** WARNING : THE HYD WAS CUT TO 2000 POINTS
 **** WARNING: COMPUTATIONS FAILED TO CONVERGE.

 | ROUTE CHN(0128) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (21.0) ----->
 Distance Elevation Manning
 0.00 102.30 0.0500
 10.00 100.30 0.0500
 12.00 100.30 0.0500 /0.0350 Main Channel
 12.50 100.00 0.0350 Main Channel
 13.50 100.30 0.0350 /0.0500 Main Channel
 15.00 100.30 0.0500
 25.00 102.30 0.0500

<----- TRAVEL TIME TABLE ----->
 DEPTH ELEV VOLUME FLOW RATE VELOCITY TRAV.TIME
 (m) (m) (cu.m.) (cms) (m/s) (min)
 0.10 100.10 .625E+01 0.0 0.18 22.69
 0.20 100.20 .250E+02 0.0 0.29 14.29
 0.30 100.30 .563E+02 0.1 0.38 10.91
 0.43 100.43 .232E+03 0.4 0.38 10.95
 0.55 100.55 .447E+03 0.8 0.47 8.85
 0.68 100.68 .701E+03 1.5 0.55 7.55
 0.80 100.80 .994E+03 2.5 0.62 6.69
 0.93 100.93 .133E+04 3.6 0.69 6.06

1.05	101.05	.170E+04	5.1	0.75	5.57
1.18	101.18	.211E+04	6.8	0.80	5.19
1.30	101.30	.256E+04	8.7	0.86	4.87
1.43	101.43	.304E+04	11.0	0.91	4.60
1.55	101.55	.357E+04	13.6	0.95	4.37
1.67	101.67	.414E+04	16.5	1.00	4.17
1.80	101.80	.474E+04	19.8	1.04	3.99
1.92	101.92	.539E+04	23.4	1.09	3.83
2.05	102.05	.607E+04	27.4	1.13	3.69
2.17	102.17	.679E+04	31.8	1.17	3.56
2.30	102.30	.756E+04	36.6	1.21	3.44

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0127)	182.00	19.12	31.27	192.40	1.77	1.03
OUTFLOW: ID= 1 (0128)	182.00	19.10	31.30	191.48	1.77	1.03

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-----
| ADD HYD ( 0130)|
| 1 + 2 = 3 |
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	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0128):	182.00	19.097	31.30	191.48
+ ID2= 2 (0129):	14.50	1.845	30.25	214.68
=====				
ID = 3 (0130):	196.50	20.494	31.25	193.16

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| ROUTE CHN( 0131)|
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
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<----- DATA FOR SECTION ( 22.0) ----->

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Distance	Elevation	Manning	
0.00	102.30	0.0500	
10.00	100.30	0.0500	
12.00	100.30	0.0500 /0.0350	Main Channel
12.50	100.00	0.0350	Main Channel
13.50	100.30	0.0350 /0.0500	Main Channel
15.00	100.30	0.0500	
25.00	102.30	0.0500	

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<----- TRAVEL TIME TABLE ----->

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DEPTH	ELEV	VOLUME	FLOW RATE	VELOCITY	TRAV.TIME
(m)	(m)	(cu.m.)	(cms)	(m/s)	(min)
0.10	100.10	.130E+02	0.0	0.16	54.13

0.20	100.20	.520E+02	0.0	0.25	34.10
0.30	100.30	.117E+03	0.1	0.33	26.02
0.43	100.43	.483E+03	0.3	0.33	26.14
0.55	100.55	.930E+03	0.7	0.41	21.10
0.68	100.68	.146E+04	1.3	0.48	18.02
0.80	100.80	.207E+04	2.2	0.54	15.95
0.93	100.93	.276E+04	3.2	0.60	14.45
1.05	101.05	.353E+04	4.4	0.65	13.30
1.18	101.18	.438E+04	5.9	0.70	12.38
1.30	101.30	.532E+04	7.6	0.75	11.62
1.43	101.43	.633E+04	9.6	0.79	10.98
1.55	101.55	.743E+04	11.9	0.83	10.43
1.67	101.67	.861E+04	14.4	0.87	9.95
1.80	101.80	.987E+04	17.3	0.91	9.52
1.92	101.92	.112E+05	20.4	0.95	9.15
2.05	102.05	.126E+05	23.9	0.98	8.81
2.17	102.17	.141E+05	27.7	1.02	8.50
2.30	102.30	.157E+05	31.9	1.05	8.22

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0130)	196.50	20.49	31.25	193.16	1.93	0.95
OUTFLOW: ID= 1 (0131)	196.50	20.30	31.33	190.57	1.92	0.94

ADD HYD (0133)					
1 + 2 = 3					
	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0131):	196.50	20.305	31.33	190.57	
+ ID2= 2 (0132):	10.00	1.260	30.25	214.68	
=====					
ID = 3 (0133):	206.50	21.248	31.30	191.72	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB					
NASHYD (0096)					
ID= 1 DT= 5.0 min					

Area	(ha)=	29.00	Curve Number	(CN)=	86.0
Ia	(mm)=	5.00	# of Linear Res.(N)=		3.00
U.H. Tp	(hrs)=	0.47			
Unit Hyd Qpeak	(cms)=	2.357			
PEAK FLOW	(cms)=	3.690 (i)			
TIME TO PEAK	(hrs)=	30.167			
RUNOFF VOLUME	(mm)=	212.153			

TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.840

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB |
| NASHYD ( 0076) | Area (ha)= 27.66 Curve Number (CN)= 91.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
-----
| U.H. Tp(hrs)= 0.55
  
```

Unit Hyd Qpeak (cms)= 1.921

PEAK FLOW (cms)= 3.453 (i)
 TIME TO PEAK (hrs)= 30.333
 RUNOFF VOLUME (mm)= 224.784
 TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.890

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| CALIB |
| NASHYD ( 0075) | Area (ha)= 22.91 Curve Number (CN)= 91.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
-----
| U.H. Tp(hrs)= 0.72
  
```

Unit Hyd Qpeak (cms)= 1.215

PEAK FLOW (cms)= 2.657 (i)
 TIME TO PEAK (hrs)= 30.667
 RUNOFF VOLUME (mm)= 224.789
 TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.890

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0077) |
| 1 + 2 = 3 |
-----
| AREA QPEAK TPEAK R.V. |
| (ha) (cms) (hrs) (mm) |
| ID1= 1 ( 0075): 22.91 2.657 30.67 224.79 |
| + ID2= 2 ( 0076): 27.66 3.453 30.33 224.78 |
|=====|
| ID = 3 ( 0077): 50.57 6.052 30.42 224.79 |
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| STANDHYD ( 0078) | Area (ha)= 9.99
| ID= 1 DT= 5.0 min | Total Imp(%)= 37.00 Dir. Conn.(%)= 4.00
-----

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	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	3.70	6.29	
Dep. Storage (mm)=	1.00	1.50	
Average Slope (%)=	0.50	0.50	
Length (m)=	258.07	10.00	
Mannings n =	0.013	0.250	
Max.Eff.Inten.(mm/hr)=	53.00	80.15	
over (min)	5.00	15.00	
Storage Coeff. (min)=	7.16 (ii)	12.25 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.17	0.09	
			TOTALS
PEAK FLOW (cms)=	0.06	1.39	1.446 (iii)
TIME TO PEAK (hrs)=	30.00	30.00	30.00
RUNOFF VOLUME (mm)=	251.60	234.36	235.05
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.93	0.93

***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 90.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0079) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0077):  50.57  6.052  30.42  224.79
+ ID2= 2 ( 0078):   9.99  1.446  30.00  235.05
=====
ID = 3 ( 0079):  60.56  7.201  30.33  226.48
-----

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |

```



```

| NASHYD ( 0202) | Area (ha)= 2.14 Curve Number (CN)= 90.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
-----
U.H. Tp(hrs)= 0.28

```

Unit Hyd Qpeak (cms)= 0.292

```

PEAK FLOW (cms)= 0.304 (i)
TIME TO PEAK (hrs)= 30.000
RUNOFF VOLUME (mm)= 222.151
TOTAL RAINFALL (mm)= 252.599
RUNOFF COEFFICIENT = 0.879

```

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0228) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0202):  2.14  0.304  30.00  222.15
+ ID2= 2 ( 0079): 60.56  7.201  30.33  226.48
=====
ID = 3 ( 0228):  62.70  7.472  30.25  226.33

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0229) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00
-----

```

```

<----- DATA FOR SECTION ( 12.0) ----->
Distance      Elevation      Manning
  0.00         102.30         0.0500
 10.00         100.30         0.0500
 15.00         100.30         0.0500 /0.0350 Main Channel
 15.50         100.00         0.0350 Main Channel
 16.50         100.30         0.0350 /0.0500 Main Channel
 20.00         100.30         0.0500
 30.00         102.30         0.0500

```

```

<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)        (m)        (cu.m.)      (cms)          (m/s)        (min)
0.10      100.10      .348E+02      0.0            0.28         82.87
0.20      100.20      .139E+03      0.0            0.44         52.21
0.30      100.30      .313E+03      0.1            0.58         39.84
0.43      100.43      .216E+04      0.8            0.50         46.49
0.55      100.55      .423E+04      2.0            0.67         34.74
0.68      100.68      .651E+04      3.8            0.81         28.50

```

0.80	100.80	.901E+04	6.1	0.94	24.64
0.93	100.93	.117E+05	8.9	1.05	21.98
1.05	101.05	.147E+05	12.2	1.16	20.01
1.18	101.18	.178E+05	16.1	1.25	18.48
1.30	101.30	.212E+05	20.5	1.34	17.25
1.43	101.43	.248E+05	25.4	1.43	16.23
1.55	101.55	.286E+05	31.0	1.51	15.37
1.67	101.67	.326E+05	37.1	1.59	14.63
1.80	101.80	.368E+05	43.9	1.66	13.98
1.92	101.92	.413E+05	51.3	1.73	13.41
2.05	102.05	.460E+05	59.4	1.80	12.90
2.17	102.17	.508E+05	68.1	1.86	12.44
2.30	102.30	.560E+05	77.6	1.93	12.02

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0228)	62.70	7.47	30.25	226.33	0.86	0.99
OUTFLOW: ID= 1 (0229)	62.70	7.17	30.75	226.33	0.85	0.98

CALIB				
NASHYD (0201)	Area (ha)=	11.68	Curve Number (CN)=	91.0
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)=	3.00
	U.H. Tp(hrs)=	0.87		

Unit Hyd Qpeak (cms)= 0.513

PEAK FLOW (cms)= 1.295 (i)
 TIME TO PEAK (hrs)= 31.000
 RUNOFF VOLUME (mm)= 224.791
 TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.890

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB				
NASHYD (0204)	Area (ha)=	12.75	Curve Number (CN)=	90.0
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)=	3.00
	U.H. Tp(hrs)=	1.30		

Unit Hyd Qpeak (cms)= 0.375

PEAK FLOW (cms)= 1.240 (i)
 TIME TO PEAK (hrs)= 31.333
 RUNOFF VOLUME (mm)= 222.264
 TOTAL RAINFALL (mm)= 252.599

RUNOFF COEFFICIENT = 0.880

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0225)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0201):	11.68	1.295	31.00	224.79
+ ID2= 2 (0204):	12.75	1.240	31.33	222.26
=====				
ID = 3 (0225):	24.43	2.509	31.17	223.47

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area	Dir. Conn. (%)
STANDHYD (0200)	(ha)=	
ID= 1 DT= 5.0 min	22.56	63.00
	Total Imp(%)=	63.00

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	14.21	8.35	
Dep. Storage (mm)=	1.00	1.50	
Average Slope (%)=	0.90	2.00	
Length (m)=	387.81	40.00	
Mannings n =	0.013	0.250	
Max.Eff.Inten.(mm/hr)=	53.00	52.15	
over (min)	10.00	20.00	
Storage Coeff. (min)=	7.67 (ii)	16.82 (ii)	
Unit Hyd. Tpeak (min)=	10.00	20.00	
Unit Hyd. peak (cms)=	0.13	0.06	
			TOTALS
PEAK FLOW (cms)=	2.09	1.16	3.252 (iii)
TIME TO PEAK (hrs)=	30.00	30.00	30.00
RUNOFF VOLUME (mm)=	251.60	225.73	242.03
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.89	0.96

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 90.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0203)	Area (ha)= 4.17
ID= 1 DT= 5.0 min	Total Imp(%)= 90.00 Dir. Conn.(%)= 90.00

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	3.75	0.42	
Dep. Storage (mm)=	1.00	1.50	
Average Slope (%)=	1.37	2.00	
Length (m)=	166.73	40.00	
Mannings n =	0.013	0.250	
Max.Eff.Inten.(mm/hr)=	53.00	52.15	
over (min)	5.00	10.00	
Storage Coeff. (min)=	4.07 (ii)	7.85 (ii)	
Unit Hyd. Tpeak (min)=	5.00	10.00	
Unit Hyd. peak (cms)=	0.24	0.13	
			TOTALS
PEAK FLOW (cms)=	0.55	0.06	0.613 (iii)
TIME TO PEAK (hrs)=	29.83	30.00	29.92
RUNOFF VOLUME (mm)=	251.60	225.73	249.01
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.89	0.99

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 90.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0226)				
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0200):	22.56	3.252	30.00	242.03
+ ID2= 2 (0203):	4.17	0.613	29.92	249.01
=====				
ID = 3 (0226):	26.73	3.865	30.00	243.12

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0227)				
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0225):	24.43	2.509	31.17	223.47

```

+ ID2= 2 ( 0226):    26.73    3.865    30.00    243.12
=====
ID = 3 ( 0227):    51.16    5.614    30.00    233.74

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0184)|
| 1 + 2 = 3 |
-----
                AREA    QPEAK    TPEAK    R.V.
                (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0227):    51.16    5.614    30.00    233.74
+ ID2= 2 ( 0229):    62.70    7.170    30.75    226.33
=====
ID = 3 ( 0184):    113.86    12.437    30.92    229.65

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0230)|
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00
-----

```

```

<----- DATA FOR SECTION ( 12.0) ----->
Distance      Elevation      Manning
   0.00        102.30         0.0500
  10.00        100.30         0.0500
  15.00        100.30         0.0500 /0.0350  Main Channel
  15.50        100.00         0.0350         Main Channel
  16.50        100.30         0.0350 /0.0500  Main Channel
  20.00        100.30         0.0500
  30.00        102.30         0.0500

```

```

<----- TRAVEL TIME TABLE ----->
DEPTH    ELEV    VOLUME    FLOW RATE    VELOCITY    TRAV.TIME
(m)      (m)      (cu.m.)    (cms)        (m/s)       (min)
0.10    100.10    .318E+02    0.0          0.25        84.05
0.20    100.20    .127E+03    0.0          0.40        52.95
0.30    100.30    .286E+03    0.1          0.52        40.41
0.43    100.43    .197E+04    0.7          0.45        47.15
0.55    100.55    .386E+04    1.8          0.60        35.23
0.68    100.68    .594E+04    3.4          0.73        28.91
0.80    100.80    .822E+04    5.5          0.85        24.99
0.93    100.93    .107E+05    8.0          0.95        22.29
1.05    101.05    .134E+05    11.0         1.04        20.30
1.18    101.18    .163E+05    14.5         1.13        18.75
1.30    101.30    .193E+05    18.4         1.21        17.50
1.43    101.43    .226E+05    22.9         1.29        16.46
1.55    101.55    .261E+05    27.9         1.36        15.59
1.67    101.67    .298E+05    33.4         1.43        14.83

```

1.80	101.80	.336E+05	39.5	1.49	14.18
1.92	101.92	.377E+05	46.2	1.56	13.60
2.05	102.05	.420E+05	53.5	1.62	13.08
2.17	102.17	.464E+05	61.3	1.68	12.62
2.30	102.30	.511E+05	69.8	1.74	12.19

		<---- hydrograph ---->				<-pipe / channel->	
		AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
		(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0184)	113.86	12.44	30.92	229.65	1.10	1.08
OUTFLOW:	ID= 1 (0230)	113.86	12.29	31.00	229.65	1.09	1.07

CALIB							
NASHYD (0206)							
ID= 1 DT= 5.0 min							

Area	(ha)=	9.38	Curve Number	(CN)=	92.0		
Ia	(mm)=	5.00	# of Linear Res.(N)=	3.00			
U.H. Tp	(hrs)=	0.92					

Unit Hyd Qpeak (cms)= 0.389

PEAK FLOW (cms)= 1.029 (i)
 TIME TO PEAK (hrs)= 31.083
 RUNOFF VOLUME (mm)= 227.320
 TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.900

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB							
STANDHYD (0207)							
ID= 1 DT= 5.0 min							

Area	(ha)=	27.53	Dir. Conn.(%)=	57.00			
Total Imp	(%)=	72.00					

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	19.82	7.71
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.51	2.00
Length	(m)=	428.41	40.00
Mannings n	=	0.013	0.250

Max.Eff.Inten.(mm/hr)=	53.00	80.78
over (min)	10.00	20.00
Storage Coeff. (min)=	9.65 (ii)	17.34 (ii)
Unit Hyd. Tpeak (min)=	10.00	20.00
Unit Hyd. peak (cms)=	0.11	0.06

TOTALS
 PEAK FLOW (cms)= 2.31 1.66 3.962 (iii)
 TIME TO PEAK (hrs)= 30.00 30.00 30.00

RUNOFF VOLUME	(mm)=	251.60	234.49	244.24
TOTAL RAINFALL	(mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT	=	1.00	0.93	0.97

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 90.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0231)					
1 + 2 = 3					
		AREA	QPEAK	TPEAK	R.V.
		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0206):		9.38	1.029	31.08	227.32
+ ID2= 2 (0207):		27.53	3.962	30.00	244.24
=====					
ID = 3 (0231):		36.91	4.708	30.00	239.94

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
NASHYD (0205)		Area	(ha)= 11.24	Curve Number (CN)= 90.0
ID= 1 DT= 5.0 min		Ia	(mm)= 5.00	# of Linear Res.(N)= 3.00
		U.H. Tp(hrs)=	1.00	

Unit Hyd Qpeak (cms)= 0.429

PEAK FLOW (cms)= 1.196 (i)
 TIME TO PEAK (hrs)= 31.167
 RUNOFF VOLUME (mm)= 222.264
 TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.880

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0232)					
1 + 2 = 3					
		AREA	QPEAK	TPEAK	R.V.
		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0205):		11.24	1.196	31.17	222.26
+ ID2= 2 (0231):		36.91	4.708	30.00	239.94
=====					
ID = 3 (0232):		48.15	5.539	30.00	235.82

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0185)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0230):	113.86	12.287	31.00	229.65
+ ID2= 2 (0232):	48.15	5.539	30.00	235.82
ID = 3 (0185):	162.01	17.430	31.00	231.48

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB STANDHYD (0083)	Area (ha)=	Total Imp(%)=	Dir. Conn.(%)=
ID= 1 DT= 5.0 min	16.00	43.00	43.00

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	6.88	9.12	
Dep. Storage (mm)=	1.50	1.50	
Average Slope (%)=	0.50	2.00	
Length (m)=	337.00	337.00	
Mannings n =	0.015	0.200	
Max.Eff.Inten.(mm/hr)=	53.00	51.25	
over (min)	10.00	40.00	
Storage Coeff. (min)=	9.16 (ii)	38.13 (ii)	
Unit Hyd. Tpeak (min)=	10.00	40.00	
Unit Hyd. peak (cms)=	0.12	0.03	
			TOTALS
PEAK FLOW (cms)=	1.01	1.05	1.949 (iii)
TIME TO PEAK (hrs)=	30.00	30.42	30.00
RUNOFF VOLUME (mm)=	251.10	215.59	230.86
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	0.99	0.85	0.91

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ROUTE CHN(0084)|

| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (10.0) ----->

Distance	Elevation	Manning	
0.00	197.50	0.0500	
160.00	195.00	0.0500	
175.00	194.00	0.0500	
177.00	193.60	0.0500 /0.0350	Main Channel
178.00	193.60	0.0350 /0.0500	Main Channel
180.00	194.00	0.0500	
195.00	195.00	0.0500	
250.00	197.50	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.21	193.81	.873E+03	0.1	0.35	98.61
0.41	194.01	.263E+04	0.6	0.48	72.59
0.62	194.22	.625E+04	1.5	0.51	69.17
0.82	194.42	.125E+05	3.4	0.57	61.93
1.03	194.63	.215E+05	6.5	0.64	55.09
1.23	194.83	.330E+05	11.1	0.71	49.43
1.44	195.04	.473E+05	17.1	0.76	46.24
1.64	195.24	.676E+05	24.2	0.75	46.63
1.85	195.45	.955E+05	35.5	0.78	44.82
2.05	195.65	.131E+06	51.5	0.83	42.39
2.26	195.86	.174E+06	72.7	0.88	39.88
2.46	196.06	.225E+06	99.9	0.93	37.50
2.67	196.27	.283E+06	133.6	0.99	35.32
2.87	196.47	.349E+06	174.3	1.05	33.35
3.08	196.68	.422E+06	222.8	1.11	31.59
3.28	196.88	.504E+06	279.6	1.17	30.02
3.49	197.09	.592E+06	345.1	1.22	28.60
3.69	197.29	.689E+06	419.9	1.28	27.33
3.90	197.50	.793E+06	504.6	1.34	26.18

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0083)	16.00	1.95	30.00	230.86	0.66	0.52
OUTFLOW: ID= 1 (0084)	16.00	1.54	31.08	211.35	0.62	0.51

**** WARNING : THE HYD WAS CUT TO 2000 POINTS

ADD HYD (0085)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0185):	162.01	17.430	31.00	231.48

```

+ ID2= 2 ( 0084):    16.00   1.538   31.08   211.35
=====
ID = 3 ( 0085):    178.01  18.964   31.00   221.95

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| STANDHYD ( 0086) | Area (ha)= 130.00
| ID= 1 DT= 5.0 min | Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00
-----

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		IMPERVIOUS	PERVIOUS (i)	
Surface Area	(ha)=	97.50	32.50	
Dep. Storage	(mm)=	1.50	1.50	
Average Slope	(%)=	0.50	2.00	
Length	(m)=	930.95	927.00	
Mannings n	=	0.015	0.200	
Max.Eff.Inten.(mm/hr)=		53.00	51.05	
over (min)		15.00	75.00	
Storage Coeff. (min)=		16.85 (ii)	70.10 (ii)	
Unit Hyd. Tpeak (min)=		15.00	75.00	
Unit Hyd. peak (cms)=		0.07	0.02	
				TOTALS
PEAK FLOW	(cms)=	13.91	3.20	15.926 (iii)
TIME TO PEAK	(hrs)=	30.00	31.17	30.00
RUNOFF VOLUME	(mm)=	251.10	215.59	242.22
TOTAL RAINFALL	(mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT	=	0.99	0.85	0.96

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ROUTE CHN( 0088) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
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<----- DATA FOR SECTION ( 11.0) ----->
Distance      Elevation      Manning
   0.00        197.50        0.0500
  160.00        195.00        0.0500
  175.00        194.00        0.0500
  177.00        193.60        0.0500 /0.0350 Main Channel
  178.00        193.60        0.0350 /0.0500 Main Channel
  180.00        194.00        0.0500

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195.00	195.00	0.0500
250.00	197.50	0.0500

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.21	193.81	.374E+03	0.1	0.35	42.26
0.41	194.01	.113E+04	0.6	0.48	31.11
0.62	194.22	.268E+04	1.5	0.51	29.65
0.82	194.42	.537E+04	3.4	0.57	26.54
1.03	194.63	.919E+04	6.5	0.64	23.61
1.23	194.83	.142E+05	11.1	0.71	21.18
1.44	195.04	.203E+05	17.1	0.76	19.82
1.64	195.24	.290E+05	24.2	0.75	19.98
1.85	195.45	.409E+05	35.5	0.78	19.21
2.05	195.65	.561E+05	51.5	0.83	18.17
2.26	195.86	.746E+05	72.7	0.88	17.09
2.46	196.06	.963E+05	99.9	0.93	16.07
2.67	196.27	.121E+06	133.6	0.99	15.14
2.87	196.47	.150E+06	174.3	1.05	14.29
3.08	196.68	.181E+06	222.8	1.11	13.54
3.28	196.88	.216E+06	279.6	1.17	12.86
3.49	197.09	.254E+06	345.1	1.22	12.26
3.69	197.29	.295E+06	419.9	1.28	11.71
3.90	197.50	.340E+06	504.6	1.34	11.22

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0086)	130.00	15.93	30.00	242.22	1.40	0.75
OUTFLOW: ID= 1 (0088)	130.00	14.68	30.22	235.14	1.35	0.74

***** WARNING : THE HYD WAS CUT TO 2000 POINTS

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0085):	178.01	18.964	31.00	221.95
+ ID2= 2 (0088):	130.00	14.682	30.22	235.14
=====				
ID = 3 (0089):	308.01	32.796	31.00	227.52

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)=
STANDHYD (0090)	24.00

| ID= 1 DT= 5.0 min | Total Imp(%)= 43.00 Dir. Conn.(%)= 43.00

		IMPERVIOUS	PERVIOUS (i)	
Surface Area	(ha)=	10.32	13.68	
Dep. Storage	(mm)=	1.50	1.50	
Average Slope	(%)=	0.50	2.00	
Length	(m)=	400.00	400.00	
Mannings n	=	0.015	0.200	
Max.Eff.Inten.(mm/hr)=		53.00	51.22	
over (min)		10.00	45.00	
Storage Coeff. (min)=		10.15 (ii)	42.27 (ii)	
Unit Hyd. Tpeak (min)=		10.00	45.00	
Unit Hyd. peak (cms)=		0.11	0.03	
				TOTALS
PEAK FLOW (cms)=		1.52	1.54	2.824 (iii)
TIME TO PEAK (hrs)=		30.00	30.58	30.00
RUNOFF VOLUME (mm)=		251.10	215.59	230.86
TOTAL RAINFALL (mm)=		252.60	252.60	252.60
RUNOFF COEFFICIENT =		0.99	0.85	0.91

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0091)					
1 + 2 = 3					
		AREA	QPEAK	TPEAK	R.V.
		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0089):		308.01	32.796	31.00	227.52
+ ID2= 2 (0090):		24.00	2.824	30.00	230.86
=====					
ID = 3 (0091):		332.01	35.381	30.92	227.61

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ROUTE CHN(0092) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (12.0) ----->			
Distance	Elevation	Manning	
0.00	102.30	0.0500	
10.00	100.30	0.0500	
15.00	100.30	0.0500 /0.0350	Main Channel

15.50	100.00	0.0350	Main Channel
16.50	100.30	0.0350 /0.0500	Main Channel
20.00	100.30	0.0500	
30.00	102.30	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.125E+02	0.0	0.18	45.37
0.20	100.20	.500E+02	0.0	0.29	28.58
0.30	100.30	.113E+03	0.1	0.38	21.81
0.43	100.43	.777E+03	0.5	0.33	25.45
0.55	100.55	.152E+04	1.3	0.44	19.02
0.68	100.68	.234E+04	2.5	0.53	15.61
0.80	100.80	.324E+04	4.0	0.62	13.49
0.93	100.93	.421E+04	5.8	0.69	12.03
1.05	101.05	.527E+04	8.0	0.76	10.96
1.18	101.18	.640E+04	10.5	0.82	10.12
1.30	101.30	.761E+04	13.4	0.88	9.44
1.43	101.43	.890E+04	16.7	0.94	8.89
1.55	101.55	.103E+05	20.3	0.99	8.41
1.67	101.67	.117E+05	24.4	1.04	8.01
1.80	101.80	.132E+05	28.8	1.09	7.65
1.92	101.92	.148E+05	33.7	1.14	7.34
2.05	102.05	.165E+05	39.0	1.18	7.06
2.17	102.17	.183E+05	44.7	1.22	6.81
2.30	102.30	.201E+05	50.9	1.27	6.58

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0091)	332.01	35.38	30.92	227.61	1.96	1.15
OUTFLOW: ID= 1 (0092)	332.01	35.36	31.00	226.10	1.96	1.15

| ROUTE CHN(0093) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (13.0) ----->

Distance	Elevation	Manning	
0.00	102.30	0.0500	
10.00	100.30	0.0500	
39.25	100.30	0.0500 /0.0350	Main Channel
40.00	100.00	0.0350	Main Channel
40.75	100.30	0.0350 /0.0500	Main Channel
70.00	100.30	0.0500	
80.00	102.30	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.138E+02	0.0	0.18	49.67
0.20	100.20	.550E+02	0.0	0.29	31.29
0.30	100.30	.124E+03	0.1	0.38	23.94
0.43	100.43	.429E+04	2.1	0.27	34.53
0.55	100.55	.855E+04	6.3	0.40	22.65
0.68	100.68	.129E+05	12.2	0.52	17.57
0.80	100.80	.173E+05	19.7	0.63	14.66
0.93	100.93	.218E+05	28.5	0.72	12.74
1.05	101.05	.264E+05	38.7	0.81	11.37
1.18	101.18	.311E+05	50.2	0.89	10.33
1.30	101.30	.359E+05	62.8	0.96	9.52
1.43	101.43	.407E+05	76.7	1.04	8.85
1.55	101.55	.457E+05	91.7	1.10	8.30
1.67	101.67	.507E+05	107.8	1.17	7.83
1.80	101.80	.558E+05	125.1	1.23	7.43
1.92	101.92	.610E+05	143.5	1.29	7.09
2.05	102.05	.663E+05	163.0	1.35	6.78
2.17	102.17	.717E+05	183.6	1.41	6.51
2.30	102.30	.771E+05	205.2	1.46	6.26

		<----- hydrograph ----->				<-pipe / channel->	
		AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
		(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0092)	332.01	35.36	31.00	226.10	1.01	0.78
OUTFLOW:	ID= 1 (0093)	332.01	35.28	31.02	222.71	1.01	0.77

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| CALIB |
| NASHYD ( 0208) | Area (ha)= 10.23 Curve Number (CN)= 91.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
-----
| U.H. Tp(hrs)= 1.00

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Unit Hyd Qpeak (cms)= 0.391

PEAK FLOW (cms)= 1.093 (i)

TIME TO PEAK (hrs)= 31.083

RUNOFF VOLUME (mm)= 224.791

TOTAL RAINFALL (mm)= 252.599

RUNOFF COEFFICIENT = 0.890

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB |
| STANDHYD ( 0209) | Area (ha)= 15.74
| ID= 1 DT= 5.0 min | Total Imp(%)= 50.00 Dir. Conn.(%)= 50.00

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		IMPERVIOUS	PERVIOUS (i)	
Surface Area	(ha)=	7.87	7.87	
Dep. Storage	(mm)=	1.00	1.50	
Average Slope	(%)=	0.63	0.63	
Length	(m)=	323.93	335.00	
Mannings n	=	0.013	0.400	
Max.Eff.Inten.(mm/hr)=		53.00	51.01	
over (min)		10.00	70.00	
Storage Coeff. (min)=		7.66 (ii)	69.66 (ii)	
Unit Hyd. Tpeak (min)=		10.00	70.00	
Unit Hyd. peak (cms)=		0.13	0.02	
				TOTALS
PEAK FLOW	(cms)=	1.16	0.78	1.666 (iii)
TIME TO PEAK	(hrs)=	30.00	31.08	30.00
RUNOFF VOLUME	(mm)=	251.60	215.59	233.60
TOTAL RAINFALL	(mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT	=	1.00	0.85	0.92

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ROUTE CHN(0233) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 5.00

<----- DATA FOR SECTION (15.0) ----->

Distance	Elevation	Manning	
0.00	102.30	0.0500	
10.00	100.30	0.0500	
15.00	100.30	0.0500 / 0.0350	Main Channel
15.50	100.00	0.0350	Main Channel
16.50	100.30	0.0350 / 0.0500	Main Channel
20.00	100.30	0.0500	
30.00	102.30	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.277E+02	0.0	0.19	96.57
0.20	100.20	.111E+03	0.0	0.30	60.84
0.30	100.30	.249E+03	0.1	0.40	46.43
0.43	100.43	.172E+04	0.5	0.34	54.18
0.55	100.55	.336E+04	1.4	0.46	40.48
0.68	100.68	.517E+04	2.6	0.55	33.22

0.80	100.80	.716E+04	4.2	0.64	28.72
0.93	100.93	.932E+04	6.1	0.72	25.62
1.05	101.05	.117E+05	8.3	0.79	23.32
1.18	101.18	.142E+05	11.0	0.86	21.54
1.30	101.30	.168E+05	14.0	0.92	20.10
1.43	101.43	.197E+05	17.4	0.97	18.91
1.55	101.55	.227E+05	21.1	1.03	17.91
1.67	101.67	.259E+05	25.3	1.08	17.04
1.80	101.80	.293E+05	30.0	1.13	16.29
1.92	101.92	.328E+05	35.0	1.18	15.62
2.05	102.05	.365E+05	40.5	1.23	15.03
2.17	102.17	.404E+05	46.5	1.27	14.50
2.30	102.30	.445E+05	52.9	1.32	14.01

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0209)	15.74	1.67	30.00	233.60	0.58	0.48
OUTFLOW: ID= 1 (0233)	15.74	1.54	31.00	233.56	0.56	0.47

ADD HYD (0234)					
1 + 2 = 3					
	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0208):	10.23	1.093	31.08	224.79	
+ ID2= 2 (0233):	15.74	1.539	31.00	233.56	
=====					
ID = 3 (0234):	25.97	2.627	31.08	230.11	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0095)					
1 + 2 = 3					
	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0234):	25.97	2.627	31.08	230.11	
+ ID2= 2 (0093):	332.01	35.280	31.02	222.71	
=====					
ID = 3 (0095):	357.98	37.907	31.02	222.22	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0097) |

1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0095):	357.98	37.907	31.02	222.22
+ ID2= 2 (0096):	29.00	3.690	30.17	212.15
=====				
ID = 3 (0097):	386.98	41.068	31.00	221.45

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | ROUTE CHN(0098)|
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (14.0) ----->

Distance	Elevation	Manning	
0.00	197.50	0.0500	
160.00	195.00	0.0500	
175.00	194.00	0.0500	
177.00	193.60	0.0500 /0.0350	Main Channel
178.00	193.60	0.0350 /0.0500	Main Channel
180.00	194.00	0.0500	
195.00	195.00	0.0500	
250.00	197.50	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.21	193.81	.561E+03	0.1	0.35	63.39
0.41	194.01	.169E+04	0.6	0.48	46.67
0.62	194.22	.402E+04	1.5	0.51	44.47
0.82	194.42	.805E+04	3.4	0.57	39.81
1.03	194.63	.138E+05	6.5	0.64	35.42
1.23	194.83	.212E+05	11.1	0.71	31.78
1.44	195.04	.304E+05	17.1	0.76	29.72
1.64	195.24	.435E+05	24.2	0.75	29.98
1.85	195.45	.614E+05	35.5	0.78	28.81
2.05	195.65	.842E+05	51.5	0.83	27.25
2.26	195.86	.112E+06	72.7	0.88	25.64
2.46	196.06	.144E+06	99.9	0.93	24.10
2.67	196.27	.182E+06	133.6	0.99	22.70
2.87	196.47	.224E+06	174.3	1.05	21.44
3.08	196.68	.272E+06	222.8	1.11	20.31
3.28	196.88	.324E+06	279.6	1.17	19.30
3.49	197.09	.381E+06	345.1	1.22	18.39
3.69	197.29	.443E+06	419.9	1.28	17.57
3.90	197.50	.510E+06	504.6	1.34	16.83

<----- hydrograph -----> <-pipe / channel->

AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
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INFLOW : ID= 2 (0097) 386.98 41.07 31.00 221.45 1.92 0.80
 OUTFLOW: ID= 1 (0098) 386.98 39.24 31.20 213.90 1.90 0.79

 | ROUTE CHN(0099) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (15.0) ----->
 Distance Elevation Manning
 0.00 102.30 0.0500
 10.00 100.30 0.0500
 15.00 100.30 0.0500 /0.0350 Main Channel
 15.50 100.00 0.0350 Main Channel
 16.50 100.30 0.0350 /0.0500 Main Channel
 20.00 100.30 0.0500
 30.00 102.30 0.0500

<----- TRAVEL TIME TABLE ----->
 DEPTH ELEV VOLUME FLOW RATE VELOCITY TRAV.TIME
 (m) (m) (cu.m.) (cms) (m/s) (min)
 0.10 100.10 .150E+02 0.0 0.18 54.45
 0.20 100.20 .600E+02 0.0 0.29 34.30
 0.30 100.30 .135E+03 0.1 0.38 26.17
 0.43 100.43 .932E+03 0.5 0.33 30.54
 0.55 100.55 .182E+04 1.3 0.44 22.82
 0.68 100.68 .281E+04 2.5 0.53 18.73
 0.80 100.80 .389E+04 4.0 0.62 16.19
 0.93 100.93 .506E+04 5.8 0.69 14.44
 1.05 101.05 .632E+04 8.0 0.76 13.15
 1.18 101.18 .768E+04 10.5 0.82 12.14
 1.30 101.30 .913E+04 13.4 0.88 11.33
 1.43 101.43 .107E+05 16.7 0.94 10.66
 1.55 101.55 .123E+05 20.3 0.99 10.10
 1.67 101.67 .141E+05 24.4 1.04 9.61
 1.80 101.80 .159E+05 28.8 1.09 9.18
 1.92 101.92 .178E+05 33.7 1.14 8.81
 2.05 102.05 .198E+05 39.0 1.18 8.47
 2.17 102.17 .219E+05 44.7 1.22 8.17
 2.30 102.30 .241E+05 50.9 1.27 7.90

<----- hydrograph -----> <-pipe / channel->
 AREA QPEAK TPEAK R.V. MAX DEPTH MAX VEL
 (ha) (cms) (hrs) (mm) (m) (m/s)
 INFLOW : ID= 2 (0098) 386.98 39.24 31.20 213.90 2.06 1.18
 OUTFLOW: ID= 1 (0099) 386.98 38.96 31.30 211.06 2.05 1.18

CALIB		
NASHYD (0213)	Area (ha)= 27.14	Curve Number (CN)= 90.0
ID= 1 DT= 5.0 min	Ia (mm)= 5.00	# of Linear Res.(N)= 3.00
-----	U.H. Tp(hrs)= 1.39	

Unit Hyd Qpeak (cms)= 0.746

PEAK FLOW (cms)= 2.570 (i)
 TIME TO PEAK (hrs)= 31.417
 RUNOFF VOLUME (mm)= 222.264
 TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.880

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0101)				
1 + 2 = 3				
-----	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0213):	27.14	2.570	31.42	222.26
+ ID2= 2 (0099):	386.98	38.960	31.30	211.06
=====				
ID = 3 (0101):	414.12	41.516	31.30	210.48

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB		
STANDHYD (0102)	Area (ha)= 40.00	
ID= 1 DT= 5.0 min	Total Imp(%)= 43.00	Dir. Conn.(%)= 43.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	17.20		22.80
Dep. Storage (mm)=	1.50		1.50
Average Slope (%)=	0.50		2.00
Length (m)=	516.40		516.00
Mannings n =	0.015		0.200

Max.Eff.Inten.(mm/hr)=	53.00	51.18
over (min)	10.00	50.00
Storage Coeff. (min)=	11.83 (ii)	49.26 (ii)
Unit Hyd. Tpeak (min)=	10.00	50.00
Unit Hyd. peak (cms)=	0.10	0.02

			TOTALS
PEAK FLOW (cms)=	2.52	2.47	4.516 (iii)
TIME TO PEAK (hrs)=	30.00	30.67	30.08
RUNOFF VOLUME (mm)=	251.10	215.59	230.86
TOTAL RAINFALL (mm)=	252.60	252.60	252.60

RUNOFF COEFFICIENT = 0.99 0.85 0.91

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0103)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0101):	414.12	41.516	31.30	210.48
+ ID2= 2 (0102):	40.00	4.516	30.08	230.86
=====				
ID = 3 (0103):	454.12	44.975	31.20	211.99

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area	(ha)=	3.11	Curve Number	(CN)= 90.0
NASHYD (0214)	Ia	(mm)=	5.00	# of Linear Res.(N)=	3.00
ID= 1 DT= 5.0 min	U.H. Tp	(hrs)=	0.52		

Unit Hyd Qpeak (cms)= 0.228

PEAK FLOW (cms)= 0.393 (i)
TIME TO PEAK (hrs)= 30.250
RUNOFF VOLUME (mm)= 222.254
TOTAL RAINFALL (mm)= 252.599
RUNOFF COEFFICIENT = 0.880

- (i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0235)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0103):	454.12	44.975	31.20	211.99
+ ID2= 2 (0214):	3.11	0.393	30.25	222.25
=====				
ID = 3 (0235):	457.23	45.313	31.08	212.05

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB			
NASHYD (0281)	Area (ha)=	4.33	Curve Number (CN)= 73.0
ID= 1 DT= 5.0 min	Ia (mm)=	8.00	# of Linear Res.(N)= 2.00
	U.H. Tp(hrs)=	0.80	

Unit Hyd Qpeak (cms)= 0.140

PEAK FLOW (cms)= 0.387 (i)

TIME TO PEAK (hrs)= 31.083

RUNOFF VOLUME (mm)= 176.563

TOTAL RAINFALL (mm)= 252.599

RUNOFF COEFFICIENT = 0.699

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
NASHYD (0287)	Area (ha)=	9.66	Curve Number (CN)= 73.0
ID= 1 DT= 5.0 min	Ia (mm)=	8.00	# of Linear Res.(N)= 2.00
	U.H. Tp(hrs)=	2.00	

Unit Hyd Qpeak (cms)= 0.125

PEAK FLOW (cms)= 0.569 (i)

TIME TO PEAK (hrs)= 32.000

RUNOFF VOLUME (mm)= 176.697

TOTAL RAINFALL (mm)= 252.599

RUNOFF COEFFICIENT = 0.700

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
NASHYD (0342)	Area (ha)=	23.73	Curve Number (CN)= 73.0
ID= 1 DT= 5.0 min	Ia (mm)=	8.00	# of Linear Res.(N)= 2.00
	U.H. Tp(hrs)=	0.90	

Unit Hyd Qpeak (cms)= 0.684

PEAK FLOW (cms)= 2.028 (i)

TIME TO PEAK (hrs)= 31.083

RUNOFF VOLUME (mm)= 176.597

TOTAL RAINFALL (mm)= 252.599

RUNOFF COEFFICIENT = 0.699

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB |
| STANDHYD ( 0324) | Area (ha)= 9.99
| ID= 1 DT= 5.0 min | Total Imp(%)= 21.20 Dir. Conn.(%)= 2.00
-----

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		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	2.12	7.87
Dep. Storage	(mm)=	1.00	4.00
Average Slope	(%)=	0.50	0.50
Length	(m)=	400.00	10.00
Mannings n	=	0.013	0.250

Max.Eff.Inten.(mm/hr)=		53.00	60.73
over (min)		10.00	15.00
Storage Coeff. (min)=		9.31 (ii)	15.00 (ii)
Unit Hyd. Tpeak (min)=		10.00	15.00
Unit Hyd. peak (cms)=		0.12	0.08

TOTALS

PEAK FLOW (cms)=	0.03	1.29	1.317 (iii)
TIME TO PEAK (hrs)=	30.00	30.00	30.00
RUNOFF VOLUME (mm)=	251.60	191.40	192.61
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.76	0.76

***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| CALIB |
| STANDHYD ( 0330) | Area (ha)= 45.47
| ID= 1 DT= 5.0 min | Total Imp(%)= 67.00 Dir. Conn.(%)= 53.00
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		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	30.46	15.01
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	1.00	2.00
Length	(m)=	550.58	10.00
Mannings n	=	0.013	0.250

Max.Eff.Inten.(mm/hr)=		53.00	72.61
over (min)		10.00	15.00
Storage Coeff. (min)=		9.16 (ii)	12.44 (ii)

Unit Hyd. Tpeak (min)=	10.00	15.00	
Unit Hyd. peak (cms)=	0.12	0.08	
			TOTALS
PEAK FLOW (cms)=	3.54	2.98	6.526 (iii)
TIME TO PEAK (hrs)=	30.00	30.00	30.00
RUNOFF VOLUME (mm)=	251.60	211.66	232.83
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.84	0.92

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0318)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0324):	9.99	1.317	30.00	192.61
+ ID2= 2 (0330):	45.47	6.526	30.00	232.83
=====				
ID = 3 (0318):	55.46	7.843	30.00	225.58

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0327)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0318):	55.46	7.843	30.00	225.58
+ ID2= 2 (0342):	23.73	2.028	31.08	176.60
=====				
ID = 3 (0327):	79.19	9.328	30.00	210.90

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
STANDHYD (0319)	Area (ha)=	3.25		
ID= 1 DT= 5.0 min	Total Imp(%)=	85.00	Dir. Conn.(%)=	85.00
	IMPERVIOUS		PERVIOUS (i)	
Surface Area (ha)=	2.76		0.49	
Dep. Storage (mm)=	0.00		1.50	

Average Slope	(%)=	0.50	0.50	
Length	(m)=	147.20	61.00	
Mannings n	=	0.013	0.250	
Max.Eff.Inten.(mm/hr)=		53.00	49.38	
over (min)		5.00	25.00	
Storage Coeff. (min)=		5.11 (ii)	23.39 (ii)	
Unit Hyd. Tpeak (min)=		5.00	25.00	
Unit Hyd. peak (cms)=		0.21	0.05	
				TOTALS
PEAK FLOW (cms)=		0.41	0.06	0.466 (iii)
TIME TO PEAK (hrs)=		29.92	30.17	30.00
RUNOFF VOLUME (mm)=		252.60	197.89	244.39
TOTAL RAINFALL (mm)=		252.60	252.60	252.60
RUNOFF COEFFICIENT =		1.00	0.78	0.97

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0288) |
| 1 + 2 = 3 |
-----

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	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0319):	3.25	0.466	30.00	244.39
+ ID2= 2 (0327):	79.19	9.328	30.00	210.90
=====				
ID = 3 (0288):	82.44	9.795	30.00	212.22

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| RESERVOIR( 0339) |
| IN= 2---> OUT= 1 |
| DT= 5.0 min |
-----

```

OUTFLOW	STORAGE	OUTFLOW	STORAGE
(cms)	(ha.m.)	(cms)	(ha.m.)
0.0000	0.0000	1.2660	0.2040
0.0190	0.0115	1.5380	0.2350
0.0640	0.0250	1.8410	0.2680
0.1300	0.0405	2.1760	0.3030
0.2180	0.0579	2.5440	0.3400
0.3290	0.0773	2.9470	0.3790
0.4640	0.0986	3.3860	0.4200
0.6240	0.1220	3.8620	0.4630
0.8100	0.1470	4.3750	0.5080

1.0240 0.1740 | 4.9270 0.5550

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0288)	82.440	9.795	30.00	212.22
OUTFLOW: ID= 1 (0339)	82.440	9.317	30.08	212.22

PEAK FLOW REDUCTION [Qout/Qin](%)= 95.12
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.9322

| ADD HYD (0272) |
| 1 + 2 = 3 |

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0287):	9.66	0.569	32.00	176.70
+ ID2= 2 (0339):	82.44	9.317	30.08	212.22
=====				
ID = 3 (0272):	92.10	9.706	30.17	208.50

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB
| NASHYD (0335) |
| ID= 1 DT= 5.0 min |

Area (ha)= 32.76 Curve Number (CN)= 73.0
Ia (mm)= 8.00 # of Linear Res.(N)= 2.00
U.H. Tp(hrs)= 1.40

Unit Hyd Qpeak (cms)= 0.607

PEAK FLOW (cms)= 2.307 (i)
TIME TO PEAK (hrs)= 31.500
RUNOFF VOLUME (mm)= 176.671
TOTAL RAINFALL (mm)= 252.599
RUNOFF COEFFICIENT = 0.699

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB
| STANDHYD (0283) |
| ID= 1 DT= 5.0 min |

Area (ha)= 18.11
Total Imp(%)= 67.00 Dir. Conn.(%)= 53.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	12.13	5.98
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	0.50

Length	(m)=	347.47	10.00	
Mannings n	=	0.013	0.250	
Max.Eff.Inten.(mm/hr)=		53.00	72.61	
over (min)		10.00	15.00	
Storage Coeff. (min)=		8.56 (ii)	13.53 (ii)	
Unit Hyd. Tpeak (min)=		10.00	15.00	
Unit Hyd. peak (cms)=		0.12	0.08	
				TOTALS
PEAK FLOW (cms)=		1.41	1.18	2.595 (iii)
TIME TO PEAK (hrs)=		30.00	30.00	30.00
RUNOFF VOLUME (mm)=		251.60	211.66	232.83
TOTAL RAINFALL (mm)=		252.60	252.60	252.60
RUNOFF COEFFICIENT =		1.00	0.84	0.92

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0299) |
| 1 + 2 = 3 |
-----
|          AREA   QPEAK   TPEAK   R.V.
|          (ha)   (cms)   (hrs)   (mm)
| ID1= 1 ( 0283): 18.11  2.595  30.00  232.83
| + ID2= 2 ( 0335): 32.76  2.307  31.50  176.67
|=====
| ID = 3 ( 0299):  50.87  4.162  30.00  196.66

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB
| STANDHYD ( 0279) |
| ID= 1 DT= 5.0 min |
-----
| Area (ha)= 5.88
| Total Imp(%)= 46.10  Dir. Conn.(%)= 5.00

```

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	2.71	3.17
Dep. Storage	(mm)=	1.00	4.00
Average Slope	(%)=	0.50	0.50
Length	(m)=	250.00	10.00
Mannings n	=	0.013	0.250
Max.Eff.Inten.(mm/hr)=		53.00	89.09
over (min)		5.00	15.00
Storage Coeff. (min)=		7.03 (ii)	11.90 (ii)

Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.17	0.09	
			TOTALS
PEAK FLOW (cms)=	0.04	0.77	0.817 (iii)
TIME TO PEAK (hrs)=	30.00	30.00	30.00
RUNOFF VOLUME (mm)=	251.60	206.38	208.64
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.82	0.83

***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0289) |
| 1 + 2 = 3 |
-----

```

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0279):	5.88	0.817	30.00	208.64
+ ID2= 2 (0299):	50.87	4.162	30.00	196.66
=====				
ID = 3 (0289):	56.75	4.979	30.00	197.90

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| STANDHYD ( 0317) |
| ID= 1 DT= 5.0 min |
-----

```

Area (ha)=	3.37		
Total Imp(%)=	23.00	Dir. Conn.(%)=	23.00

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	0.78	2.59	
Dep. Storage (mm)=	1.00	4.00	
Average Slope (%)=	0.50	0.50	
Length (m)=	149.89	150.00	
Mannings n =	0.013	0.250	
Max.Eff.Inten.(mm/hr)=	53.00	46.84	
over (min)	5.00	40.00	
Storage Coeff. (min)=	5.17 (ii)	37.19 (ii)	
Unit Hyd. Tpeak (min)=	5.00	40.00	
Unit Hyd. peak (cms)=	0.21	0.03	
			TOTALS
PEAK FLOW (cms)=	0.11	0.27	0.357 (iii)

TIME TO PEAK	(hrs)=	29.92	30.50	30.50
RUNOFF VOLUME	(mm)=	251.60	180.42	196.78
TOTAL RAINFALL	(mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT	=	1.00	0.71	0.78

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0278) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0289):  56.75  4.979  30.00  197.90
+ ID2= 2 ( 0317):   3.37  0.357  30.50  196.78
=====
ID = 3 ( 0278):  60.12  5.336  30.00  197.84

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| DIVERTHYD( 0329) |
| IN= 1 # OUT= 5 |
-----

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Outflow / Inflow Relationships

Flow 1	+	Flow 2	+	Flow 3	+	Flow 4	+	Flow 5	=	Total
(cms)		(cms)		(cms)		(cms)		(cms)		(cms)
0.00		0.00		0.00		0.00		0.00		0.00
0.48		0.00		0.00		0.00		0.00		0.48
0.48		0.01		0.00		0.00		0.00		0.49
0.48		50.00		0.00		0.00		0.00		50.48

		AREA	QPEAK	TPEAK	R.V.
		(ha)	(cms)	(hrs)	(mm)
TOTAL HYD.(ID= 1):		60.12	5.34	30.00	197.84
=====					
ID= 2 (2)	:	19.50	0.48	30.00	197.84
ID= 3 (2)	:	40.62	4.85	30.00	197.84
ID= 4 (2)	:	0.00	0.00	0.00	0.00
ID= 5 (2)	:	0.00	0.00	0.00	0.00
ID= 6 (2)	:	0.00	0.00	0.00	0.00

```

| ADD HYD ( 0286) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0272):  92.10  9.706   30.17  208.50
+ ID2= 2 ( 0281):   4.33  0.387   31.08  176.56
=====
ID = 3 ( 0286):  96.43 10.024   30.17  207.06

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

| ADD HYD ( 0286) |
| 3 + 2 = 1 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 3 ( 0286):  96.43 10.024   30.17  207.06
+ ID2= 2 ( 0329):  19.50  0.481   30.00  197.84
=====
ID = 1 ( 0286): 115.93 10.505   30.17  205.51

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

| ROUTE CHN( 0323) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00
-----

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```

<----- DATA FOR SECTION ( 1.1) ----->
Distance      Elevation      Manning
0.00          100.00         0.0350   Main Channel
1.00          99.67          0.0350   Main Channel
2.00          99.67          0.0350   Main Channel
9.00          97.92          0.0350   Main Channel
11.00         97.92          0.0350   Main Channel
18.00         99.67          0.0350   Main Channel
19.00         99.67          0.0350   Main Channel
20.00         100.00         0.0350   Main Channel

```

```

<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)        (m)        (cu.m.)      (cms)          (m/s)         (min)
0.11      98.03      .133E+03      0.1            0.37          22.64
0.22      98.14      .315E+03      0.3            0.54          15.30
0.33      98.25      .544E+03      0.7            0.68          12.24
0.44      98.36      .821E+03      1.3            0.80          10.46
0.55      98.47      .115E+04      2.1            0.90           9.25
0.66      98.58      .152E+04      3.0            1.00           8.36
0.77      98.69      .194E+04      4.2            1.09           7.67
0.88      98.80      .241E+04      5.7            1.17           7.11
0.99      98.91      .293E+04      7.3            1.25           6.64

```

1.09	99.01	.349E+04	9.3	1.33	6.25
1.20	99.12	.410E+04	11.6	1.41	5.92
1.31	99.23	.477E+04	14.1	1.48	5.62
1.42	99.34	.547E+04	17.0	1.55	5.36
1.53	99.45	.623E+04	20.2	1.62	5.13
1.64	99.56	.704E+04	23.8	1.69	4.93
1.75	99.67	.789E+04	25.7	1.63	5.12
1.86	99.78	.889E+04	30.6	1.72	4.84
1.97	99.89	.993E+04	35.9	1.81	4.61
2.08	100.00	.110E+05	41.7	1.89	4.40

		<---- hydrograph ---->				<-pipe / channel->	
		AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
		(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0286)	115.93	10.51	30.17	205.51	1.15	1.37
OUTFLOW:	ID= 1 (0323)	115.93	10.43	30.25	205.51	1.15	1.37

CALIB			
NASHYD (0292)	Area (ha)=	11.52	Curve Number (CN)= 73.0
ID= 1 DT= 5.0 min	Ia (mm)=	8.00	# of Linear Res.(N)= 2.00
	U.H. Tp(hrs)=	1.20	

Unit Hyd Qpeak (cms)= 0.249

PEAK FLOW (cms)= 0.871 (i)
 TIME TO PEAK (hrs)= 31.333
 RUNOFF VOLUME (mm)= 176.652
 TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.699

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0296)					
1 + 2 = 3		AREA	QPEAK	TPEAK	R.V.
		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0292):		11.52	0.871	31.33	176.65
+ ID2= 2 (0323):		115.93	10.427	30.25	205.51
=====					
ID = 3 (0296):		127.45	11.108	30.25	202.90

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB

```
| STANDHYD ( 0285) | Area (ha)= 4.61
| ID= 1 DT= 5.0 min | Total Imp(%)= 85.00 Dir. Conn.(%)= 85.00
```

```
-----
                IMPERVIOUS      PERVIOUS (i)
Surface Area    (ha)=          3.92          0.69
Dep. Storage    (mm)=          1.00          1.50
Average Slope   (%)=          1.00          1.00
Length          (m)=        175.31         40.00
Mannings n      =           0.013         0.250

Max.Eff.Inten.(mm/hr)=      53.00         49.45
      over (min)           5.00         20.00
Storage Coeff. (min)=      4.61 (ii)     16.13 (ii)
Unit Hyd. Tpeak (min)=      5.00         20.00
Unit Hyd. peak (cms)=      0.22          0.06

                                     *TOTALS*
PEAK FLOW      (cms)=          0.58          0.09          0.668 (iii)
TIME TO PEAK   (hrs)=          29.92         30.00          30.00
RUNOFF VOLUME  (mm)=          251.60        197.89         243.54
TOTAL RAINFALL (mm)=          252.60        252.60         252.60
RUNOFF COEFFICIENT =          1.00          0.78          0.96
```

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```
-----
| ADD HYD ( 0282) |
| 1 + 2 = 3 |
-----
                AREA    QPEAK    TPEAK    R.V.
                (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0285):  4.61    0.668    30.00    243.54
+ ID2= 2 ( 0296): 127.45  11.108    30.25    202.90
=====
ID = 3 ( 0282):  132.06  11.614    30.25    204.32
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
-----
| ROUTE CHN( 0320) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00
```

```
<----- DATA FOR SECTION ( 1.1) ----->
Distance      Elevation      Manning
    0.00          100.00         0.0350      Main Channel
```

1.00	99.67	0.0350	Main Channel
2.00	99.67	0.0350	Main Channel
9.00	97.92	0.0350	Main Channel
11.00	97.92	0.0350	Main Channel
18.00	99.67	0.0350	Main Channel
19.00	99.67	0.0350	Main Channel
20.00	100.00	0.0350	Main Channel

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.11	98.03	.934E+02	0.1	0.37	15.85
0.22	98.14	.220E+03	0.3	0.54	10.71
0.33	98.25	.381E+03	0.7	0.68	8.57
0.44	98.36	.575E+03	1.3	0.80	7.32
0.55	98.47	.803E+03	2.1	0.90	6.47
0.66	98.58	.106E+04	3.0	1.00	5.85
0.77	98.69	.136E+04	4.2	1.09	5.37
0.88	98.80	.169E+04	5.7	1.17	4.98
0.99	98.91	.205E+04	7.3	1.25	4.65
1.09	99.01	.244E+04	9.3	1.33	4.38
1.20	99.12	.287E+04	11.6	1.41	4.14
1.31	99.23	.334E+04	14.1	1.48	3.94
1.42	99.34	.383E+04	17.0	1.55	3.75
1.53	99.45	.436E+04	20.2	1.62	3.59
1.64	99.56	.492E+04	23.8	1.69	3.45
1.75	99.67	.552E+04	25.7	1.63	3.58
1.86	99.78	.623E+04	30.6	1.72	3.39
1.97	99.89	.695E+04	35.9	1.81	3.22
2.08	100.00	.771E+04	41.7	1.89	3.08

	AREA (ha)	<---- hydrograph ---->			<-pipe / channel->	
		QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0282)	132.06	11.61	30.25	204.32	1.21	1.41
OUTFLOW: ID= 1 (0320)	132.06	11.60	30.25	204.32	1.20	1.41

CALIB		
NASHYD (0321)	Area (ha)= 23.47	Curve Number (CN)= 73.0
ID= 1 DT= 5.0 min	Ia (mm)= 8.00	# of Linear Res.(N)= 2.00
	U.H. Tp(hrs)= 1.20	

Unit Hyd Qpeak (cms)= 0.508

PEAK FLOW (cms)= 1.775 (i)
 TIME TO PEAK (hrs)= 31.333
 RUNOFF VOLUME (mm)= 176.652
 TOTAL RAINFALL (mm)= 252.599

RUNOFF COEFFICIENT = 0.699

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (0322) | Area (ha)= 52.69 Curve Number (CN)= 73.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.00 # of Linear Res.(N)= 2.00

U.H. Tp(hrs)= 1.70

Unit Hyd Qpeak (cms)= 0.804

PEAK FLOW (cms)= 3.375 (i)
TIME TO PEAK (hrs)= 31.833
RUNOFF VOLUME (mm)= 176.688
TOTAL RAINFALL (mm)= 252.599
RUNOFF COEFFICIENT = 0.699

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0334) | Area (ha)= 14.71
| ID= 1 DT= 5.0 min | Total Imp(%)= 65.00 Dir. Conn.(%)= 52.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	9.56	5.15
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	0.50
Length (m)=	313.16	10.00
Mannings n =	0.013	0.250

Max.Eff.Inten.(mm/hr)=	53.00	69.75
over (min)	5.00	15.00
Storage Coeff. (min)=	6.53 (ii)	11.91 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.18	0.09

			TOTALS
PEAK FLOW (cms)=	1.13	0.98	2.111 (iii)
TIME TO PEAK (hrs)=	29.92	30.00	30.00
RUNOFF VOLUME (mm)=	251.60	210.33	231.79
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.83	0.92

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0290)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0322):	52.69	3.375	31.83	176.69
+ ID2= 2 (0334):	14.71	2.111	30.00	231.79
ID = 3 (0290):	67.40	4.657	31.00	188.71

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB STANDHYD (0315)	Area (ha)=	Total Imp(%)=	Dir. Conn.(%)=
ID= 1 DT= 5.0 min	15.41	44.20	4.00

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	6.81	8.60	
Dep. Storage (mm)=	1.00	4.00	
Average Slope (%)=	0.50	0.50	
Length (m)=	250.00	10.00	
Mannings n =	0.013	0.250	
Max.Eff.Inten.(mm/hr)=	53.00	86.80	
over (min)	5.00	15.00	
Storage Coeff. (min)=	7.03 (ii)	11.95 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.17	0.09	
			TOTALS
PEAK FLOW (cms)=	0.09	2.05	2.136 (iii)
TIME TO PEAK (hrs)=	30.00	30.00	30.00
RUNOFF VOLUME (mm)=	251.60	205.45	207.29
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.81	0.82

***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0325)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0290):	67.40	4.657	31.00	188.71
+ ID2= 2 (0315):	15.41	2.136	30.00	207.29
=====				
ID = 3 (0325):	82.81	6.482	30.00	192.17

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB			
NASHYD (0338)			
ID= 1 DT= 5.0 min	Area (ha)=	47.88	Curve Number (CN)= 73.0
	Ia (mm)=	8.00	# of Linear Res.(N)= 2.00
	U.H. Tp(hrs)=	2.20	

Unit Hyd Qpeak (cms)= 0.565

PEAK FLOW (cms)= 2.677 (i)

TIME TO PEAK (hrs)= 32.167

RUNOFF VOLUME (mm)= 176.702

TOTAL RAINFALL (mm)= 252.599

RUNOFF COEFFICIENT = 0.700

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0295)			
ID= 1 DT= 5.0 min	Area (ha)=	13.00	Dir. Conn.(%)= 53.00
	Total Imp(%)=	67.00	

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	8.71	4.29
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	0.50
Length (m)=	294.39	10.00
Mannings n =	0.013	0.250

Max.Eff.Inten.(mm/hr)=	53.00	72.61
over (min)	10.00	15.00
Storage Coeff. (min)=	7.75 (ii)	12.72 (ii)
Unit Hyd. Tpeak (min)=	10.00	15.00
Unit Hyd. peak (cms)=	0.13	0.08

TOTALS

PEAK FLOW (cms)=	1.01	0.85	1.866 (iii)
TIME TO PEAK (hrs)=	30.00	30.00	30.00
RUNOFF VOLUME (mm)=	251.60	211.66	232.83
TOTAL RAINFALL (mm)=	252.60	252.60	252.60

RUNOFF COEFFICIENT = 1.00 0.84 0.92

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0275)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0295):	13.00	1.866	30.00	232.83
+ ID2= 2 (0338):	47.88	2.677	32.17	176.70
=====				
ID = 3 (0275):	60.88	3.713	31.00	188.69

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)=	Dir. Conn.(%)=
STANDHYD (0336)	12.72	
ID= 1 DT= 5.0 min	Total Imp(%)= 25.30	3.00

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	3.22	9.50	
Dep. Storage (mm)=	1.00	4.00	
Average Slope (%)=	0.50	0.50	
Length (m)=	220.00	10.00	
Mannings n =	0.013	0.250	
Max.Eff.Inten.(mm/hr)=	53.00	63.74	
over (min)	5.00	15.00	
Storage Coeff. (min)=	6.51 (ii)	12.08 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.18	0.09	
			TOTALS
PEAK FLOW (cms)=	0.06	1.65	1.711 (iii)
TIME TO PEAK (hrs)=	29.92	30.00	30.00
RUNOFF VOLUME (mm)=	251.60	193.43	195.18
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.77	0.77

***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20% YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

- CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
 - (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0341) |
| 1 + 2 = 3 |
-----

```

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0275):	60.88	3.713	31.00	188.69
+ ID2= 2 (0336):	12.72	1.711	30.00	195.18
=====				
ID = 3 (0341):	73.60	5.285	30.00	189.81

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0314) |
| 1 + 2 = 3 |
-----

```

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0325):	82.81	6.482	30.00	192.17
+ ID2= 2 (0341):	73.60	5.285	30.00	189.81
=====				
ID = 3 (0314):	156.41	11.767	30.00	191.06

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0276) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00
-----

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```

<----- DATA FOR SECTION ( 1.1) ----->

```

Distance	Elevation	Manning	
0.00	100.00	0.0350	Main Channel
8.00	98.00	0.0350	Main Channel
16.00	100.00	0.0350	Main Channel

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.11	98.11	.177E+02	0.0	0.41	16.16
0.21	98.21	.709E+02	0.1	0.65	10.18
0.32	98.32	.160E+03	0.3	0.86	7.77
0.42	98.42	.284E+03	0.7	1.04	6.41
0.53	98.53	.443E+03	1.3	1.21	5.53
0.63	98.63	.638E+03	2.2	1.36	4.90

0.74	98.74	.869E+03	3.3	1.51	4.42
0.84	98.84	.113E+04	4.7	1.65	4.04
0.95	98.95	.144E+04	6.4	1.78	3.74
1.05	99.05	.177E+04	8.5	1.91	3.48
1.16	99.16	.215E+04	10.9	2.04	3.27
1.26	99.26	.255E+04	13.8	2.16	3.08
1.37	99.37	.300E+04	17.1	2.28	2.92
1.47	99.47	.347E+04	20.8	2.40	2.78
1.58	99.58	.399E+04	25.0	2.51	2.66
1.68	99.68	.454E+04	29.7	2.62	2.55
1.79	99.79	.512E+04	34.9	2.73	2.44
1.89	99.89	.574E+04	40.7	2.83	2.35
2.00	100.00	.640E+04	47.0	2.94	2.27

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0329)	40.62	4.85	30.00	197.84	0.85	1.66
OUTFLOW: ID= 1 (0276)	40.62	4.82	30.08	197.84	0.85	1.66

ADD HYD (0326)					
1 + 2 = 3					
	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0276):	40.62	4.823	30.08	197.84	
+ ID2= 2 (0314):	156.41	11.767	30.00	191.06	
=====					
ID = 3 (0326):	197.03	16.563	30.00	192.46	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB			
STANDHYD (0294)			
ID= 1 DT= 5.0 min			
Area	(ha)=	11.34	
Total Imp(%)	=	35.00	Dir. Conn.(%)= 20.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	3.97	7.37
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	0.50
Length (m)=	274.95	40.00
Mannings n =	0.015	0.200
Max.Eff.Inten.(mm/hr)=	53.00	62.05
over (min)	10.00	20.00
Storage Coeff. (min)=	8.11 (ii)	19.43 (ii)
Unit Hyd. Tpeak (min)=	10.00	20.00

Unit Hyd. peak (cms)=	0.13	0.06	
			TOTALS
PEAK FLOW (cms)=	0.33	1.19	1.525 (iii)
TIME TO PEAK (hrs)=	30.00	30.08	30.00
RUNOFF VOLUME (mm)=	251.60	206.35	215.40
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.82	0.85

***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0291)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0294):	11.34	1.525	30.00	215.40
+ ID2= 2 (0326):	197.03	16.563	30.00	192.46
=====				
ID = 3 (0291):	208.37	18.088	30.00	193.71

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)=	10.08
STANDHYD (0280)	Total Imp(%)=	85.00
ID= 1 DT= 5.0 min	Dir. Conn.(%)=	85.00

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	8.57	1.51	
Dep. Storage (mm)=	1.00	1.50	
Average Slope (%)=	0.50	0.50	
Length (m)=	320.00	40.00	
Mannings n =	0.015	0.200	
Max.Eff.Inten.(mm/hr)=	53.00	49.45	
over (min)	10.00	25.00	
Storage Coeff. (min)=	8.88 (ii)	21.28 (ii)	
Unit Hyd. Tpeak (min)=	10.00	25.00	
Unit Hyd. peak (cms)=	0.12	0.05	
			TOTALS
PEAK FLOW (cms)=	1.26	0.19	1.448 (iii)
TIME TO PEAK (hrs)=	30.00	30.08	30.00

RUNOFF VOLUME	(mm)=	251.60	197.89	243.54
TOTAL RAINFALL	(mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT	=	1.00	0.78	0.96

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0297) |
| 1 + 2 = 3 |
-----
                AREA      QPEAK      TPEAK      R.V.
                (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0280):  10.08    1.448     30.00    243.54
+ ID2= 2 ( 0291): 208.37   18.088    30.00    193.71
=====
ID = 3 ( 0297):  218.45   19.537    30.00    196.01

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ROUTE CHN( 0273) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00
-----

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```

<----- DATA FOR SECTION ( 1.1) ----->
Distance      Elevation      Manning
  0.00         208.50         0.0800
 17.50         205.99         0.0800
 23.70         205.99         0.0800 /0.0350 Main Channel
 23.90         205.59         0.0350      Main Channel
 26.10         205.59         0.0350      Main Channel
 26.30         205.99         0.0350 /0.0800 Main Channel
 32.50         205.99         0.0800
 42.50         208.50         0.0800
 50.00         209.10         0.0800
 53.60         210.15         0.0800

```

```

<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)        (m)        (cu.m.)      (cms)          (m/s)        (min)
0.13      205.72     .756E+02     0.1            0.39         10.71
0.27      205.86     .156E+03     0.4            0.58         7.13
0.40      205.99     .240E+03     0.7            0.73         5.72
0.56      206.15     .862E+03     1.7            0.48         8.62
0.71      206.30     .155E+04     3.3            0.53         7.91
0.87      206.46     .231E+04     5.4            0.59         7.10

```


1.03	206.62	.313E+04	8.1	0.65	6.45
1.18	206.77	.403E+04	11.3	0.70	5.93
1.34	206.93	.499E+04	15.1	0.75	5.52
1.50	207.09	.601E+04	19.3	0.80	5.18
1.66	207.24	.711E+04	24.2	0.85	4.90
1.81	207.40	.827E+04	29.6	0.89	4.66
1.97	207.56	.950E+04	35.6	0.94	4.45
2.13	207.72	.108E+05	42.2	0.98	4.26
2.28	207.87	.122E+05	49.4	1.02	4.10
2.44	208.03	.136E+05	57.2	1.05	3.96
2.60	208.19	.151E+05	65.7	1.09	3.83
2.75	208.34	.167E+05	74.9	1.12	3.71
2.91	208.50	.183E+05	84.7	1.16	3.60

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0297)	218.45	19.54	30.00	196.01	1.50	0.81
OUTFLOW: ID= 1 (0273)	218.45	19.34	30.08	196.01	1.50	0.80

CALIB		
NASHYD (0332)	Area (ha)= 3.67	Curve Number (CN)= 72.0
ID= 1 DT= 5.0 min	Ia (mm)= 5.00	# of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.20		

Unit Hyd Qpeak (cms)= 0.701

PEAK FLOW (cms)= 0.472 (i)
 TIME TO PEAK (hrs)= 30.000
 RUNOFF VOLUME (mm)= 176.653
 TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.699

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB		
STANDHYD (0337)	Area (ha)= 13.86	
ID= 1 DT= 5.0 min	Total Imp(%)= 85.00	Dir. Conn.(%)= 85.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	11.78	2.08
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	0.50
Length (m)=	303.97	40.00
Mannings n =	0.013	0.200

Max.Eff.Inten.(mm/hr)=	53.00	49.45	
over (min)	10.00	25.00	
Storage Coeff. (min)=	7.90 (ii)	20.30 (ii)	
Unit Hyd. Tpeak (min)=	10.00	25.00	
Unit Hyd. peak (cms)=	0.13	0.05	
			TOTALS
PEAK FLOW (cms)=	1.73	0.26	1.995 (iii)
TIME TO PEAK (hrs)=	30.00	30.08	30.00
RUNOFF VOLUME (mm)=	251.60	197.89	243.54
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.78	0.96

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0271)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0332):	3.67	0.472	30.00	176.65
+ ID2= 2 (0337):	13.86	1.995	30.00	243.54
=====				
ID = 3 (0271):	17.53	2.467	30.00	229.54

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0343)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0271):	17.53	2.467	30.00	229.54
+ ID2= 2 (0273):	218.45	19.336	30.08	196.01
=====				
ID = 3 (0343):	235.98	21.747	30.00	198.50

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
NASHYD (0344)				
ID= 1 DT= 5.0 min				
	Area (ha)=	4.08	Curve Number (CN)=	72.0
	Ia (mm)=	5.00	# of Linear Res.(N)=	3.00
	U.H. Tp(hrs)=	0.10		

Unit Hyd Qpeak (cms)= 1.558

PEAK FLOW (cms)= 0.517 (i)
TIME TO PEAK (hrs)= 30.000
RUNOFF VOLUME (mm)= 172.391
TOTAL RAINFALL (mm)= 252.599
RUNOFF COEFFICIENT = 0.682

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```
-----  
| ADD HYD ( 0340) |  
| 1 + 2 = 3 |  
-----  
          AREA      QPEAK      TPEAK      R.V.  
          (ha)      (cms)      (hrs)      (mm)  
ID1= 1 ( 0343): 235.98 21.747 30.00 198.50  
+ ID2= 2 ( 0344): 4.08 0.517 30.00 172.39  
=====
```

```
ID = 3 ( 0340): 240.06 22.263 30.00 198.05
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
-----  
| CALIB |  
| STANDHYD ( 0333) | Area (ha)= 23.92  
| ID= 1 DT= 5.0 min | Total Imp(%)= 85.00 Dir. Conn.(%)= 85.00  
-----
```

```
          IMPERVIOUS      PERVIOUS (i)  
Surface Area (ha)= 20.33 3.59  
Dep. Storage (mm)= 1.00 1.50  
Average Slope (%)= 1.00 0.50  
Length (m)= 399.33 40.00  
Mannings n = 0.015 0.200  
  
Max.Eff.Inten.(mm/hr)= 53.00 49.45  
over (min) 10.00 25.00  
Storage Coeff. (min)= 8.24 (ii) 20.64 (ii)  
Unit Hyd. Tpeak (min)= 10.00 25.00  
Unit Hyd. peak (cms)= 0.13 0.05  
  
*TOTALS*  
PEAK FLOW (cms)= 2.99 0.46 3.441 (iii)  
TIME TO PEAK (hrs)= 30.00 30.08 30.00  
RUNOFF VOLUME (mm)= 251.60 197.89 243.54  
TOTAL RAINFALL (mm)= 252.60 252.60 252.60  
RUNOFF COEFFICIENT = 1.00 0.78 0.96
```

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

- CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0312)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0333):	23.92	3.441	30.00	243.54
+ ID2= 2 (0340):	240.06	22.263	30.00	198.05
=====				
ID = 3 (0312):	263.98	25.704	30.00	202.17

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)=	Dir. Conn.(%)=
STANDHYD (0313)	36.03	
ID= 1 DT= 5.0 min	Total Imp(%)= 85.00	85.00

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	30.63	5.40	
Dep. Storage (mm)=	1.00	1.50	
Average Slope (%)=	0.50	0.50	
Length (m)=	500.00	40.00	
Mannings n =	0.015	0.200	
Max.Eff.Inten.(mm/hr)=	53.00	49.45	
over (min)	10.00	25.00	
Storage Coeff. (min)=	11.60 (ii)	24.01 (ii)	
Unit Hyd. Tpeak (min)=	10.00	25.00	
Unit Hyd. peak (cms)=	0.10	0.05	
			TOTALS
PEAK FLOW (cms)=	4.48	0.67	5.141 (iii)
TIME TO PEAK (hrs)=	30.00	30.17	30.00
RUNOFF VOLUME (mm)=	251.60	197.89	243.54
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.78	0.96

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0277) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0312):  263.98  25.704   30.00   202.17
+ ID2= 2 ( 0313):   36.03   5.141   30.00   243.54
=====
ID = 3 ( 0277):  300.01  30.845   30.00   207.14

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0284) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0277):  300.01  30.845   30.00   207.14
+ ID2= 2 ( 0321):   23.47   1.775   31.33   176.65
=====
ID = 3 ( 0284):  323.48  32.077   30.00   204.93

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0331) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0284):  323.48  32.077   30.00   204.93
+ ID2= 2 ( 0320):  132.06  11.595   30.25   204.32
=====
ID = 3 ( 0331):  455.54  43.136   30.00   204.75

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0298) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00
-----

```

```

<----- DATA FOR SECTION ( 2.0) ----->
Distance      Elevation      Manning
   0.00        101.30        0.0300
   3.00        100.70        0.0300
   6.00        100.70        0.0300
  13.00        100.40        0.0300
  17.00        100.30        0.0300 /0.0300  Main Channel
  18.00        100.00        0.0300        Main Channel

```

18.50	100.30	0.0300 /0.0300	Main Channel
22.00	100.40	0.0300	
29.00	100.70	0.0300	
32.00	100.70	0.0300	
35.00	101.30	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.06	100.06	.675E+01	0.0	0.19	64.83
0.12	100.12	.270E+02	0.0	0.31	40.84
0.18	100.18	.607E+02	0.0	0.40	31.17
0.24	100.24	.108E+03	0.1	0.49	25.73
0.30	100.30	.169E+03	0.1	0.56	22.17
0.37	100.37	.393E+03	0.3	0.55	22.84
0.44	100.44	.884E+03	0.7	0.57	21.96
0.51	100.51	.156E+04	1.3	0.64	19.38
0.59	100.59	.242E+04	2.3	0.73	17.22
0.66	100.66	.346E+04	3.7	0.81	15.51
0.73	100.73	.479E+04	5.2	0.81	15.47
0.80	100.80	.637E+04	8.0	0.94	13.31
0.87	100.87	.800E+04	11.3	1.06	11.76
0.94	100.94	.967E+04	15.2	1.18	10.60
1.01	101.01	.114E+05	19.5	1.29	9.70
1.09	101.09	.131E+05	24.4	1.39	8.97
1.16	101.16	.149E+05	29.6	1.49	8.38
1.23	101.23	.167E+05	35.3	1.59	7.88
1.30	101.30	.186E+05	41.5	1.68	7.46

**** WARNING: TRAVEL TIME TABLE EXCEEDED

	<---- hydrograph ---->				<-pipe / channel->	
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0331)	455.54	43.14	30.00	204.75	1.30	1.67
OUTFLOW: ID= 1 (0298)	455.54	42.46	30.17	204.75	1.30	1.68

| CALIB |
| STANDHYD (0316) |
ID= 1 DT= 5.0 min

Area (ha)= 6.73
Total Imp(%)= 85.00 Dir. Conn.(%)= 85.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	5.72	1.01
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	0.50
Length (m)=	211.82	76.00
Mannings n =	0.013	0.250
Max.Eff.Inten.(mm/hr)=	53.00	49.32

over (min)	5.00	30.00	
Storage Coeff. (min)=	6.36 (ii)	27.22 (ii)	
Unit Hyd. Tpeak (min)=	5.00	30.00	
Unit Hyd. peak (cms)=	0.18	0.04	
			TOTALS
PEAK FLOW (cms)=	0.84	0.12	0.959 (iii)
TIME TO PEAK (hrs)=	29.92	30.25	30.00
RUNOFF VOLUME (mm)=	251.60	197.89	243.54
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.78	0.96

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0328) |
| 1 + 2 = 3 |
-----

```

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0298):	455.54	42.461	30.17	204.75
+ ID2= 2 (0316):	6.73	0.959	30.00	243.54
=====				
ID = 3 (0328):	462.27	43.257	30.08	205.32

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| STANDHYD ( 0041) |
| ID= 1 DT= 5.0 min |
-----

```

Area (ha)=	107.00		
Total Imp(%)=	52.00	Dir. Conn.(%)=	35.00

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	55.64	51.36	
Dep. Storage (mm)=	1.50	1.50	
Average Slope (%)=	0.50	2.00	
Length (m)=	789.00	789.00	
Mannings n =	0.015	0.200	
Max.Eff.Inten.(mm/hr)=	53.00	65.79	
over (min)	15.00	60.00	
Storage Coeff. (min)=	15.26 (ii)	58.93 (ii)	
Unit Hyd. Tpeak (min)=	15.00	60.00	
Unit Hyd. peak (cms)=	0.07	0.02	
			TOTALS
PEAK FLOW (cms)=	5.39	6.84	10.850 (iii)

TIME TO PEAK	(hrs)=	30.00	31.00	30.92
RUNOFF VOLUME	(mm)=	251.10	194.94	214.60
TOTAL RAINFALL	(mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT	=	0.99	0.77	0.85

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0274)|
| 1 + 2 = 3 |
-----
                AREA      QPEAK      TPEAK      R.V.
                (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0328): 462.27  43.257    30.08    205.32
+ ID2= 2 ( 0041): 107.00  10.850    30.92    214.60
=====
ID = 3 ( 0274): 569.27  53.876    30.17    207.06

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0043)|
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
-----

```

```

<----- DATA FOR SECTION ( 3.0) ----->
Distance      Elevation      Manning
0.00          101.30         0.0300
3.00          100.70         0.0300
6.00          100.70         0.0300
13.00         100.40         0.0300
17.00         100.30         0.0300 /0.0130 Main Channel
18.00         100.00         0.0130      Main Channel
18.50         100.30         0.0130 /0.0300 Main Channel
22.00         100.40         0.0300
29.00         100.70         0.0300
32.00         100.70         0.0300
35.00         101.30         0.0300

```

```

<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)        (m)        (cu.m.)      (cms)          (m/s)        (min)
0.06      100.06      .675E+01      0.0            0.44         28.09
0.12      100.12      .270E+02      0.0            0.71         17.70
0.18      100.18      .607E+02      0.1            0.93         13.51
0.24      100.24      .108E+03      0.2            1.12         11.15

```


0.30	100.30	.169E+03	0.3	1.30	9.61
0.37	100.37	.393E+03	0.6	1.15	10.83
0.44	100.44	.884E+03	1.2	1.00	12.52
0.51	100.51	.156E+04	2.1	0.99	12.57
0.59	100.59	.242E+04	3.3	1.03	12.13
0.66	100.66	.346E+04	5.0	1.08	11.57
0.73	100.73	.479E+04	6.7	1.05	11.85
0.80	100.80	.637E+04	9.9	1.16	10.74
0.87	100.87	.800E+04	13.6	1.28	9.79
0.94	100.94	.967E+04	17.9	1.39	9.02
1.01	101.01	.114E+05	22.6	1.49	8.38
1.09	101.09	.131E+05	27.9	1.59	7.84
1.16	101.16	.149E+05	33.6	1.69	7.39
1.23	101.23	.167E+05	39.8	1.79	7.00
1.30	101.30	.186E+05	46.4	1.88	6.66

**** WARNING: TRAVEL TIME TABLE EXCEEDED

		AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
		(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0274)	569.27	53.88	30.17	207.06	1.30	1.88
OUTFLOW:	ID= 1 (0043)	569.27	53.40	30.27	186.11	1.30	1.88

**** WARNING : THE HYD WAS CUT TO 2000 POINTS

CALIB			
STANDHYD (0044)	Area (ha)=	80.00	
ID= 1 DT= 5.0 min	Total Imp(%)=	52.00	Dir. Conn.(%)= 35.00

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	41.60	38.40	
Dep. Storage (mm)=	1.50	1.50	
Average Slope (%)=	0.50	2.00	
Length (m)=	730.00	730.00	
Mannings n =	0.015	0.200	
Max.Eff.Inten.(mm/hr)=	53.00	70.25	
over (min)	15.00	60.00	
Storage Coeff. (min)=	14.56 (ii)	55.17 (ii)	
Unit Hyd. Tpeak (min)=	15.00	60.00	
Unit Hyd. peak (cms)=	0.08	0.02	
			TOTALS
PEAK FLOW (cms)=	4.04	5.54	8.547 (iii)
TIME TO PEAK (hrs)=	30.00	30.92	30.83
RUNOFF VOLUME (mm)=	251.10	224.26	233.66
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	0.99	0.89	0.93

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0045)|
| 1 + 2 = 3 |
-----

```

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0043):	569.27	53.401	30.27	186.11
+ ID2= 2 (0044):	80.00	8.547	30.83	233.66
=====				
ID = 3 (0045):	649.27	61.768	30.27	191.28

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0046)|
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
-----

```

```

<----- DATA FOR SECTION ( 4.0) ----->

```

Distance	Elevation	Manning	
0.00	102.50	0.0300	
3.00	101.90	0.0300	
6.00	101.90	0.0300	
13.00	100.50	0.0300	
21.50	100.30	0.0300 /0.0130	Main Channel
22.00	100.00	0.0130	Main Channel
23.00	100.30	0.0130 /0.0300	Main Channel
32.00	100.50	0.0300	
39.00	100.90	0.0300	
42.00	100.90	0.0300	
45.00	102.50	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.188E+02	0.0	0.44	28.26
0.20	100.20	.750E+02	0.1	0.70	17.80
0.30	100.30	.169E+03	0.2	0.92	13.59
0.44	100.44	.944E+03	0.8	0.65	19.21
0.58	100.58	.282E+04	2.6	0.68	18.34
0.71	100.71	.512E+04	5.6	0.82	15.26
0.85	100.85	.773E+04	9.8	0.95	13.20
0.99	100.99	.108E+05	15.0	1.04	12.00
1.13	101.13	.141E+05	22.3	1.18	10.57
1.26	101.26	.175E+05	30.7	1.32	9.50

1.40	101.40	.210E+05	40.4	1.44	8.68
1.54	101.54	.246E+05	51.2	1.56	8.02
1.68	101.68	.283E+05	63.1	1.67	7.48
1.81	101.81	.321E+05	76.1	1.78	7.03
1.95	101.95	.361E+05	87.3	1.81	6.90
2.09	102.09	.404E+05	103.2	1.91	6.53
2.23	102.23	.448E+05	120.2	2.01	6.21
2.36	102.36	.493E+05	138.4	2.10	5.94
2.50	102.50	.539E+05	157.8	2.20	5.69

		<----- hydrograph ----->				<-pipe / channel->	
		AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
		(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0045)	649.27	61.77	30.27	191.28	1.66	1.66
OUTFLOW:	ID= 1 (0046)	649.27	61.23	30.35	189.66	1.65	1.65

CALIB					
STANDHYD (0047)		Area (ha)=	72.00		
ID= 1 DT= 5.0 min		Total Imp(%)=	50.00	Dir. Conn.(%)=	33.00

		IMPERVIOUS	PERVIOUS (i)	
Surface Area	(ha)=	36.00	36.00	
Dep. Storage	(mm)=	1.50	1.50	
Average Slope	(%)=	0.50	2.00	
Length	(m)=	693.00	693.00	
Mannings n	=	0.015	0.200	
Max.Eff.Inten.(mm/hr)=		53.00	69.53	
over (min)		15.00	55.00	
Storage Coeff. (min)=		14.11 (ii)	53.64 (ii)	
Unit Hyd. Tpeak (min)=		15.00	55.00	
Unit Hyd. peak (cms)=		0.08	0.02	
				TOTALS
PEAK FLOW (cms)=		3.44	5.18	7.743 (iii)
TIME TO PEAK (hrs)=		30.00	30.83	30.75
RUNOFF VOLUME (mm)=		251.10	223.99	232.94
TOTAL RAINFALL (mm)=		252.60	252.60	252.60
RUNOFF COEFFICIENT =		0.99	0.89	0.92

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0048)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0046):	649.27	61.230	30.35	189.66
+ ID2= 2 (0047):	72.00	7.743	30.75	232.94
=====				
ID = 3 (0048):	721.27	68.890	30.35	193.47

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
STANDHYD (0049)				
ID= 1 DT= 5.0 min	Area	(ha)=	Total Imp(%)=	Dir. Conn.(%)=
	22.00		56.00	38.00

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	12.32	9.68	
Dep. Storage (mm)=	1.50	1.50	
Average Slope (%)=	0.50	2.00	
Length (m)=	382.97	383.00	
Mannings n =	0.015	0.200	
Max.Eff.Inten.(mm/hr)=	53.00	73.30	
over (min)	10.00	40.00	
Storage Coeff. (min)=	9.89 (ii)	37.00 (ii)	
Unit Hyd. Tpeak (min)=	10.00	40.00	
Unit Hyd. peak (cms)=	0.11	0.03	
			TOTALS
PEAK FLOW (cms)=	1.23	1.61	2.675 (iii)
TIME TO PEAK (hrs)=	30.00	30.42	30.08
RUNOFF VOLUME (mm)=	251.10	225.25	235.08
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	0.99	0.89	0.93

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

DUHYD (0050)				
Inlet Cap.= 1.200				
#of Inlets= 1				
Total(cms)= 1.2				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
TOTAL HYD.(ID= 1):	22.00	2.68	30.08	235.08

```

=====
MAJOR SYS.(ID= 2):  3.86      1.48      30.08  235.08
MINOR SYS.(ID= 3): 18.14      1.20      26.83  235.08

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| STANDHYD ( 0051) | Area (ha)= 16.50
| ID= 1 DT= 5.0 min | Total Imp(%)= 56.00 Dir. Conn.(%)= 38.00
-----

```

		IMPERVIOUS	PERVIOUS (i)	
Surface Area	(ha)=	9.24	7.26	
Dep. Storage	(mm)=	1.50	1.50	
Average Slope	(%)=	0.50	2.00	
Length	(m)=	332.00	332.00	
Mannings n	=	0.015	0.200	
Max.Eff.Inten.(mm/hr)=		53.00	73.33	
over (min)		10.00	35.00	
Storage Coeff. (min)=		9.08 (ii)	33.96 (ii)	
Unit Hyd. Tpeak (min)=		10.00	35.00	
Unit Hyd. peak (cms)=		0.12	0.03	
				TOTALS
PEAK FLOW (cms)=		0.92	1.24	2.070 (iii)
TIME TO PEAK (hrs)=		30.00	30.33	30.00
RUNOFF VOLUME (mm)=		251.10	225.25	235.08
TOTAL RAINFALL (mm)=		252.60	252.60	252.60
RUNOFF COEFFICIENT =		0.99	0.89	0.93

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| DUHYD ( 0052) |
| Inlet Cap.= 1.800 |
| #of Inlets= 1 |
| Total(cms)= 1.8 |
-----
| AREA | QPEAK | TPEAK | R.V. |
| (ha) | (cms) | (hrs) | (mm) |
TOTAL HYD.(ID= 1): 16.50  2.07  30.00  235.08
=====
MAJOR SYS.(ID= 2):  0.24  0.27  30.00  235.08
MINOR SYS.(ID= 3): 16.26  1.80  29.75  235.08

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0053) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0050):  3.86    1.475    30.08    235.08
+ ID2= 2 ( 0052):  0.24    0.270    30.00    235.08
=====
ID = 3 ( 0053):  4.10    1.742    30.00    235.08

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0054) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0048): 721.27  68.890   30.35   193.47
+ ID2= 2 ( 0053):  4.10    1.742    30.00   235.08
=====
ID = 3 ( 0054): 725.37  70.373   30.35   193.71

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0055) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
-----

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```

<----- DATA FOR SECTION ( 5.0) ----->
Distance      Elevation      Manning
  0.00         102.50         0.0300
  3.00         101.90         0.0300
  6.00         101.90         0.0300
 13.00         100.50         0.0300
 21.50         100.30         0.0300 /0.0130 Main Channel
 22.00         100.00         0.0130      Main Channel
 23.00         100.30         0.0130 /0.0300 Main Channel
 32.00         100.50         0.0300
 39.00         100.90         0.0300
 42.00         100.90         0.0300
 45.00         102.50         0.0300

```

```

<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)        (m)        (cu.m.)      (cms)          (m/s)        (min)
0.10      100.10     .163E+02     0.0            0.70         15.49
0.20      100.20     .650E+02     0.1            1.11         9.76

```

0.30	100.30	.146E+03	0.3	1.45	7.45
0.44	100.44	.818E+03	1.3	1.03	10.53
0.58	100.58	.245E+04	4.1	1.08	10.05
0.71	100.71	.443E+04	8.8	1.29	8.37
0.85	100.85	.670E+04	15.4	1.50	7.23
0.99	100.99	.937E+04	23.7	1.65	6.58
1.13	101.13	.122E+05	35.2	1.87	5.79
1.26	101.26	.152E+05	48.6	2.08	5.21
1.40	101.40	.182E+05	63.9	2.28	4.76
1.54	101.54	.213E+05	80.9	2.46	4.40
1.68	101.68	.245E+05	99.8	2.64	4.10
1.81	101.81	.278E+05	120.4	2.81	3.85
1.95	101.95	.313E+05	138.0	2.87	3.78
2.09	102.09	.350E+05	163.1	3.03	3.58
2.23	102.23	.388E+05	190.0	3.18	3.41
2.36	102.36	.427E+05	218.8	3.33	3.26
2.50	102.50	.467E+05	249.5	3.47	3.12

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0054)	725.37	70.37	30.35	193.71	1.45	2.35
OUTFLOW: ID= 1 (0055)	725.37	70.22	30.40	192.70	1.45	2.34

CALIB			
STANDHYD (0056)	Area (ha)=	45.00	
ID= 1 DT= 5.0 min	Total Imp(%)=	50.00	Dir. Conn.(%)= 36.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	22.50	22.50
Dep. Storage (mm)=	1.50	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	547.72	548.00
Mannings n =	0.015	0.200

Max.Eff.Inten.(mm/hr)=	53.00	66.33
over (min)	10.00	50.00
Storage Coeff. (min)=	12.26 (ii)	47.24 (ii)
Unit Hyd. Tpeak (min)=	10.00	50.00
Unit Hyd. peak (cms)=	0.10	0.02

	TOTALS		
PEAK FLOW (cms)=	2.37	3.19	5.007 (iii)
TIME TO PEAK (hrs)=	30.00	30.67	30.08
RUNOFF VOLUME (mm)=	251.10	222.80	232.99
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	0.99	0.88	0.92

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0057)|
| 1 + 2 = 3 |
-----

```

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0055):	725.37	70.215	30.40	192.70
+ ID2= 2 (0056):	45.00	5.007	30.08	232.99
=====				
ID = 3 (0057):	770.37	75.139	30.42	194.86

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0058)|
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
-----

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```

<----- DATA FOR SECTION ( 6.0) ----->

```

Distance	Elevation	Manning	
0.00	102.40	0.0300	
5.50	101.30	0.0300	
18.00	101.10	0.0300	
21.00	100.50	0.0300	
29.50	100.30	0.0300 /0.0130	Main Channel
30.00	100.00	0.0130	Main Channel
31.00	100.30	0.0130 /0.0300	Main Channel
38.50	100.50	0.0300	
41.50	101.10	0.0300	
54.50	101.30	0.0300	
60.00	102.40	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.200E+02	0.0	0.38	34.81
0.20	100.20	.800E+02	0.1	0.61	21.93
0.30	100.30	.180E+03	0.2	0.80	16.73
0.43	100.43	.889E+03	0.7	0.59	22.59
0.56	100.56	.259E+04	2.0	0.60	22.10
0.69	100.69	.456E+04	4.2	0.73	18.19
0.83	100.83	.667E+04	7.2	0.86	15.54
0.96	100.96	.892E+04	10.8	0.97	13.72
1.09	101.09	.113E+05	15.2	1.08	12.39
1.22	101.22	.145E+05	17.1	0.95	14.10

1.35	101.35	.193E+05	23.0	0.95	13.97
1.48	101.48	.246E+05	32.6	1.06	12.55
1.61	101.61	.300E+05	43.7	1.17	11.43
1.74	101.74	.355E+05	56.2	1.27	10.54
1.88	101.88	.412E+05	70.0	1.36	9.81
2.01	102.01	.470E+05	85.2	1.45	9.20
2.14	102.14	.530E+05	101.7	1.54	8.68
2.27	102.27	.591E+05	119.5	1.62	8.24
2.40	102.40	.653E+05	138.5	1.70	7.86

		<----- hydrograph ----->				<-pipe / channel->	
		AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
		(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0057)	770.37	75.14	30.42	194.86	1.92	1.39
OUTFLOW:	ID= 1 (0058)	770.37	74.30	30.58	192.44	1.91	1.38

CALIB						
STANDHYD (0059)	Area	(ha)=	50.00			
ID= 1 DT= 5.0 min	Total Imp(%)=	49.00		Dir. Conn.(%)=	34.00	

		IMPERVIOUS	PERVIOUS (i)	
Surface Area	(ha)=	24.50	25.50	
Dep. Storage	(mm)=	1.50	1.50	
Average Slope	(%)=	0.50	2.00	
Length	(m)=	577.35	577.00	
Mannings n	=	0.015	0.200	
Max.Eff.Inten.(mm/hr)=		53.00	67.06	
over (min)		15.00	50.00	
Storage Coeff. (min)=		12.65 (ii)	48.58 (ii)	
Unit Hyd. Tpeak (min)=		15.00	50.00	
Unit Hyd. peak (cms)=		0.08	0.02	
				TOTALS
PEAK FLOW	(cms)=	2.48	3.63	5.558 (iii)
TIME TO PEAK	(hrs)=	30.00	30.67	30.17
RUNOFF VOLUME	(mm)=	251.10	223.09	232.61
TOTAL RAINFALL	(mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT	=	0.99	0.88	0.92

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0060) |
| 1 + 2 = 3 |
-----

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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0058):	770.37	74.297	30.58	192.44
+ ID2= 2 (0059):	50.00	5.558	30.17	232.61
=====				
ID = 3 (0060):	820.37	79.778	30.58	194.66

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ROUTE CHN( 0061) |
| IN= 2---> OUT= 1 |
-----

```

Routing time step (min)'= 1.00

```

<----- DATA FOR SECTION ( 7.0) ----->

```

Distance	Elevation	Manning	
0.00	102.40	0.0300	
5.50	101.30	0.0300	
18.00	101.10	0.0300	
21.00	100.50	0.0300	
29.50	100.30	0.0300 /0.0130	Main Channel
30.00	100.00	0.0130	Main Channel
31.00	100.30	0.0130 /0.0300	Main Channel
38.50	100.50	0.0300	
41.50	101.10	0.0300	
54.50	101.30	0.0300	
60.00	102.40	0.0300	

```

<----- TRAVEL TIME TABLE ----->

```

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.150E+02	0.0	0.38	26.11
0.20	100.20	.600E+02	0.1	0.61	16.45
0.30	100.30	.135E+03	0.2	0.80	12.55
0.43	100.43	.667E+03	0.7	0.59	16.94
0.56	100.56	.194E+04	2.0	0.60	16.58
0.69	100.69	.342E+04	4.2	0.73	13.64
0.83	100.83	.500E+04	7.2	0.86	11.65
0.96	100.96	.669E+04	10.8	0.97	10.29
1.09	101.09	.848E+04	15.2	1.08	9.29
1.22	101.22	.109E+05	17.1	0.95	10.58
1.35	101.35	.145E+05	23.0	0.95	10.48
1.48	101.48	.184E+05	32.6	1.06	9.41
1.61	101.61	.225E+05	43.7	1.17	8.58
1.74	101.74	.266E+05	56.2	1.27	7.90
1.88	101.88	.309E+05	70.0	1.36	7.36
2.01	102.01	.353E+05	85.2	1.45	6.90
2.14	102.14	.397E+05	101.7	1.54	6.51
2.27	102.27	.443E+05	119.5	1.62	6.18

2.40 102.40 .490E+05 138.5 1.70 5.89

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0060)	820.37	79.78	30.58	194.66	1.96	1.42
OUTFLOW: ID= 1 (0061)	820.37	79.38	30.70	192.79	1.96	1.41

```

-----
| CALIB |
| STANDHYD ( 0062) | Area (ha)= 65.00
| ID= 1 DT= 5.0 min | Total Imp(%)= 50.00 Dir. Conn.(%)= 34.00
-----

```

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	32.50	32.50	
Dep. Storage (mm)=	1.50	1.50	
Average Slope (%)=	0.50	2.00	
Length (m)=	658.28	658.00	
Mannings n =	0.015	0.200	
Max.Eff.Inten.(mm/hr)=	53.00	68.45	
over (min)	15.00	55.00	
Storage Coeff. (min)=	13.69 (ii)	52.24 (ii)	
Unit Hyd. Tpeak (min)=	15.00	55.00	
Unit Hyd. peak (cms)=	0.08	0.02	
			TOTALS
PEAK FLOW (cms)=	3.20	4.63	7.015 (iii)
TIME TO PEAK (hrs)=	30.00	30.83	30.67
RUNOFF VOLUME (mm)=	251.10	223.60	232.95
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	0.99	0.89	0.92

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0063) |
| 1 + 2 = 3 |
-----

```

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0061):	820.37	79.385	30.70	192.79
+ ID2= 2 (0062):	65.00	7.015	30.67	232.95
=====				
ID = 3 (0063):	885.37	86.400	30.70	195.39

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| STANDHYD ( 0066) | Area (ha)= 34.00
| ID= 1 DT= 5.0 min | Total Imp(%)= 47.00 Dir. Conn.(%)= 31.00
-----

```

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	15.98	18.02	
Dep. Storage (mm)=	1.50	1.50	
Average Slope (%)=	0.50	2.00	
Length (m)=	476.10	476.00	
Mannings n =	0.015	0.200	
Max.Eff.Inten.(mm/hr)=	53.00	67.51	
over (min)	10.00	45.00	
Storage Coeff. (min)=	11.27 (ii)	43.19 (ii)	
Unit Hyd. Tpeak (min)=	10.00	45.00	
Unit Hyd. peak (cms)=	0.10	0.03	
			TOTALS
PEAK FLOW (cms)=	1.54	2.66	3.856 (iii)
TIME TO PEAK (hrs)=	30.00	30.58	30.08
RUNOFF VOLUME (mm)=	251.10	223.24	231.88
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	0.99	0.88	0.92

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| CALIB |
| STANDHYD ( 0064) | Area (ha)= 44.00
| ID= 1 DT= 5.0 min | Total Imp(%)= 57.00 Dir. Conn.(%)= 39.00
-----

```

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	25.08	18.92	
Dep. Storage (mm)=	1.50	1.50	
Average Slope (%)=	0.50	2.00	
Length (m)=	541.60	542.00	
Mannings n =	0.015	0.200	
Max.Eff.Inten.(mm/hr)=	53.00	73.78	
over (min)	10.00	50.00	
Storage Coeff. (min)=	12.17 (ii)	45.48 (ii)	

Unit Hyd. Tpeak (min)=	10.00	50.00	
Unit Hyd. peak (cms)=	0.10	0.02	
			TOTALS
PEAK FLOW (cms)=	2.51	3.01	5.002 (iii)
TIME TO PEAK (hrs)=	30.00	30.67	30.08
RUNOFF VOLUME (mm)=	251.10	225.42	235.43
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	0.99	0.89	0.93

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ROUTE CHN(0065) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (8.0) ----->

Distance	Elevation	Manning	
0.00	102.30	0.0300	
10.00	100.30	0.0300	
37.00	100.30	0.0300 /0.0130	Main Channel
38.00	100.00	0.0130	Main Channel
38.50	100.30	0.0130 /0.0300	Main Channel
65.00	100.30	0.0300	
75.00	102.30	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.188E+02	0.0	0.38	32.63
0.20	100.20	.750E+02	0.1	0.61	20.56
0.30	100.30	.169E+03	0.2	0.79	15.72
0.43	100.43	.538E+04	2.7	0.37	33.75
0.55	100.55	.107E+05	7.8	0.55	22.83
0.68	100.68	.162E+05	15.1	0.70	17.88
0.80	100.80	.217E+05	24.2	0.83	14.99
0.93	100.93	.274E+05	34.9	0.96	13.07
1.05	101.05	.332E+05	47.3	1.07	11.69
1.18	101.18	.391E+05	61.3	1.17	10.64
1.30	101.30	.452E+05	76.7	1.27	9.81
1.43	101.43	.513E+05	93.6	1.37	9.14
1.55	101.55	.576E+05	111.9	1.46	8.58
1.67	101.67	.640E+05	131.6	1.54	8.11
1.80	101.80	.705E+05	152.6	1.62	7.70
1.92	101.92	.771E+05	175.1	1.70	7.34
2.05	102.05	.838E+05	198.8	1.78	7.03

2.17	102.17	.907E+05	224.0	1.85	6.75
2.30	102.30	.977E+05	250.4	1.92	6.50

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0064)	44.00	5.00	30.08	235.43	0.48	0.43
OUTFLOW: ID= 1 (0065)	44.00	4.71	31.00	228.95	0.47	0.42

**** WARNING : THE HYD WAS CUT TO 2000 POINTS

```

-----
| ADD HYD ( 0067) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0065):  44.00  4.709   31.00  228.95
+ ID2= 2 ( 0066):  34.00  3.856   30.08  231.88
=====
ID = 3 ( 0067):  78.00  8.419   30.70  229.07

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0068) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0063):  885.37  86.400  30.70  195.39
+ ID2= 2 ( 0067):  78.00  8.419   30.70  229.07
=====
ID = 3 ( 0068):  963.37  94.819  30.70  198.12

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| STANDHYD ( 0069) |
| ID= 1 DT= 5.0 min |
-----
Area (ha)= 47.00
Total Imp(%)= 45.00 Dir. Conn.(%)= 29.00

```

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	21.15	25.85
Dep. Storage (mm)=	1.50	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	559.76	560.00
Mannings n =	0.015	0.200
Max.Eff.Inten.(mm/hr)=	53.00	66.88

over (min)	10.00	50.00	
Storage Coeff. (min)=	12.42 (ii)	47.74 (ii)	
Unit Hyd. Tpeak (min)=	10.00	50.00	
Unit Hyd. peak (cms)=	0.10	0.02	
			TOTALS
PEAK FLOW (cms)=	1.99	3.68	5.152 (iii)
TIME TO PEAK (hrs)=	30.00	30.67	30.58
RUNOFF VOLUME (mm)=	251.10	223.02	231.17
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	0.99	0.88	0.92

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0070)|
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0068):  963.37  94.819   30.70   198.12
+ ID2= 2 ( 0069):   47.00   5.152   30.58   231.17
=====
ID = 3 ( 0070): 1010.37  99.965   30.70   199.48

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0072)|
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
-----
<----- DATA FOR SECTION ( 9.0) ----->
Distance      Elevation      Manning
  0.00         102.30         0.0500
 10.00         100.30         0.0500
 19.50         100.30         0.0500 /0.0350 Main Channel
 20.00         100.00         0.0350 Main Channel
 21.00         100.30         0.0350 /0.0500 Main Channel
 30.00         100.30         0.0500
 40.00         102.30         0.0500

<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)        (m)      (cu.m.)      (cms)      (m/s)      (min)
0.10     100.10     .125E+02      0.0      0.28      29.29
0.20     100.20     .500E+02      0.0      0.45      18.45

```

0.30	100.30	.113E+03	0.1	0.59	14.08
0.43	100.43	.140E+04	1.3	0.45	18.37
0.55	100.55	.277E+04	3.6	0.65	12.85
0.68	100.68	.421E+04	6.9	0.81	10.23
0.80	100.80	.574E+04	11.0	0.96	8.68
0.93	100.93	.734E+04	16.0	1.09	7.65
1.05	101.05	.902E+04	21.8	1.21	6.89
1.18	101.18	.108E+05	28.4	1.32	6.32
1.30	101.30	.126E+05	35.8	1.42	5.87
1.43	101.43	.145E+05	44.1	1.52	5.49
1.55	101.55	.165E+05	53.1	1.61	5.18
1.67	101.67	.186E+05	63.0	1.69	4.92
1.80	101.80	.207E+05	73.7	1.78	4.69
1.92	101.92	.230E+05	85.3	1.86	4.49
2.05	102.05	.253E+05	97.7	1.93	4.31
2.17	102.17	.277E+05	111.0	2.01	4.15
2.30	102.30	.301E+05	125.2	2.08	4.01

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0070)	1010.37	99.96	30.70	199.48	2.07	1.95
OUTFLOW: ID= 1 (0072)	1010.37	99.87	30.75	198.40	2.07	1.94

CALIB				
STANDHYD (0210)	Area (ha)=	8.52		
ID= 1 DT= 5.0 min	Total Imp(%)=	27.00	Dir. Conn.(%)=	27.00

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	2.30	6.22	
Dep. Storage (mm)=	1.00	1.50	
Average Slope (%)=	0.95	0.95	
Length (m)=	238.33	549.00	
Mannings n =	0.013	0.400	
Max.Eff.Inten.(mm/hr)=	53.00	51.01	
over (min)	5.00	80.00	
Storage Coeff. (min)=	5.63 (ii)	79.35 (ii)	
Unit Hyd. Tpeak (min)=	5.00	80.00	
Unit Hyd. peak (cms)=	0.20	0.01	
			TOTALS
PEAK FLOW (cms)=	0.34	0.59	0.821 (iii)
TIME TO PEAK (hrs)=	29.92	31.25	31.00
RUNOFF VOLUME (mm)=	251.60	215.59	225.31
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.85	0.89

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ROUTE CHN(0236) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 5.00

<----- DATA FOR SECTION (2.0) ----->

Distance	Elevation	Manning	
0.00	101.30	0.0300	
3.00	100.70	0.0300	
6.00	100.70	0.0300	
13.00	100.40	0.0300	
17.00	100.30	0.0300 / 0.0130	Main Channel
18.00	100.00	0.0130	Main Channel
18.50	100.30	0.0130 / 0.0300	Main Channel
22.00	100.40	0.0300	
29.00	100.70	0.0300	
32.00	100.70	0.0300	
35.00	101.30	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.06	100.06	.182E+02	0.0	0.47	72.36
0.12	100.12	.729E+02	0.0	0.74	45.58
0.18	100.18	.164E+03	0.1	0.97	34.79
0.24	100.24	.292E+03	0.2	1.18	28.72
0.30	100.30	.456E+03	0.3	1.36	24.75
0.37	100.37	.106E+04	0.6	1.21	27.90
0.44	100.44	.239E+04	1.2	1.05	32.24
0.51	100.51	.422E+04	2.2	1.04	32.38
0.59	100.59	.654E+04	3.5	1.08	31.25
0.66	100.66	.933E+04	5.2	1.13	29.81
0.73	100.73	.129E+05	7.1	1.11	30.53
0.80	100.80	.172E+05	10.4	1.22	27.65
0.87	100.87	.216E+05	14.3	1.34	25.23
0.94	100.94	.261E+05	18.7	1.45	23.23
1.01	101.01	.307E+05	23.7	1.56	21.58
1.09	101.09	.354E+05	29.2	1.67	20.20
1.16	101.16	.402E+05	35.2	1.77	19.03
1.23	101.23	.451E+05	41.7	1.87	18.03
1.30	101.30	.501E+05	48.7	1.97	17.16

<----- hydrograph -----> <-pipe / channel->

AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
--------------	----------------	----------------	--------------	------------------	------------------

INFLOW : ID= 2 (0210) 8.52 0.82 31.00 225.31 0.39 1.15
 OUTFLOW: ID= 1 (0236) 8.52 0.74 31.17 225.29 0.38 1.18

 | CALIB |
 | STANDHYD (0211) | Area (ha)= 37.10
 | ID= 1 DT= 5.0 min | Total Imp(%)= 75.00 Dir. Conn.(%)= 60.00

		IMPERVIOUS	PERVIOUS (i)	
Surface Area	(ha)=	27.82	9.27	
Dep. Storage	(mm)=	1.00	1.50	
Average Slope	(%)=	0.50	2.00	
Length	(m)=	497.33	40.00	
Mannings n	=	0.013	0.250	
Max.Eff.Inten.(mm/hr)=		53.00	84.21	
over (min)		10.00	20.00	
Storage Coeff. (min)=		10.62 (ii)	18.18 (ii)	
Unit Hyd. Tpeak (min)=		10.00	20.00	
Unit Hyd. peak (cms)=		0.11	0.06	
				TOTALS
PEAK FLOW (cms)=		3.27	2.07	5.331 (iii)
TIME TO PEAK (hrs)=		30.00	30.00	30.00
RUNOFF VOLUME (mm)=		251.60	235.18	245.03
TOTAL RAINFALL (mm)=		252.60	252.60	252.60
RUNOFF COEFFICIENT =		1.00	0.93	0.97

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 90.0 Ia = Dep. Storage (Above)
 (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
 (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (0212) | Area (ha)= 13.56
 | ID= 1 DT= 5.0 min | Total Imp(%)= 21.00 Dir. Conn.(%)= 21.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	2.85	10.71
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	0.25
Length	(m)=	300.67	40.00
Mannings n	=	0.013	0.250
Max.Eff.Inten.(mm/hr)=		53.00	52.12
over (min)		10.00	25.00

Storage Coeff. (min)=	7.85 (ii)	24.94 (ii)	
Unit Hyd. Tpeak (min)=	10.00	25.00	
Unit Hyd. peak (cms)=	0.13	0.05	
			TOTALS
PEAK FLOW (cms)=	0.42	1.40	1.793 (iii)
TIME TO PEAK (hrs)=	30.00	30.17	30.00
RUNOFF VOLUME (mm)=	251.60	225.73	231.16
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.89	0.92

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 90.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0237)				
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0211):	37.10	5.331	30.00	245.03
+ ID2= 2 (0212):	13.56	1.793	30.00	231.16
=====				
ID = 3 (0237):	50.66	7.125	30.00	241.32

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0238)				
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0236):	8.52	0.744	31.17	225.29
+ ID2= 2 (0237):	50.66	7.125	30.00	241.32
=====				
ID = 3 (0238):	59.18	7.709	30.00	239.01

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0074)				
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0238):	59.18	7.709	30.00	239.01
+ ID2= 2 (0072):	1010.37	99.870	30.75	198.40

=====
ID = 3 (0074): 1069.55 106.071 30.73 200.47

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0104) |
1 + 2 = 3
AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
ID1= 1 (0235): 457.23 45.313 31.08 212.05
+ ID2= 2 (0074): 1069.55 106.071 30.73 200.47

ID = 3 (0104): 1526.78 150.406 31.00 203.94

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ROUTE CHN(0105) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (16.0) ----->
Distance Elevation Manning
0.00 102.30 0.0500
10.00 100.30 0.0500
22.00 100.30 0.0500 /0.0350 Main Channel
22.50 100.00 0.0350 Main Channel
23.50 100.30 0.0350 /0.0500 Main Channel
35.00 100.30 0.0500
45.00 102.30 0.0500

<----- TRAVEL TIME TABLE ----->
DEPTH ELEV VOLUME FLOW RATE VELOCITY TRAV.TIME
(m) (m) (cu.m.) (cms) (m/s) (min)
0.10 100.10 .100E+02 0.0 0.16 40.58
0.20 100.20 .400E+02 0.0 0.26 25.56
0.30 100.30 .901E+02 0.1 0.34 19.53
0.43 100.43 .137E+04 0.9 0.25 26.16
0.55 100.55 .272E+04 2.5 0.37 17.98
0.68 100.68 .412E+04 4.8 0.47 14.21
0.80 100.80 .559E+04 7.8 0.56 12.01
0.93 100.93 .712E+04 11.3 0.63 10.54
1.05 101.05 .872E+04 15.3 0.70 9.48
1.18 101.18 .104E+05 19.9 0.77 8.67
1.30 101.30 .121E+05 25.1 0.83 8.03
1.43 101.43 .139E+05 30.8 0.89 7.51
1.55 101.55 .157E+05 37.0 0.94 7.08
1.67 101.67 .176E+05 43.8 0.99 6.71
1.80 101.80 .196E+05 51.1 1.04 6.39

1.92	101.92	.216E+05	59.0	1.09	6.11
2.05	102.05	.237E+05	67.4	1.14	5.86
2.17	102.17	.259E+05	76.4	1.18	5.64
2.30	102.30	.281E+05	85.9	1.22	5.45

**** WARNING: TRAVEL TIME TABLE EXCEEDED

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0104)	1526.78	150.41	31.00	203.94	2.30	1.22
OUTFLOW: ID= 1 (0105)	1526.78	150.03	31.05	202.62	2.30	1.22

CALIB				
STANDHYD (0109)	Area (ha)=	42.87		
ID= 1 DT= 5.0 min	Total Imp(%)=	56.00	Dir. Conn.(%)=	38.00

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	24.01	18.86	
Dep. Storage (mm)=	1.50	1.50	
Average Slope (%)=	0.50	2.00	
Length (m)=	534.60	560.00	
Mannings n =	0.015	0.200	
Max.Eff.Inten.(mm/hr)=	53.00	73.27	
over (min)	10.00	50.00	
Storage Coeff. (min)=	12.08 (ii)	46.14 (ii)	
Unit Hyd. Tpeak (min)=	10.00	50.00	
Unit Hyd. peak (cms)=	0.10	0.02	
			TOTALS
PEAK FLOW (cms)=	2.38	2.97	4.841 (iii)
TIME TO PEAK (hrs)=	30.00	30.67	30.08
RUNOFF VOLUME (mm)=	251.10	225.25	235.08
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	0.99	0.89	0.93

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB				
STANDHYD (0108)	Area (ha)=	79.90		
ID= 1 DT= 5.0 min	Total Imp(%)=	56.00	Dir. Conn.(%)=	38.00

		IMPERVIOUS	PERVIOUS (i)	
Surface Area	(ha)=	44.74	35.16	
Dep. Storage	(mm)=	1.50	1.50	
Average Slope	(%)=	0.50	2.00	
Length	(m)=	729.84	757.00	
Mannings n	=	0.015	0.200	
Max.Eff.Inten.(mm/hr)=		53.00	73.21	
over (min)		15.00	60.00	
Storage Coeff. (min)=		14.56 (ii)	55.38 (ii)	
Unit Hyd. Tpeak (min)=		15.00	60.00	
Unit Hyd. peak (cms)=		0.08	0.02	
				TOTALS
PEAK FLOW	(cms)=	4.39	5.28	8.541 (iii)
TIME TO PEAK	(hrs)=	30.00	30.92	30.83
RUNOFF VOLUME	(mm)=	251.10	225.25	235.08
TOTAL RAINFALL	(mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT	=	0.99	0.89	0.93

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0110) |
| 1 + 2 = 3 |
-----

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	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0108):	79.90	8.541	30.83	235.08
+ ID2= 2 (0109):	42.87	4.841	30.08	235.08
=====				
ID = 3 (0110):	122.77	13.278	30.08	235.08

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ROUTE CHN( 0112) |
| IN= 2----> OUT= 1 | Routing time step (min)'= 1.00
-----

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<----- DATA FOR SECTION ( 17.0) ----->

```

Distance	Elevation	Manning	
0.00	190.50	0.0300	
9.00	187.50	0.0300 /0.0130	Main Channel
9.10	187.00	0.0130	Main Channel
10.90	187.00	0.0130	Main Channel
11.00	187.50	0.0130 /0.0300	Main Channel

20.00 190.50 0.0300

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.17	187.17	.917E+02	0.2	0.81	6.14
0.33	187.33	.187E+03	0.7	1.19	4.22
0.50	187.50	.285E+03	1.4	1.44	3.47
0.69	187.69	.429E+03	2.4	1.69	2.96
0.88	187.88	.637E+03	3.8	1.78	2.80
1.06	188.06	.907E+03	5.5	1.83	2.73
1.25	188.25	.124E+04	7.7	1.87	2.67
1.44	188.44	.164E+04	10.4	1.91	2.62
1.63	188.63	.210E+04	13.6	1.94	2.57
1.81	188.81	.262E+04	17.3	1.98	2.52
2.00	189.00	.321E+04	21.7	2.03	2.47
2.19	189.19	.386E+04	26.6	2.07	2.41
2.38	189.38	.457E+04	32.3	2.12	2.36
2.56	189.56	.535E+04	38.6	2.16	2.31
2.75	189.75	.619E+04	45.7	2.21	2.26
2.94	189.94	.710E+04	53.5	2.26	2.21
3.13	190.13	.806E+04	62.1	2.31	2.16
3.31	190.31	.909E+04	71.6	2.36	2.12
3.50	190.50	.102E+05	81.9	2.41	2.07

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0110)	122.77	13.28	30.08	235.08	1.61	1.94
OUTFLOW: ID= 1 (0112)	122.77	13.25	30.17	230.02	1.60	1.94

**** WARNING : THE HYD WAS CUT TO 2000 POINTS
 **** WARNING: COMPUTATIONS FAILED TO CONVERGE.

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0105):	1526.78	150.032	31.05	202.62
+ ID2= 2 (0112):	122.77	13.247	30.17	230.02
=====				
ID = 3 (0107):	1649.55	163.061	31.02	204.66

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ROUTE CHN(0114)	
IN= 2---> OUT= 1	Routing time step (min)'= 1.00

<----- DATA FOR SECTION (18.0) ----->

Distance	Elevation	Manning	
0.00	102.30	0.0500	
10.00	100.30	0.0500	
66.75	100.30	0.0500 /0.0350	Main Channel
67.50	100.00	0.0350	Main Channel
68.25	100.30	0.0350 /0.0500	Main Channel
125.00	100.30	0.0500	
135.00	102.30	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.250E+02	0.0	0.17	100.97
0.20	100.20	.100E+03	0.0	0.26	63.61
0.30	100.30	.226E+03	0.1	0.34	48.77
0.43	100.43	.147E+05	3.4	0.23	72.16
0.55	100.55	.293E+05	10.5	0.36	46.47
0.68	100.68	.441E+05	20.5	0.47	35.77
0.80	100.80	.590E+05	33.1	0.56	29.70
0.93	100.93	.741E+05	48.0	0.65	25.72
1.05	101.05	.893E+05	65.1	0.73	22.87
1.18	101.18	.105E+06	84.2	0.80	20.72
1.30	101.30	.120E+06	105.3	0.88	19.03
1.43	101.43	.136E+06	128.3	0.94	17.65
1.55	101.55	.152E+06	153.2	1.01	16.51
1.67	101.67	.168E+06	179.8	1.07	15.55
1.80	101.80	.184E+06	208.3	1.13	14.72
1.92	101.92	.200E+06	238.4	1.19	14.00
2.05	102.05	.217E+06	270.2	1.25	13.37
2.17	102.17	.233E+06	303.7	1.30	12.81
2.30	102.30	.250E+06	338.8	1.35	12.31

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	<-pipe / channel-> MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0107)	1649.55	163.06	31.02	204.66	1.60	1.03
OUTFLOW: ID= 1 (0114)	1649.55	160.54	31.13	199.14	1.58	1.02

**** WARNING: COMPUTATIONS FAILED TO CONVERGE.

CALIB	Area (ha)=	Curve Number (CN)=
NASHYD (0218)	2.52	90.0
ID= 1 DT= 5.0 min	Ia (mm)= 5.00	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.81	

Unit Hyd Qpeak (cms)= 0.119

PEAK FLOW (cms)= 0.283 (i)
 TIME TO PEAK (hrs)= 30.917
 RUNOFF VOLUME (mm)= 222.262
 TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.880

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| CALIB |
| STANDHYD ( 0215) | Area (ha)= 1.84
| ID= 1 DT= 5.0 min | Total Imp(%)= 67.00 Dir. Conn.(%)= 54.00
-----
  
```

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	1.23	0.61	
Dep. Storage (mm)=	1.00	1.50	
Average Slope (%)=	0.50	2.00	
Length (m)=	110.75	40.00	
Mannings n =	0.013	0.250	
Max.Eff.Inten.(mm/hr)=	53.00	73.22	
over (min)	5.00	15.00	
Storage Coeff. (min)=	4.31 (ii)	12.31 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.23	0.09	
			TOTALS
PEAK FLOW (cms)=	0.15	0.12	0.268 (iii)
TIME TO PEAK (hrs)=	29.92	30.00	30.00
RUNOFF VOLUME (mm)=	251.60	232.78	242.94
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.92	0.96

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 90.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0239) |
| 1 + 2 = 3 |
-----
      AREA      QPEAK      TPEAK      R.V.
      (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0215):  1.84  0.268  30.00  242.94
+ ID2= 2 ( 0218):  2.52  0.283  30.92  222.26
=====
ID = 3 ( 0239):  4.36  0.488  30.00  230.99
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | ROUTE CHN(0240) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 5.00

<----- DATA FOR SECTION (2.0) ----->
 Distance Elevation Manning
 0.00 101.30 0.0300
 3.00 100.70 0.0300
 6.00 100.70 0.0300
 13.00 100.40 0.0300
 17.00 100.30 0.0300 /0.0130 Main Channel
 18.00 100.00 0.0130 Main Channel
 18.50 100.30 0.0130 /0.0300 Main Channel
 22.00 100.40 0.0300
 29.00 100.70 0.0300
 32.00 100.70 0.0300
 35.00 101.30 0.0300

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.06	100.06	.112E+02	0.0	0.28	73.92
0.12	100.12	.449E+02	0.0	0.45	46.56
0.18	100.18	.101E+03	0.0	0.59	35.54
0.24	100.24	.180E+03	0.1	0.71	29.33
0.30	100.30	.281E+03	0.2	0.82	25.28
0.37	100.37	.653E+03	0.4	0.73	28.50
0.44	100.44	.147E+04	0.7	0.63	32.94
0.51	100.51	.260E+04	1.3	0.63	33.08
0.59	100.59	.403E+04	2.1	0.65	31.93
0.66	100.66	.575E+04	3.1	0.68	30.45
0.73	100.73	.797E+04	4.3	0.67	31.18
0.80	100.80	.106E+05	6.3	0.74	28.25
0.87	100.87	.133E+05	8.6	0.81	25.77
0.94	100.94	.161E+05	11.3	0.88	23.73
1.01	101.01	.189E+05	14.3	0.94	22.04
1.09	101.09	.218E+05	17.6	1.01	20.64
1.16	101.16	.248E+05	21.2	1.07	19.44
1.23	101.23	.278E+05	25.2	1.13	18.42
1.30	101.30	.309E+05	29.4	1.19	17.53

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0239)	4.36	0.49	30.00	230.99	0.39	0.70
OUTFLOW: ID= 1 (0240)	4.36	0.46	31.08	230.89	0.39	0.71

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-----
| CALIB |
| NASHYD ( 0216) | Area (ha)= 10.76 Curve Number (CN)= 91.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
-----
| U.H. Tp(hrs)= 1.43

```

Unit Hyd Qpeak (cms)= 0.287

PEAK FLOW (cms)= 1.011 (i)
 TIME TO PEAK (hrs)= 31.500
 RUNOFF VOLUME (mm)= 224.791
 TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.890

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0241) |
| 1 + 2 = 3 |
-----
| AREA QPEAK TPEAK R.V. |
| (ha) (cms) (hrs) (mm) |
| ID1= 1 ( 0216): 10.76 1.011 31.50 224.79 |
| + ID2= 2 ( 0240): 4.36 0.459 31.08 230.89 |
| ===== |
| ID = 3 ( 0241): 15.12 1.444 31.25 226.55 |

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| NASHYD ( 0219) | Area (ha)= 1.37 Curve Number (CN)= 90.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
-----
| U.H. Tp(hrs)= 0.23

```

Unit Hyd Qpeak (cms)= 0.228

PEAK FLOW (cms)= 0.197 (i)
 TIME TO PEAK (hrs)= 30.000
 RUNOFF VOLUME (mm)= 222.019
 TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.879

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB |

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| STANDHYD (0220) | Area (ha)= 3.24
 | ID= 1 DT= 5.0 min | Total Imp(%)= 75.00 Dir. Conn.(%)= 60.00

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	2.43	0.81	
Dep. Storage (mm)=	1.00	1.50	
Average Slope (%)=	0.50	2.00	
Length (m)=	146.97	40.00	
Mannings n =	0.013	0.250	
Max.Eff.Inten.(mm/hr)=	53.00	84.21	
over (min)	5.00	15.00	
Storage Coeff. (min)=	5.11 (ii)	12.67 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.21	0.08	
			TOTALS
PEAK FLOW (cms)=	0.29	0.19	0.473 (iii)
TIME TO PEAK (hrs)=	29.92	30.00	30.00
RUNOFF VOLUME (mm)=	251.60	235.18	245.03
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.93	0.97

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 90.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0242)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0219):	1.37	0.197	30.00	222.02
+ ID2= 2 (0220):	3.24	0.473	30.00	245.03
=====				
ID = 3 (0242):	4.61	0.670	30.00	238.19

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0243)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0241):	15.12	1.444	31.25	226.55
+ ID2= 2 (0242):	4.61	0.670	30.00	238.19
=====				

ID = 3 (0243): 19.73 1.900 31.00 229.27

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |
| NASHYD (0217) | Area (ha)= 36.62 Curve Number (CN)= 90.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00

U.H. Tp(hrs)= 1.11

Unit Hyd Qpeak (cms)= 1.260

PEAK FLOW (cms)= 3.771 (i)
TIME TO PEAK (hrs)= 31.250
RUNOFF VOLUME (mm)= 222.264
TOTAL RAINFALL (mm)= 252.599
RUNOFF COEFFICIENT = 0.880

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0244) |
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)
ID1= 1 (0217): 36.62 3.771 31.25 222.26
+ ID2= 2 (0243): 19.73 1.900 31.00 229.27
=====

ID = 3 (0244): 56.35 5.617 31.00 224.72

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |
| NASHYD (0221) | Area (ha)= 2.45 Curve Number (CN)= 90.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00

U.H. Tp(hrs)= 0.65

Unit Hyd Qpeak (cms)= 0.144

PEAK FLOW (cms)= 0.291 (i)
TIME TO PEAK (hrs)= 30.500
RUNOFF VOLUME (mm)= 222.260
TOTAL RAINFALL (mm)= 252.599
RUNOFF COEFFICIENT = 0.880

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0245)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0221):	2.45	0.291	30.50	222.26
+ ID2= 2 (0244):	56.35	5.617	31.00	224.72
=====				
ID = 3 (0245):	58.80	5.896	31.00	224.61

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)=	17.81
STANDHYD (0222)	Total Imp(%)=	25.00
ID= 1 DT= 5.0 min	Dir. Conn.(%)=	25.00

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	4.45	13.36	
Dep. Storage (mm)=	1.00	1.50	
Average Slope (%)=	0.61	0.61	
Length (m)=	344.58	406.60	
Mannings n =	0.013	0.200	
Max.Eff.Inten.(mm/hr)=	53.00	52.49	
over (min)	10.00	55.00	
Storage Coeff. (min)=	8.02 (ii)	53.89 (ii)	
Unit Hyd. Tpeak (min)=	10.00	55.00	
Unit Hyd. peak (cms)=	0.13	0.02	
			TOTALS
PEAK FLOW (cms)=	0.66	1.45	1.921 (iii)
TIME TO PEAK (hrs)=	30.00	30.83	30.83
RUNOFF VOLUME (mm)=	251.60	233.33	237.90
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.92	0.94

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 93.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0246)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)

ID1= 1 (0222):	17.81	1.921	30.83	237.90
+ ID2= 2 (0245):	58.80	5.896	31.00	224.61
=====				
ID = 3 (0246):	76.61	7.808	31.00	227.70

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| CALIB |
| STANDHYD ( 0223) | Area (ha)= 2.09
| ID= 1 DT= 5.0 min | Total Imp(%)= 75.00 Dir. Conn.(%)= 60.00
-----

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	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	1.57	0.52	
Dep. Storage (mm)=	1.00	1.50	
Average Slope (%)=	0.50	2.00	
Length (m)=	118.04	40.00	
Mannings n =	0.013	0.250	
Max.Eff.Inten.(mm/hr)=	53.00	84.21	
over (min)	5.00	15.00	
Storage Coeff. (min)=	4.48 (ii)	12.04 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.23	0.09	
			TOTALS
PEAK FLOW (cms)=	0.18	0.12	0.306 (iii)
TIME TO PEAK (hrs)=	29.92	30.00	30.00
RUNOFF VOLUME (mm)=	251.60	235.18	245.03
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.93	0.97

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 90.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0247) |
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
| | (ha) (cms) (hrs) (mm)
-----
ID1= 1 ( 0223): 2.09 0.306 30.00 245.03
+ ID2= 2 ( 0246): 76.61 7.808 31.00 227.70
-----
ID = 3 ( 0247): 78.70 8.028 31.00 228.16
-----

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB			
STANDHYD (0224)			
ID= 1 DT= 5.0 min			

	Area (ha)=	5.94	
	Total Imp(%)=	23.00	Dir. Conn.(%)= 23.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	1.37	4.57
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.65	0.65
Length	(m)=	199.00	40.00
Mannings n	=	0.013	0.250
Max.Eff.Inten.(mm/hr)=		53.00	52.14
over (min)		5.00	20.00
Storage Coeff. (min)=		5.66 (ii)	18.49 (ii)
Unit Hyd. Tpeak (min)=		5.00	20.00
Unit Hyd. peak (cms)=		0.20	0.06
			TOTALS
PEAK FLOW (cms)=		0.20	0.63
			0.830 (iii)
TIME TO PEAK (hrs)=		29.92	30.00
			30.00
RUNOFF VOLUME (mm)=		251.60	225.73
			231.68
TOTAL RAINFALL (mm)=		252.60	252.60
			252.60
RUNOFF COEFFICIENT =		1.00	0.89
			0.92

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 90.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0248)				
1 + 2 = 3				

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0224):	5.94	0.830	30.00	231.68
+ ID2= 2 (0247):	78.70	8.028	31.00	228.16
=====				
ID = 3 (0248):	84.64	8.660	31.00	228.41

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0116) |

1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0114):	1649.55	160.538	31.13	199.14
+ ID2= 2 (0248):	84.64	8.660	31.00	228.41
=====				
ID = 3 (0116):	1734.19	168.819	31.12	200.13

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)=	Total Imp(%)=	Dir. Conn.(%)=
STANDHYD (0117)	75.00	56.00	38.00
ID= 1 DT= 5.0 min			

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	42.00	33.00	
Dep. Storage (mm)=	1.50	1.50	
Average Slope (%)=	0.50	2.00	
Length (m)=	739.00	739.00	
Mannings n =	0.015	0.200	
Max.Eff.Inten.(mm/hr)=	53.00	73.21	
over (min)	15.00	55.00	
Storage Coeff. (min)=	14.67 (ii)	54.91 (ii)	
Unit Hyd. Tpeak (min)=	15.00	55.00	
Unit Hyd. peak (cms)=	0.08	0.02	
			TOTALS
PEAK FLOW (cms)=	4.11	4.97	8.144 (iii)
TIME TO PEAK (hrs)=	30.00	30.83	30.17
RUNOFF VOLUME (mm)=	251.10	225.25	235.08
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	0.99	0.89	0.93

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ROUTE CHN(0119)	Routing time step (min)'=
IN= 2---> OUT= 1	1.00

<----- DATA FOR SECTION (19.0) ----->			
Distance	Elevation	Manning	
0.00	190.50	0.0300	
9.00	187.50	0.0300 /0.0130	Main Channel
9.10	187.00	0.0130	Main Channel

10.90	187.00	0.0130	Main Channel
11.00	187.50	0.0130 / 0.0300	Main Channel
20.00	190.50	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.17	187.17	.122E+03	0.2	0.81	8.19
0.33	187.33	.249E+03	0.7	1.19	5.62
0.50	187.50	.380E+03	1.4	1.44	4.62
0.69	187.69	.572E+03	2.4	1.69	3.95
0.88	187.88	.849E+03	3.8	1.78	3.74
1.06	188.06	.121E+04	5.5	1.83	3.63
1.25	188.25	.166E+04	7.7	1.87	3.56
1.44	188.44	.218E+04	10.4	1.91	3.50
1.63	188.63	.280E+04	13.6	1.94	3.43
1.81	188.81	.350E+04	17.3	1.98	3.36
2.00	189.00	.428E+04	21.7	2.03	3.29
2.19	189.19	.515E+04	26.6	2.07	3.22
2.38	189.38	.610E+04	32.3	2.12	3.15
2.56	189.56	.714E+04	38.6	2.16	3.08
2.75	189.75	.826E+04	45.7	2.21	3.01
2.94	189.94	.946E+04	53.5	2.26	2.95
3.13	190.13	.107E+05	62.1	2.31	2.88
3.31	190.31	.121E+05	71.6	2.36	2.82
3.50	190.50	.136E+05	81.9	2.41	2.76

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0117)	75.00	8.14	30.17	235.08	1.28	1.88
OUTFLOW: ID= 1 (0119)	75.00	8.09	30.20	229.45	1.27	1.87

***** WARNING : THE HYD WAS CUT TO 2000 POINTS

ADD HYD (0120)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0116):	1734.19	168.819	31.12	200.13
+ ID2= 2 (0119):	75.00	8.090	30.20	229.45
=====				
ID = 3 (0120):	1809.19	176.651	31.10	201.34

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB |

| STANDHYD (0121) | Area (ha)= 27.00
 | ID= 1 DT= 5.0 min | Total Imp(%)= 43.00 Dir. Conn.(%)= 43.00

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	11.61	15.39	
Dep. Storage (mm)=	1.50	1.50	
Average Slope (%)=	0.50	2.00	
Length (m)=	424.26	424.00	
Mannings n =	0.015	0.200	
Max.Eff.Inten.(mm/hr)=	53.00	51.22	
over (min)	10.00	45.00	
Storage Coeff. (min)=	10.51 (ii)	43.78 (ii)	
Unit Hyd. Tpeak (min)=	10.00	45.00	
Unit Hyd. peak (cms)=	0.11	0.03	
			TOTALS
PEAK FLOW (cms)=	1.70	1.72	3.158 (iii)
TIME TO PEAK (hrs)=	30.00	30.58	30.00
RUNOFF VOLUME (mm)=	251.10	215.59	230.86
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	0.99	0.85	0.91

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0123) |
 | 1 + 2 = 3 |

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0120):	1809.19	176.651	31.10	201.34
+ ID2= 2 (0121):	27.00	3.158	30.00	230.86
=====				
ID = 3 (0123):	1836.19	179.380	31.08	201.74

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0134) |
 | 1 + 2 = 3 |

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0123):	1836.19	179.380	31.08	201.74
+ ID2= 2 (0133):	206.50	21.248	31.30	191.72
=====				

ID = 3 (0134): 2042.69 200.339 31.10 200.73

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ROUTE CHN(0135)|
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (23.0) ----->
Distance Elevation Manning
0.00 102.30 0.0500
10.00 100.30 0.0500
24.00 100.30 0.0500 /0.0350 Main Channel
25.00 100.00 0.0350 Main Channel
25.50 100.30 0.0350 /0.0500 Main Channel
40.00 100.30 0.0500
50.00 102.30 0.0500

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.750E+01	0.0	0.12	43.04
0.20	100.20	.300E+02	0.0	0.18	27.12
0.30	100.30	.676E+02	0.1	0.24	20.72
0.43	100.43	.122E+04	0.7	0.18	28.28
0.55	100.55	.241E+04	2.1	0.26	19.20
0.68	100.68	.365E+04	4.0	0.33	15.10
0.80	100.80	.494E+04	6.5	0.39	12.71
0.93	100.93	.628E+04	9.4	0.45	11.13
1.05	101.05	.766E+04	12.8	0.50	9.99
1.18	101.18	.909E+04	16.6	0.55	9.12
1.30	101.30	.106E+05	20.9	0.59	8.44
1.43	101.43	.121E+05	25.6	0.63	7.88
1.55	101.55	.137E+05	30.7	0.67	7.42
1.67	101.67	.153E+05	36.2	0.71	7.03
1.80	101.80	.169E+05	42.2	0.75	6.69
1.92	101.92	.187E+05	48.6	0.78	6.39
2.05	102.05	.204E+05	55.5	0.82	6.13
2.17	102.17	.222E+05	62.8	0.85	5.90
2.30	102.30	.241E+05	70.5	0.88	5.69

**** WARNING: TRAVEL TIME TABLE EXCEEDED

	<---- hydrograph ---->				<-pipe / channel->	
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0134)	2042.69	200.34	31.10	200.73	2.30	0.88
OUTFLOW: ID= 1 (0135)	2042.69	199.65	31.18	199.47	2.30	0.88

**** WARNING: COMPUTATIONS FAILED TO CONVERGE.

```

-----
| ADD HYD ( 0137) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0135): 2042.69 199.647   31.18   199.47
+ ID2= 2 ( 0136):  20.00   2.405    30.58   212.17
=====
ID = 3 ( 0137): 2062.69 201.854   31.18   199.58

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0138) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
-----

```

```

<----- DATA FOR SECTION ( 24.0) ----->
Distance      Elevation      Manning
  0.00         192.00         0.0500
 150.00        190.00         0.0500
 170.00        187.50         0.0500
 190.00        186.00         0.0500
 192.00        185.60         0.0500 /0.0350 Main Channel
 194.00        185.60         0.0350 /0.0500 Main Channel
 196.00        186.00         0.0500
 215.00        187.50         0.0500
 285.00        190.00         0.0500
 300.00        190.50         0.0500

```

```

<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)         (m)      (cu.m.)      (cms)         (m/s)         (min)
0.26  185.86  .127E+04      0.7           0.86          29.24
0.52  186.12  .370E+04      2.7           1.11          22.54
0.77  186.37  .849E+04      7.0           1.24          20.18
1.03  186.63  .159E+05     14.7          1.39          18.00
1.29  186.89  .258E+05     26.6          1.55          16.16
1.55  187.15  .384E+05     43.7          1.71          14.66
1.81  187.41  .536E+05     66.5          1.86          13.43
2.06  187.66  .715E+05     94.6          1.98          12.60
2.32  187.92  .930E+05    130.4         2.10          11.88
2.58  188.18  .118E+06    175.5         2.23          11.21
2.84  188.44  .147E+06    230.6         2.36          10.61
3.09  188.69  .179E+06    296.4         2.48          10.06
3.35  188.95  .215E+06    373.8         2.61           9.58
3.61  189.21  .254E+06    463.6         2.74           9.14
3.87  189.47  .297E+06    566.5         2.86           8.75
4.13  189.73  .344E+06    683.3         2.98           8.39
4.38  189.98  .394E+06    814.7         3.10           8.06

```

4.64	190.24	.451E+06	898.4	2.99	8.37
4.90	190.50	.518E+06	1025.6	2.97	8.42

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0137)	2062.69	201.85	31.18	199.58	2.70	2.29
OUTFLOW: ID= 1 (0138)	2062.69	199.97	31.32	196.26	2.69	2.28

**** WARNING: COMPUTATIONS FAILED TO CONVERGE.

```

-----
| ADD HYD ( 0140) |
| 1 + 2 = 3 |
-----
                AREA    QPEAK    TPEAK    R.V.
                (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0138): 2062.69 199.970  31.32  196.26
+ ID2= 2 ( 0139):  58.00  6.653   30.83  212.17
=====
ID = 3 ( 0140): 2120.69 206.280  31.30  196.63

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0142) |
| 1 + 2 = 3 |
-----
                AREA    QPEAK    TPEAK    R.V.
                (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0140): 2120.69 206.280  31.30  196.63
+ ID2= 2 ( 0141): 116.00 11.422   31.42  192.04
=====
ID = 3 ( 0142): 2236.69 217.682  31.32  195.84

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0143) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
-----

```

```

<----- DATA FOR SECTION ( 25.0) ----->
Distance      Elevation      Manning
   0.00        190.00        0.0500
   55.00        187.50        0.0500
  100.00        186.00        0.0500
  102.00        185.40        0.0500 /0.0350  Main Channel
  104.00        185.40        0.0350 /0.0500  Main Channel
  106.00        186.00        0.0500
  156.00        187.50        0.0500

```

200.00 188.00 0.0500

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.14	185.54	.235E+03	0.1	0.25	45.97
0.27	185.67	.558E+03	0.3	0.37	31.53
0.41	185.81	.968E+03	0.6	0.45	25.73
0.55	185.95	.147E+04	1.1	0.52	22.42
0.68	186.08	.219E+04	1.6	0.50	23.34
0.82	186.22	.369E+04	2.5	0.47	24.93
0.96	186.36	.602E+04	4.0	0.46	25.27
1.09	186.49	.918E+04	6.2	0.47	24.63
1.23	186.63	.132E+05	9.3	0.50	23.52
1.37	186.77	.180E+05	13.5	0.52	22.27
1.51	186.91	.237E+05	18.7	0.55	21.04
1.64	187.04	.301E+05	25.3	0.59	19.88
1.78	187.18	.374E+05	33.1	0.62	18.83
1.92	187.32	.456E+05	42.5	0.65	17.88
2.05	187.45	.546E+05	53.4	0.69	17.03
2.19	187.59	.645E+05	64.8	0.70	16.59
2.33	187.73	.758E+05	77.9	0.72	16.22
2.46	187.86	.886E+05	93.6	0.74	15.78
2.60	188.00	.103E+06	112.0	0.76	15.31

**** WARNING: TRAVEL TIME TABLE EXCEEDED

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0142)	2236.69	217.68	31.32	195.84	2.59	0.76
OUTFLOW: ID= 1 (0143)	2236.69	213.82	31.55	191.18	2.60	0.76

**** WARNING: COMPUTATIONS FAILED TO CONVERGE.

ADD HYD (0145)					
1 + 2 = 3					
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	
ID1= 1 (0143):	2236.69	213.819	31.55	191.18	
+ ID2= 2 (0144):	28.00	3.887	30.08	212.22	
=====					
ID = 3 (0145):	2264.69	215.423	31.53	191.44	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ROUTE CHN(0146)	
IN= 2---> OUT= 1	Routing time step (min)'= 1.00

<----- DATA FOR SECTION (26.0) ----->

Distance	Elevation	Manning	
0.00	190.00	0.0500	
100.00	187.50	0.0500	
170.00	185.00	0.0500	
210.00	183.00	0.0500	
212.00	182.60	0.0500 /0.0350	Main Channel
214.00	182.60	0.0350 /0.0500	Main Channel
216.00	183.00	0.0500	
256.00	185.00	0.0500	
276.00	187.50	0.0500	
350.00	189.50	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.36	182.96	.305E+04	0.6	0.43	86.19
0.73	183.33	.125E+05	2.7	0.47	77.96
1.09	183.69	.335E+05	8.4	0.55	66.33
1.45	184.05	.662E+05	19.5	0.65	56.52
1.82	184.42	.110E+06	37.4	0.74	49.26
2.18	184.78	.166E+06	63.2	0.84	43.81
2.54	185.14	.234E+06	98.7	0.93	39.44
2.91	185.51	.312E+06	145.2	1.02	35.77
3.27	185.87	.400E+06	202.9	1.12	32.86
3.63	186.23	.499E+06	272.7	1.20	30.50
3.99	186.59	.608E+06	355.2	1.28	28.55
4.36	186.96	.728E+06	451.3	1.36	26.89
4.72	187.32	.858E+06	561.8	1.44	25.47
5.08	187.68	.100E+07	668.9	1.47	24.93
5.45	188.05	.116E+07	781.8	1.48	24.81
5.81	188.41	.135E+07	920.9	1.50	24.42
6.17	188.77	.156E+07	1086.6	1.54	23.88
6.54	189.14	.179E+07	1280.0	1.58	23.27
6.90	189.50	.204E+07	1502.3	1.62	22.63

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0145)	2264.69	215.42	31.53	191.44	3.33	1.13
OUTFLOW: ID= 1 (0146)	2264.69	202.75	31.90	177.43	3.26	1.11

***** WARNING: COMPUTATIONS FAILED TO CONVERGE.

| ADD HYD (0148) |
| 1 + 2 = 3 |

AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
-----------	-------------	-------------	-----------


```

ID1= 1 ( 0146): 2264.69 202.745 31.90 177.43
+ ID2= 2 ( 0147): 218.00 21.348 31.58 212.17
=====
ID = 3 ( 0148): 2482.69 223.482 31.87 178.98

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0149)|
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
-----

```

```

<----- DATA FOR SECTION ( 27.0) ----->
Distance      Elevation      Manning
  0.00         190.00         0.0500
 140.00        187.50         0.0500
 230.00        185.00         0.0500
 300.00        183.00         0.0500
 302.00        182.60         0.0500 /0.0350 Main Channel
 304.00        182.60         0.0350 /0.0500 Main Channel
 306.00        183.00         0.0500
 320.00        185.00         0.0500
 345.00        187.50         0.0500
 450.00        189.50         0.0500

```

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.36	182.96	.381E+04	1.0	0.73	62.86
0.73	183.33	.159E+05	4.7	0.81	56.86
1.09	183.69	.432E+05	14.8	0.94	48.61
1.45	184.05	.858E+05	34.5	1.11	41.44
1.82	184.42	.144E+06	66.3	1.27	36.10
2.18	184.78	.217E+06	112.5	1.43	32.09
2.54	185.14	.305E+06	174.6	1.58	29.09
2.91	185.51	.410E+06	255.0	1.71	26.77
3.27	185.87	.531E+06	356.7	1.85	24.82
3.63	186.23	.669E+06	481.7	1.98	23.16
3.99	186.59	.824E+06	632.0	2.11	21.73
4.36	186.96	.995E+06	809.4	2.24	20.50
4.72	187.32	.118E+07	1015.9	2.36	19.42
5.08	187.68	.139E+07	1219.0	2.41	19.02
5.45	188.05	.164E+07	1444.2	2.43	18.88
5.81	188.41	.192E+07	1726.8	2.47	18.53
6.17	188.77	.224E+07	2067.1	2.53	18.08
6.54	189.14	.261E+07	2467.6	2.60	17.60
6.90	189.50	.301E+07	2932.0	2.68	17.09

```

<----- hydrograph -----> <-pipe / channel->
AREA      QPEAK    TPEAK    R.V.    MAX DEPTH  MAX VEL
 (ha)     (cms)    (hrs)    (mm)    (m)        (m/s)

```

INFLOW : ID= 2 (0148) 2482.69 223.48 31.87 178.98 2.76 1.66
 OUTFLOW: ID= 1 (0149) 2482.69 215.20 32.20 166.61 2.72 1.64

**** WARNING: COMPUTATIONS FAILED TO CONVERGE.

```

-----
| ADD HYD ( 0151) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0149): 2482.69 215.195 32.20 166.61
+ ID2= 2 ( 0150): 125.00 14.218 30.92 212.17
=====
ID = 3 ( 0151): 2607.69 223.680 32.13 168.65
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| NASHYD ( 0300) |
| ID= 1 DT= 5.0 min |
-----
Area (ha)= 5.92 Curve Number (CN)= 87.0
Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.37
  
```

Unit Hyd Qpeak (cms)= 0.611

PEAK FLOW (cms)= 0.800 (i)
 TIME TO PEAK (hrs)= 30.083
 RUNOFF VOLUME (mm)= 214.653
 TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.850

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ROUTE CHN( 0306) |
| IN= 2---> OUT= 1 |
-----
          Routing time step (min)'= 5.00
  
```

```

<----- DATA FOR SECTION ( 2.0) ----->
Distance    Elevation    Manning
0.00        101.30        0.0300
3.00        100.70        0.0300
6.00        100.70        0.0300
13.00       100.40        0.0300
17.00       100.30        0.0300 /0.0130 Main Channel
18.00       100.00        0.0130 Main Channel
18.50       100.30        0.0130 /0.0300 Main Channel
22.00       100.40        0.0300
29.00       100.70        0.0300
  
```

32.00	100.70	0.0300
35.00	101.30	0.0300

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.06	100.06	.716E+01	0.0	0.64	20.83
0.12	100.12	.287E+02	0.0	1.01	13.12
0.18	100.18	.645E+02	0.1	1.33	10.01
0.24	100.24	.115E+03	0.2	1.61	8.26
0.30	100.30	.179E+03	0.4	1.86	7.12
0.37	100.37	.417E+03	0.9	1.65	8.03
0.44	100.44	.938E+03	1.7	1.43	9.28
0.51	100.51	.166E+04	3.0	1.42	9.32
0.59	100.59	.257E+04	4.8	1.47	9.00
0.66	100.66	.367E+04	7.1	1.55	8.58
0.73	100.73	.508E+04	9.6	1.51	8.79
0.80	100.80	.677E+04	14.2	1.67	7.96
0.87	100.87	.849E+04	19.5	1.83	7.26
0.94	100.94	.103E+05	25.6	1.98	6.69
1.01	101.01	.121E+05	32.4	2.14	6.21
1.09	101.09	.139E+05	39.9	2.28	5.81
1.16	101.16	.158E+05	48.1	2.42	5.48
1.23	101.23	.177E+05	56.9	2.56	5.19
1.30	101.30	.197E+05	66.5	2.69	4.94

	AREA (ha)	<---- hydrograph ---->			<-pipe / channel->	
		QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0300)	5.92	0.80	30.08	214.65	0.36	1.68
OUTFLOW: ID= 1 (0306)	5.92	0.78	30.25	214.65	0.36	1.69

CALIB			
NASHYD (0301)	Area (ha)=	5.82	Curve Number (CN)= 92.0
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.66	

Unit Hyd Qpeak (cms)= 0.337

PEAK FLOW (cms)= 0.693 (i)
 TIME TO PEAK (hrs)= 30.500
 RUNOFF VOLUME (mm)= 227.317
 TOTAL RAINFALL (mm)= 252.599
 RUNOFF COEFFICIENT = 0.900

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0307)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0301):	5.82	0.693	30.50	227.32
+ ID2= 2 (0306):	5.92	0.781	30.25	214.65
=====				
ID = 3 (0307):	11.74	1.458	30.33	220.93

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
STANDHYD (0302)				
ID= 1 DT= 5.0 min				
Area	(ha)=	11.25		
Total Imp(%)=		75.00	Dir. Conn.(%)=	60.00

		IMPERVIOUS	PERVIOUS (i)	
Surface Area	(ha)=	8.44	2.81	
Dep. Storage	(mm)=	1.00	1.50	
Average Slope	(%)=	0.68	2.00	
Length	(m)=	273.86	40.00	
Mannings n	=	0.013	0.250	
Max.Eff.Inten.(mm/hr)=		53.00	84.21	
over (min)		5.00	15.00	
Storage Coeff. (min)=		6.77 (ii)	14.33 (ii)	
Unit Hyd. Tpeak (min)=		5.00	15.00	
Unit Hyd. peak (cms)=		0.18	0.08	
				TOTALS
PEAK FLOW	(cms)=	0.99	0.65	1.639 (iii)
TIME TO PEAK	(hrs)=	29.92	30.00	30.00
RUNOFF VOLUME	(mm)=	251.60	235.18	245.03
TOTAL RAINFALL	(mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT	=	1.00	0.93	0.97

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 90.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0308)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0302):	11.25	1.639	30.00	245.03

```

+ ID2= 2 ( 0307):    11.74    1.458    30.33    220.93
=====
ID = 3 ( 0308):    22.99    2.977    30.00    232.72

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| NASHYD ( 0303) | Area (ha)= 5.55 Curve Number (CN)= 90.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
-----
| U.H. Tp(hrs)= 0.38

```

Unit Hyd Qpeak (cms)= 0.558

PEAK FLOW (cms)= 0.755 (i)
TIME TO PEAK (hrs)= 30.083
RUNOFF VOLUME (mm)= 222.231
TOTAL RAINFALL (mm)= 252.599
RUNOFF COEFFICIENT = 0.880

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0309) |
| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.
-----
| ID1= 1 ( 0303): | 5.55 0.755 30.08 222.23
+ ID2= 2 ( 0308): | 22.99 2.977 30.00 232.72
=====
ID = 3 ( 0309): | 28.54 3.724 30.00 230.68

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| CALIB |
| NASHYD ( 0304) | Area (ha)= 6.29 Curve Number (CN)= 91.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
-----
| U.H. Tp(hrs)= 0.28

```

Unit Hyd Qpeak (cms)= 0.858

PEAK FLOW (cms)= 0.897 (i)
TIME TO PEAK (hrs)= 30.000
RUNOFF VOLUME (mm)= 224.678
TOTAL RAINFALL (mm)= 252.599
RUNOFF COEFFICIENT = 0.889

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0310)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0304):	6.29	0.897	30.00	224.68
+ ID2= 2 (0309):	28.54	3.724	30.00	230.68
=====				
ID = 3 (0310):	34.83	4.621	30.00	229.60

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	Area (ha)=	2.18
STANDHYD (0305)	Total Imp(%)=	90.00
ID= 1 DT= 5.0 min	Dir. Conn.(%)=	90.00

	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	1.96	0.22	
Dep. Storage (mm)=	1.00	1.50	
Average Slope (%)=	0.96	2.00	
Length (m)=	120.55	40.00	
Mannings n =	0.013	0.250	
Max.Eff.Inten.(mm/hr)=	53.00	52.15	
over (min)	5.00	10.00	
Storage Coeff. (min)=	3.73 (ii)	7.51 (ii)	
Unit Hyd. Tpeak (min)=	5.00	10.00	
Unit Hyd. peak (cms)=	0.25	0.13	
			TOTALS
PEAK FLOW (cms)=	0.29	0.03	0.320 (iii)
TIME TO PEAK (hrs)=	29.83	30.00	29.92
RUNOFF VOLUME (mm)=	251.60	225.73	249.01
TOTAL RAINFALL (mm)=	252.60	252.60	252.60
RUNOFF COEFFICIENT =	1.00	0.89	0.99

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 90.0 Ia = Dep. Storage (Above)
 - (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
 - (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.
-
-

ADD HYD (0311)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0305):	2.18	0.320	29.92	249.01
+ ID2= 2 (0310):	34.83	4.621	30.00	229.60
=====				
ID = 3 (0311):	37.01	4.941	30.00	230.74

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

FINISH

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V V I SSSSS U U A L (v 5.2.2003)
V V I SS U U A A L
V V I SS U U AAAAA L
V V I SS U U A A L
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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 5.2\V02\voin.dat

Output filename:

C:\Users\p001130E\AppData\Local\Civica\XH5\eac855d9-c080-4f8c-adb7-9ddc313622b4\fa907125-1d4c-4380-a0b2-800c5b144dba\sce

Summary filename:

C:\Users\p001130E\AppData\Local\Civica\XH5\eac855d9-c080-4f8c-adb7-9ddc313622b4\fa907125-1d4c-4380-a0b2-800c5b144dba\sce

DATE: 10/18/2019

TIME: 10:28:19

USER:

COMMENTS: _____

** SIMULATION : Run 07 **

| READ STORM |

Filename: C:\Users\p001130E\AppData\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1

| Ptotal=124.80 mm | Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB			
NASHYD (0150)	Area (ha)= 125.00	Curve Number (CN)= 72.0	
ID= 1 DT= 5.0 min	Ia (mm)= 5.00	# of Linear Res.(N)= 4.00	
	U.H. Tp(hrs)= 0.93		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25

0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50

4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 6.374

PEAK FLOW (cms)= 8.330 (i)
 TIME TO PEAK (hrs)= 13.083
 RUNOFF VOLUME (mm)= 65.661
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.526

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50

4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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-----
| CALIB |
| NASHYD ( 0147) | Area (ha)= 218.00 Curve Number (CN)= 72.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 4.00
-----
| U.H. Tp(hrs)= 1.53

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50

2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 6.757

PEAK FLOW (cms)= 9.982 (i)

TIME TO PEAK (hrs)= 13.750
 RUNOFF VOLUME (mm)= 65.661
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.526

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=124.80 mm	Filename: C:\Users\p001130E\AppData Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1 Comments: 50yr 24hr 15min SCS
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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB NASHYD (0144) ID= 1 DT= 5.0 min	Area (ha)= 28.00 Ia (mm)= 5.00 U.H. Tp(hrs)= 0.38	Curve Number (CN)= 72.0 # of Linear Res.(N)= 4.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50

3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 3.494

PEAK FLOW (cms)= 3.574 (i)
 TIME TO PEAK (hrs)= 12.500
 RUNOFF VOLUME (mm)= 65.676
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.526

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25

0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB							
NASHYD (0141)	Area	(ha)= 116.00	Curve Number	(CN)= 60.0			
ID= 1 DT= 5.0 min	Ia	(mm)= 5.00	# of Linear Res.(N)= 4.00				
	U.H. Tp(hrs)=	1.32					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25

1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50

5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 4.167

PEAK FLOW (cms)= 4.380 (i)
 TIME TO PEAK (hrs)= 13.583
 RUNOFF VOLUME (mm)= 49.638
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.398

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=124.80 mm	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1 Comments: 50yr 24hr 15min SCS
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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50

5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB							
NASHYD (0139)	Area	(ha)=	58.00	Curve Number	(CN)=	72.0	
ID= 1 DT= 5.0 min	Ia	(mm)=	5.00	# of Linear Res.(N)=	4.00		
	U.H. Tp	(hrs)=	0.90				

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50

2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 3.056

PEAK FLOW (cms)= 3.957 (i)
 TIME TO PEAK (hrs)= 13.083
 RUNOFF VOLUME (mm)= 65.661
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.526

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| READ STORM |
|           |
| Ptotal=124.80 mm |
|           |
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Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdcl75f1
Comments: 50yr 24hr 15min SCS

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB |
| NASHYD ( 0136) |
| ID= 1 DT= 5.0 min |
|           |
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Area      (ha)= 20.00   Curve Number (CN)= 72.0
Ia        (mm)=  5.00   # of Linear Res.(N)= 4.00
U.H. Tp(hrs)=  0.75

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50

4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 1.265

PEAK FLOW (cms)= 1.560 (i)
 TIME TO PEAK (hrs)= 12.917
 RUNOFF VOLUME (mm)= 65.662
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.526

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50

2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB			
NASHYD (0132)	Area (ha)=	10.00	Curve Number (CN)= 75.0
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.50	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25

1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50

5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.764

PEAK FLOW (cms)= 0.952 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 70.189
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.562

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB |
| NASHYD ( 0129) | Area (ha)= 14.50 Curve Number (CN)= 75.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.48

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50

3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 1.154

PEAK FLOW (cms)= 1.426 (i)

TIME TO PEAK (hrs)= 12.583

RUNOFF VOLUME (mm)= 70.188

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.562

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM

Filename: C:\Users\p001130E\AppData
Local\Temp\

| Ptotal=124.80 mm |

f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | NASHYD (0125) |
 | ID= 1 DT= 5.0 min |

Area (ha)= 105.00 Curve Number (CN)= 60.0
 Ia (mm)= 5.00 # of Linear Res.(N)= 4.00
 U.H. Tp(hrs)= 1.18

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25

0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50

4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 4.220

PEAK FLOW (cms)= 4.315 (i)

TIME TO PEAK (hrs)= 13.417

RUNOFF VOLUME (mm)= 49.638

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.398

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50

3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB |
| NASHYD ( 0124) | Area (ha)= 77.00 Curve Number (CN)= 72.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 4.00
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| U.H. Tp(hrs)= 1.01

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50

2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 3.615

PEAK FLOW (cms)= 4.824 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 65.661
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.526

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0126)|
| 1 + 2 = 3 |
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          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0124):  77.00    4.824    13.17    65.66
+ ID2= 2 ( 0125): 105.00    4.315    13.42    49.64
=====
ID = 3 ( 0126):  182.00    9.058    13.25    56.42
  
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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| ROUTE CHN( 0127)|
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
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<----- DATA FOR SECTION ( 20.0) ----->
Distance      Elevation      Manning
   0.00        197.50        0.0500
  160.00        195.00        0.0500
  175.00        194.00        0.0500
  177.00        193.60        0.0500 /0.0350  Main Channel
  178.00        193.60        0.0350 /0.0500  Main Channel
  180.00        194.00        0.0500
  195.00        195.00        0.0500
  250.00        197.50        0.0500
  
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<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)        (m)        (cu.m.)      (cms)          (m/s)        (min)
0.21      193.81      .146E+03      0.1            0.35         16.44
0.41      194.01      .439E+03      0.6            0.48         12.10
0.62      194.22      .104E+04      1.5            0.51         11.53
0.82      194.42      .209E+04      3.4            0.57         10.32
1.03      194.63      .358E+04      6.5            0.64          9.18
1.23      194.83      .551E+04     11.1            0.71          8.24
1.44      195.04      .789E+04     17.1            0.76          7.71
1.64      195.24      .113E+05     24.2            0.75          7.77
1.85      195.45      .159E+05     35.5            0.78          7.47
2.05      195.65      .218E+05     51.5            0.83          7.06
2.26      195.86      .290E+05     72.7            0.88          6.65
2.46      196.06      .375E+05     99.9            0.93          6.25
  
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2.67	196.27	.472E+05	133.6	0.99	5.89
2.87	196.47	.582E+05	174.3	1.05	5.56
3.08	196.68	.704E+05	222.8	1.11	5.27
3.28	196.88	.839E+05	279.6	1.17	5.00
3.49	197.09	.987E+05	345.1	1.22	4.77
3.69	197.29	.115E+06	419.9	1.28	4.55
3.90	197.50	.132E+06	504.6	1.34	4.36

		AREA	<----- hydrograph ----->			<-pipe / channel->	
		(ha)	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
			(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0126)	182.00	9.06	13.25	56.42	1.14	0.67
OUTFLOW:	ID= 1 (0127)	182.00	8.86	13.40	56.42	1.13	0.67

| ROUTE CHN(0128) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (21.0) ----->			
Distance	Elevation	Manning	
0.00	102.30	0.0500	
10.00	100.30	0.0500	
12.00	100.30	0.0500 /0.0350	Main Channel
12.50	100.00	0.0350	Main Channel
13.50	100.30	0.0350 /0.0500	Main Channel
15.00	100.30	0.0500	
25.00	102.30	0.0500	

<----- TRAVEL TIME TABLE ----->					
DEPTH	ELEV	VOLUME	FLOW RATE	VELOCITY	TRAV.TIME
(m)	(m)	(cu.m.)	(cms)	(m/s)	(min)
0.10	100.10	.625E+01	0.0	0.18	22.69
0.20	100.20	.250E+02	0.0	0.29	14.29
0.30	100.30	.563E+02	0.1	0.38	10.91
0.43	100.43	.232E+03	0.4	0.38	10.95
0.55	100.55	.447E+03	0.8	0.47	8.85
0.68	100.68	.701E+03	1.5	0.55	7.55
0.80	100.80	.994E+03	2.5	0.62	6.69
0.93	100.93	.133E+04	3.6	0.69	6.06
1.05	101.05	.170E+04	5.1	0.75	5.57
1.18	101.18	.211E+04	6.8	0.80	5.19
1.30	101.30	.256E+04	8.7	0.86	4.87
1.43	101.43	.304E+04	11.0	0.91	4.60
1.55	101.55	.357E+04	13.6	0.95	4.37
1.67	101.67	.414E+04	16.5	1.00	4.17
1.80	101.80	.474E+04	19.8	1.04	3.99
1.92	101.92	.539E+04	23.4	1.09	3.83
2.05	102.05	.607E+04	27.4	1.13	3.69
2.17	102.17	.679E+04	31.8	1.17	3.56

2.30 102.30 .756E+04 36.6 1.21 3.44

		<----- hydrograph ----->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0127)	182.00	8.86	13.40	56.42	1.31	0.86
OUTFLOW: ID= 1 (0128)	182.00	8.79	13.47	56.42	1.30	0.86

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-----
| ADD HYD ( 0130) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0128):  182.00   8.786   13.47   56.42
+ ID2= 2 ( 0129):   14.50   1.426   12.58   70.19
=====
ID = 3 ( 0130):  196.50   9.383   13.38   57.43

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ROUTE CHN( 0131) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
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<----- DATA FOR SECTION ( 22.0) ----->
Distance      Elevation      Manning
   0.00        102.30        0.0500
  10.00        100.30        0.0500
  12.00        100.30        0.0500 /0.0350  Main Channel
  12.50        100.00        0.0350          Main Channel
  13.50        100.30        0.0350 /0.0500  Main Channel
  15.00        100.30        0.0500
  25.00        102.30        0.0500

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<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)        (m)        (cu.m.)      (cms)          (m/s)         (min)
0.10      100.10     .130E+02     0.0            0.16          54.13
0.20      100.20     .520E+02     0.0            0.25          34.10
0.30      100.30     .117E+03     0.1            0.33          26.02
0.43      100.43     .483E+03     0.3            0.33          26.14
0.55      100.55     .930E+03     0.7            0.41          21.10
0.68      100.68     .146E+04     1.3            0.48          18.02
0.80      100.80     .207E+04     2.2            0.54          15.95
0.93      100.93     .276E+04     3.2            0.60          14.45
1.05      101.05     .353E+04     4.4            0.65          13.30
1.18      101.18     .438E+04     5.9            0.70          12.38
1.30      101.30     .532E+04     7.6            0.75          11.62
1.43      101.43     .633E+04     9.6            0.79          10.98

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1.55	101.55	.743E+04	11.9	0.83	10.43
1.67	101.67	.861E+04	14.4	0.87	9.95
1.80	101.80	.987E+04	17.3	0.91	9.52
1.92	101.92	.112E+05	20.4	0.95	9.15
2.05	102.05	.126E+05	23.9	0.98	8.81
2.17	102.17	.141E+05	27.7	1.02	8.50
2.30	102.30	.157E+05	31.9	1.05	8.22

		AREA	<----- hydrograph ----->			<-pipe / channel->	
		(ha)	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
			(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0130)	196.50	9.38	13.38	57.43	1.41	0.78
OUTFLOW:	ID= 1 (0131)	196.50	9.08	13.55	57.43	1.39	0.78

ADD HYD (0133)					
1 + 2 = 3					

		AREA	QPEAK	TPEAK	R.V.
		(ha)	(cms)	(hrs)	(mm)
ID1=	1 (0131):	196.50	9.081	13.55	57.43
+	ID2= 2 (0132):	10.00	0.952	12.67	70.19
=====					
ID =	3 (0133):	206.50	9.454	13.52	58.05

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	
Ptotal=124.80 mm	

Filename:	C:\Users\p001130E\AppData\Local\Temp\
	f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Comments:	50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50

3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB |
| NASHYD ( 0096) | Area (ha)= 29.00 Curve Number (CN)= 72.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
-----
| U.H. Tp(hrs)= 0.47

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50

2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 2.357

PEAK FLOW (cms)= 2.694 (i)
 TIME TO PEAK (hrs)= 12.583
 RUNOFF VOLUME (mm)= 65.657
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.526

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM | Filename: C:\Users\p001130E\AppData
 | | ata\Local\Temp\
 | | f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Ptotal=124.80 mm | Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 CALIB |
 NASHYD (0076) | Area (ha)= 27.66 Curve Number (CN)= 82.0
 ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00

 U.H. Tp(hrs)= 0.55

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50

3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 1.921

PEAK FLOW (cms)= 2.911 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 81.749
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.655

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25

0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB							
NASHYD (0075)	Area (ha)=	22.91	Curve Number (CN)=	82.0			
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	0.72					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25

1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50

5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 1.215

PEAK FLOW (cms)= 1.978 (i)

TIME TO PEAK (hrs)= 12.833

RUNOFF VOLUME (mm)= 81.751

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.655

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0077) |
| 1 + 2 = 3 |
-----
| AREA QPEAK TPEAK R.V. |
| (ha) (cms) (hrs) (mm) |
| ID1= 1 ( 0075): 22.91 1.978 12.83 81.75 |
| + ID2= 2 ( 0076): 27.66 2.911 12.67 81.75 |
|=====|
| ID = 3 ( 0077): 50.57 4.825 12.75 81.75 |

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| READ STORM |
| |
| Ptotal=124.80 mm |
-----
| Filename: C:\Users\p001130E\AppData |
| ata\Local\Temp\ |
| f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1 |
| Comments: 50yr 24hr 15min SCS |

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50

2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | STANDHYD (0078) |
ID= 1 DT= 5.0 min

Area (ha)= 9.99
 Total Imp(%)= 37.00 Dir. Conn.(%)= 4.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	3.70	6.29
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	0.50
Length (m)=	258.07	10.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25

1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50

5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 196.74
over (min) 5.00 10.00
Storage Coeff. (min)= 4.69 (ii) 8.24 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.22 0.13

TOTALS

PEAK FLOW (cms)= 0.16 2.69 2.855 (iii)
TIME TO PEAK (hrs)= 12.25 12.25 12.25
RUNOFF VOLUME (mm)= 123.80 91.18 92.49
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.73 0.74

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0079)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0077):	50.57	4.825	12.75	81.75
+ ID2= 2 (0078):	9.99	2.855	12.25	92.49
=====				
ID = 3 (0079):	60.56	5.593	12.33	83.52

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(5803)	OVERFLOW IS OFF			
IN= 2---> OUT= 1	OUTFLOW	STORAGE	OUTFLOW	STORAGE
DT= 5.0 min	(cms)	(ha.m.)	(cms)	(ha.m.)
	0.0000	0.0000	0.0530	0.4600

0.0220	0.0770	0.0590	0.5900
0.0310	0.1530	1.1700	0.7830
0.0380	0.2300	3.0000	1.0330
0.0440	0.3070	5.1000	1.2830
0.0490	0.3830	8.6700	1.5310

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0079)	60.560	5.593	12.33	83.52
OUTFLOW: ID= 1 (5803)	60.560	4.696	13.00	83.51

PEAK FLOW REDUCTION [Qout/Qin](%)= 83.96
 TIME SHIFT OF PEAK FLOW (min)= 40.00
 MAXIMUM STORAGE USED (ha.m.)= 1.2350

READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB |
| NASHYD ( 0202) | Area (ha)= 2.14 Curve Number (CN)= 80.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
-----
| U.H. Tp(hrs)= 0.28

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50

3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.292

PEAK FLOW (cms)= 0.348 (i)

TIME TO PEAK (hrs)= 12.417

RUNOFF VOLUME (mm)= 78.258

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.627

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ADD HYD (0228) |

1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0202):	2.14	0.348	12.42	78.26
+ ID2= 2 (5803):	60.56	4.696	13.00	83.51
=====				
ID = 3 (0228):	62.70	4.802	13.00	83.33

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ROUTE CHN(0229)|
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00

<----- DATA FOR SECTION (12.0) ----->

Distance	Elevation	Manning	
0.00	102.30	0.0500	
10.00	100.30	0.0500	
15.00	100.30	0.0500 / 0.0350	Main Channel
15.50	100.00	0.0350	Main Channel
16.50	100.30	0.0350 / 0.0500	Main Channel
20.00	100.30	0.0500	
30.00	102.30	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.348E+02	0.0	0.28	82.87
0.20	100.20	.139E+03	0.0	0.44	52.21
0.30	100.30	.313E+03	0.1	0.58	39.84
0.43	100.43	.216E+04	0.8	0.50	46.49
0.55	100.55	.423E+04	2.0	0.67	34.74
0.68	100.68	.651E+04	3.8	0.81	28.50
0.80	100.80	.901E+04	6.1	0.94	24.64
0.93	100.93	.117E+05	8.9	1.05	21.98
1.05	101.05	.147E+05	12.2	1.16	20.01
1.18	101.18	.178E+05	16.1	1.25	18.48
1.30	101.30	.212E+05	20.5	1.34	17.25
1.43	101.43	.248E+05	25.4	1.43	16.23
1.55	101.55	.286E+05	31.0	1.51	15.37
1.67	101.67	.326E+05	37.1	1.59	14.63
1.80	101.80	.368E+05	43.9	1.66	13.98
1.92	101.92	.413E+05	51.3	1.73	13.41
2.05	102.05	.460E+05	59.4	1.80	12.90
2.17	102.17	.508E+05	68.1	1.86	12.44
2.30	102.30	.560E+05	77.6	1.93	12.02

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0228)	62.70	4.80	13.00	83.33	0.73	0.86
OUTFLOW: ID= 1 (0229)	62.70	4.10	13.42	83.33	0.69	0.83

 | READ STORM |
Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdcl75f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | NASHYD (0201) |
ID= 1 DT= 5.0 min

Area (ha)= 11.68 Curve Number (CN)= 82.0
 Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.87

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
------	------	------	------	------	------	------	------

hrs	mm/hr	hrs	mm/hr	'	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25	
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25	
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25	
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25	
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25	
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25	
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25	
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25	
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25	
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25	
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25	
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25	
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25	
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25	
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25	
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25	
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25	
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25	
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25	
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25	
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25	
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25	
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25	
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25	
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50	
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50	
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50	
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50	
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50	
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50	
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50	
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50	
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50	
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50	
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50	
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50	
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50	
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50	
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50	
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50	
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50	
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50	
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50	
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50	
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50	
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50	
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50	
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50	
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50	
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50	

4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.513

PEAK FLOW (cms)= 0.876 (i)
 TIME TO PEAK (hrs)= 13.000
 RUNOFF VOLUME (mm)= 81.751
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.655

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50

2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB			
NASHYD (0204)	Area (ha)=	12.75	Curve Number (CN)= 80.0
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	1.30	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25

1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50

5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.375

PEAK FLOW (cms)= 0.674 (i)

TIME TO PEAK (hrs)= 13.500

RUNOFF VOLUME (mm)= 78.298

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.627

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0225)					
1 + 2 = 3					

	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0201):	11.68	0.876	13.00	81.75	
+ ID2= 2 (0204):	12.75	0.674	13.50	78.30	
=====					
ID = 3 (0225):	24.43	1.499	13.17	79.95	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData
	ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50

3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB |
| NASHYD ( 0203) | Area (ha)= 4.17 Curve Number (CN)= 81.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.31

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50

2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.514

PEAK FLOW (cms)= 0.652 (i)
 TIME TO PEAK (hrs)= 12.417
 RUNOFF VOLUME (mm)= 79.982
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.641

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bd175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB	Area (ha)= 22.56
STANDHYD (0200)	Total Imp(%)= 63.00 Dir. Conn.(%)= 63.00
ID= 1 DT= 5.0 min	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	14.21	8.35
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	0.90	2.00
Length	(m)=	387.81	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50

3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)=	152.76	112.74
over (min)	5.00	10.00
Storage Coeff. (min)=	5.02 (ii)	9.83 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.21	0.11

PEAK FLOW (cms)=	5.80	1.87	7.668 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	123.80	76.62	106.34
TOTAL RAINFALL (mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT =	0.99	0.61	0.85

TOTALS

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 79.0 Ia = Dep. Storage (Above)

- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| RESERVOIR( 0292) |
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
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OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.3800	0.8500
0.0020	0.3900	1.0200	1.2400
0.0900	0.6400	*****	1.2500

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0200)	22.560	7.668	12.25	106.34
OUTFLOW: ID= 1 (0292)	22.560	4.494	12.42	92.28

PEAK FLOW REDUCTION [Qout/Qin](%)= 58.61
 TIME SHIFT OF PEAK FLOW (min)= 10.00
 MAXIMUM STORAGE USED (ha.m.)= 1.2684

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-----
| ADD HYD ( 0226) |
| 1 + 2 = 3      |
-----

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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0203):	4.17	0.652	12.42	79.98
+ ID2= 2 (0292):	22.56	4.494	12.42	92.28
=====				
ID = 3 (0226):	26.73	5.146	12.42	90.37

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ADD HYD ( 0227) |
| 1 + 2 = 3      |
-----

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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0225):	24.43	1.499	13.17	79.95
+ ID2= 2 (0226):	26.73	5.146	12.42	90.37
=====				
ID = 3 (0227):	51.16	5.909	12.42	85.39

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ADD HYD ( 0184) |
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1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0227):	51.16	5.909	12.42	85.39
+ ID2= 2 (0229):	62.70	4.105	13.42	83.33
=====				
ID = 3 (0184):	113.86	6.634	13.25	84.25

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ROUTE CHN(0230)|
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00

<----- DATA FOR SECTION (12.0) ----->

Distance	Elevation	Manning	
0.00	102.30	0.0500	
10.00	100.30	0.0500	
15.00	100.30	0.0500 / 0.0350	Main Channel
15.50	100.00	0.0350	Main Channel
16.50	100.30	0.0350 / 0.0500	Main Channel
20.00	100.30	0.0500	
30.00	102.30	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.318E+02	0.0	0.25	84.05
0.20	100.20	.127E+03	0.0	0.40	52.95
0.30	100.30	.286E+03	0.1	0.52	40.41
0.43	100.43	.197E+04	0.7	0.45	47.15
0.55	100.55	.386E+04	1.8	0.60	35.23
0.68	100.68	.594E+04	3.4	0.73	28.91
0.80	100.80	.822E+04	5.5	0.85	24.99
0.93	100.93	.107E+05	8.0	0.95	22.29
1.05	101.05	.134E+05	11.0	1.04	20.30
1.18	101.18	.163E+05	14.5	1.13	18.75
1.30	101.30	.193E+05	18.4	1.21	17.50
1.43	101.43	.226E+05	22.9	1.29	16.46
1.55	101.55	.261E+05	27.9	1.36	15.59
1.67	101.67	.298E+05	33.4	1.43	14.83
1.80	101.80	.336E+05	39.5	1.49	14.18
1.92	101.92	.377E+05	46.2	1.56	13.60
2.05	102.05	.420E+05	53.5	1.62	13.08
2.17	102.17	.464E+05	61.3	1.68	12.62
2.30	102.30	.511E+05	69.8	1.74	12.19

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0184)	113.86	6.63	13.25	84.25	0.86	0.89
OUTFLOW: ID= 1 (0230)	113.86	6.17	13.58	84.25	0.83	0.87

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-----
| READ STORM |
| Ptotal=124.80 mm |
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Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Comments: 50yr 24hr 15min SCS

```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB |
| NASHYD ( 0205) |
| ID= 1 DT= 5.0 min |
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Area (ha)= 11.24 Curve Number (CN)= 80.0
Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 1.00

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
------	------	------	------	------	------	------	------

hrs	mm/hr	hrs	mm/hr	'	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25	
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25	
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25	
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25	
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25	
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25	
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25	
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25	
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25	
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25	
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25	
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25	
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25	
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25	
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25	
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25	
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25	
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25	
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25	
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25	
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25	
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25	
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25	
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25	
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50	
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50	
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50	
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50	
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50	
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50	
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50	
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50	
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50	
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50	
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50	
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50	
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50	
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50	
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50	
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50	
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50	
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50	
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50	
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50	
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50	
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50	
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50	
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50	
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50	
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50	

4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.429

PEAK FLOW (cms)= 0.725 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 78.298
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.627

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50

2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB							
NASHYD (0206)	Area (ha)=	9.38	Curve Number (CN)=	83.0			
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	0.92					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25

1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50

5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.389

PEAK FLOW (cms)= 0.691 (i)

TIME TO PEAK (hrs)= 13.083

RUNOFF VOLUME (mm)= 83.527

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.669

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
Local\Temp\
f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | STANDHYD (0207) |
ID= 1 DT= 5.0 min

Area (ha)= 27.53
 Total Imp(%)= 77.00 Dir. Conn.(%)= 62.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	21.20	6.33
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.51	2.00
Length (m)=	428.41	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50

2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)=	152.76	217.05
over (min)	5.00	15.00
Storage Coeff. (min)=	6.32 (ii)	10.32 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.19	0.09

			TOTALS
PEAK FLOW (cms)=	6.72	2.59	9.051 (iii)
TIME TO PEAK (hrs)=	12.25	12.33	12.25

RUNOFF VOLUME	(mm)=	123.80	93.16	112.16
TOTAL RAINFALL	(mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT	=	0.99	0.75	0.90

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| RESERVOIR( 0293) |
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
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OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.4700	1.2700
0.0030	0.5800	1.2400	1.8600
0.1100	0.9600	*****	1.8700

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0207)	27.530	9.051	12.25	112.16
OUTFLOW: ID= 1 (0293)	27.530	2.228	12.75	94.87

PEAK FLOW REDUCTION [Qout/Qin](%)= 24.62
 TIME SHIFT OF PEAK FLOW (min)= 30.00
 MAXIMUM STORAGE USED (ha.m.)= 1.8689

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-----
| ADD HYD ( 0231) |
| 1 + 2 = 3       |
-----

```

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0206):	9.38	0.691	13.08	83.53
+ ID2= 2 (0293):	27.53	2.228	12.75	94.87
=====				
ID = 3 (0231):	36.91	2.845	12.75	91.99

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ADD HYD ( 0232) |
| 1 + 2 = 3       |
-----

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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0205):	11.24	0.725	13.17	78.30
+ ID2= 2 (0231):	36.91	2.845	12.75	91.99
=====				

ID = 3 (0232): 48.15 3.457 12.75 88.79

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0185)
1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0230):	113.86	6.166	13.58	84.25
+ ID2= 2 (0232):	48.15	3.457	12.75	88.79
<hr/>				
ID = 3 (0185):	162.01	8.544	13.50	85.60

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM

Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
ata\Local\Temp\
f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | STANDHYD (0083) |
ID= 1 DT= 5.0 min

Area (ha)= 16.00
 Total Imp(%)= 43.00 Dir. Conn.(%)= 43.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	6.88	9.12
Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	337.00	337.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50

2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 56.08
 over (min) 5.00 35.00
 Storage Coeff. (min)= 6.00 (ii) 33.94 (ii)
 Unit Hyd. Tpeak (min)= 5.00 35.00
 Unit Hyd. peak (cms)= 0.19 0.03

TOTALS
 PEAK FLOW (cms)= 2.73 0.82 3.091 (iii)
 TIME TO PEAK (hrs)= 12.25 12.67 12.25

RUNOFF VOLUME	(mm)=	123.30	68.45	92.04
TOTAL RAINFALL	(mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT	=	0.99	0.55	0.74

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| ROUTE CHN( 0084)|
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
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<----- DATA FOR SECTION ( 10.0) ----->
Distance      Elevation      Manning
  0.00         197.50         0.0500
 160.00        195.00         0.0500
 175.00        194.00         0.0500
 177.00        193.60        0.0500 /0.0350 Main Channel
 178.00        193.60        0.0350 /0.0500 Main Channel
 180.00        194.00         0.0500
 195.00        195.00         0.0500
 250.00        197.50         0.0500

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<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)         (m)        (cu.m.)      (cms)          (m/s)         (min)
0.21  193.81  .873E+03     0.1            0.35          98.61
0.41  194.01  .263E+04     0.6            0.48          72.59
0.62  194.22  .625E+04     1.5            0.51          69.17
0.82  194.42  .125E+05     3.4            0.57          61.93
1.03  194.63  .215E+05     6.5            0.64          55.09
1.23  194.83  .330E+05    11.1           0.71          49.43
1.44  195.04  .473E+05    17.1           0.76          46.24
1.64  195.24  .676E+05    24.2           0.75          46.63
1.85  195.45  .955E+05    35.5           0.78          44.82
2.05  195.65  .131E+06    51.5           0.83          42.39
2.26  195.86  .174E+06    72.7           0.88          39.88
2.46  196.06  .225E+06    99.9           0.93          37.50
2.67  196.27  .283E+06   133.6          0.99          35.32
2.87  196.47  .349E+06   174.3          1.05          33.35
3.08  196.68  .422E+06   222.8          1.11          31.59
3.28  196.88  .504E+06   279.6          1.17          30.02
3.49  197.09  .592E+06   345.1          1.22          28.60
3.69  197.29  .689E+06   419.9          1.28          27.33
3.90  197.50  .793E+06   504.6          1.34          26.18

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<----- hydrograph -----> <-pipe / channel->

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0083)	16.00	3.09	12.25	92.04	0.79	0.56
OUTFLOW: ID= 1 (0084)	16.00	0.95	12.80	92.00	0.49	0.49

 | ADD HYD (0085) |
 | 1 + 2 = 3 |

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0185):	162.01	8.544	13.50	85.60
+ ID2= 2 (0084):	16.00	0.952	12.80	92.00
=====				
ID = 3 (0085):	178.01	9.343	13.42	81.15

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | READ STORM |
 | Ptotal=124.80 mm |

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		

6.00	2.00	12.25	152.76	18.50	2.25
6.25	2.00	12.50	17.97	18.75	2.25

 | CALIB
 | STANDHYD (0086)
 | ID= 1 DT= 5.0 min |

Area (ha)= 130.00
 Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	97.50	32.50
Dep. Storage (mm)=	1.50	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	930.95	927.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50

2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 34.45
 over (min) 10.00 75.00
 Storage Coeff. (min)= 11.03 (ii) 73.36 (ii)
 Unit Hyd. Tpeak (min)= 10.00 75.00
 Unit Hyd. peak (cms)= 0.10 0.02

				TOTALS
PEAK FLOW	(cms)=	30.05	1.68	30.476 (iii)
TIME TO PEAK	(hrs)=	12.25	13.33	12.25
RUNOFF VOLUME	(mm)=	123.30	68.45	109.59
TOTAL RAINFALL	(mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT	=	0.99	0.55	0.88

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| RESERVOIR( 5008) |
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
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OVERFLOW IS OFF

OUTFLOW	STORAGE	OUTFLOW	STORAGE
(cms)	(ha.m.)	(cms)	(ha.m.)
0.0000	0.0001	3.3700	6.2000
0.4800	3.8000	4.3200	6.9000
1.4000	4.7000	5.3800	7.5000
2.2000	5.4000	10.0000	7.6000

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0086)	130.000	30.476	12.25	109.59
OUTFLOW: ID= 1 (5008)	130.000	5.273	13.00	109.54

PEAK FLOW REDUCTION [Qout/Qin](%)= 17.30
 TIME SHIFT OF PEAK FLOW (min)= 45.00
 MAXIMUM STORAGE USED (ha.m.)= 7.4397

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| ROUTE CHN( 0088) |
| IN= 2---> OUT= 1 |
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Routingtime step (min)'= 1.00

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<----- DATA FOR SECTION ( 11.0) ----->
Distance      Elevation      Manning
  0.00         197.50         0.0500
 160.00        195.00         0.0500
 175.00        194.00         0.0500
 177.00        193.60         0.0500 /0.0350 Main Channel
 178.00        193.60         0.0350 /0.0500 Main Channel
 180.00        194.00         0.0500
 195.00        195.00         0.0500
 250.00        197.50         0.0500

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<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.21	193.81	.374E+03	0.1	0.35	42.26
0.41	194.01	.113E+04	0.6	0.48	31.11
0.62	194.22	.268E+04	1.5	0.51	29.65
0.82	194.42	.537E+04	3.4	0.57	26.54
1.03	194.63	.919E+04	6.5	0.64	23.61
1.23	194.83	.142E+05	11.1	0.71	21.18
1.44	195.04	.203E+05	17.1	0.76	19.82
1.64	195.24	.290E+05	24.2	0.75	19.98
1.85	195.45	.409E+05	35.5	0.78	19.21
2.05	195.65	.561E+05	51.5	0.83	18.17
2.26	195.86	.746E+05	72.7	0.88	17.09
2.46	196.06	.963E+05	99.9	0.93	16.07
2.67	196.27	.121E+06	133.6	0.99	15.14
2.87	196.47	.150E+06	174.3	1.05	14.29
3.08	196.68	.181E+06	222.8	1.11	13.54
3.28	196.88	.216E+06	279.6	1.17	12.86
3.49	197.09	.254E+06	345.1	1.22	12.26
3.69	197.29	.295E+06	419.9	1.28	11.71
3.90	197.50	.340E+06	504.6	1.34	11.22

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (5008)	130.00	5.27	13.00	109.54	0.95	0.61
OUTFLOW: ID= 1 (0088)	130.00	4.85	13.65	88.25	0.92	0.60

**** WARNING : THE HYD WAS CUT TO 2000 POINTS

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0085):	178.01	9.343	13.42	81.15
+ ID2= 2 (0088):	130.00	4.855	13.65	88.25
=====				
ID = 3 (0089):	308.01	14.163	13.50	84.15

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN

hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | STANDHYD (0090) |
 | ID= 1 DT= 5.0 min |

Area (ha)= 24.00
 Total Imp(%)= 43.00 Dir. Conn.(%)= 43.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	10.32	13.68
Dep. Storage (mm)=	1.50	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	400.00	400.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25

0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50

4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 49.87
over (min) 5.00 40.00
Storage Coeff. (min)= 6.65 (ii) 39.11 (ii)
Unit Hyd. Tpeak (min)= 5.00 40.00
Unit Hyd. peak (cms)= 0.18 0.03

TOTALS
4.460 (iii)
12.25
92.04
124.80
0.74

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0091)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0089):	308.01	14.163	13.50	84.15
+ ID2= 2 (0090):	24.00	4.460	12.25	92.04
=====				
ID = 3 (0091):	332.01	14.983	13.42	84.72

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | ROUTE CHN(0092)|
 | IN= 2---> OUT= 1 |

Routing time step (min)'= 1.00

<----- DATA FOR SECTION (12.0) ----->
 Distance Elevation Manning
 0.00 102.30 0.0500
 10.00 100.30 0.0500
 15.00 100.30 0.0500 /0.0350 Main Channel
 15.50 100.00 0.0350 Main Channel
 16.50 100.30 0.0350 /0.0500 Main Channel
 20.00 100.30 0.0500
 30.00 102.30 0.0500

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.125E+02	0.0	0.18	45.37
0.20	100.20	.500E+02	0.0	0.29	28.58
0.30	100.30	.113E+03	0.1	0.38	21.81
0.43	100.43	.777E+03	0.5	0.33	25.45
0.55	100.55	.152E+04	1.3	0.44	19.02
0.68	100.68	.234E+04	2.5	0.53	15.61
0.80	100.80	.324E+04	4.0	0.62	13.49
0.93	100.93	.421E+04	5.8	0.69	12.03
1.05	101.05	.527E+04	8.0	0.76	10.96
1.18	101.18	.640E+04	10.5	0.82	10.12
1.30	101.30	.761E+04	13.4	0.88	9.44
1.43	101.43	.890E+04	16.7	0.94	8.89
1.55	101.55	.103E+05	20.3	0.99	8.41
1.67	101.67	.117E+05	24.4	1.04	8.01
1.80	101.80	.132E+05	28.8	1.09	7.65
1.92	101.92	.148E+05	33.7	1.14	7.34
2.05	102.05	.165E+05	39.0	1.18	7.06
2.17	102.17	.183E+05	44.7	1.22	6.81
2.30	102.30	.201E+05	50.9	1.27	6.58

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0091)	332.01	14.98	13.42	84.72	1.36	0.91
OUTFLOW: ID= 1 (0092)	332.01	14.82	13.58	84.50	1.35	0.90

 | ROUTE CHN(0093)|
 | IN= 2---> OUT= 1 |

Routing time step (min)'= 1.00

<----- DATA FOR SECTION (13.0) ----->
 Distance Elevation Manning

0.00	102.30	0.0500	
10.00	100.30	0.0500	
39.25	100.30	0.0500 / 0.0350	Main Channel
40.00	100.00	0.0350	Main Channel
40.75	100.30	0.0350 / 0.0500	Main Channel
70.00	100.30	0.0500	
80.00	102.30	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.138E+02	0.0	0.18	49.67
0.20	100.20	.550E+02	0.0	0.29	31.29
0.30	100.30	.124E+03	0.1	0.38	23.94
0.43	100.43	.429E+04	2.1	0.27	34.53
0.55	100.55	.855E+04	6.3	0.40	22.65
0.68	100.68	.129E+05	12.2	0.52	17.57
0.80	100.80	.173E+05	19.7	0.63	14.66
0.93	100.93	.218E+05	28.5	0.72	12.74
1.05	101.05	.264E+05	38.7	0.81	11.37
1.18	101.18	.311E+05	50.2	0.89	10.33
1.30	101.30	.359E+05	62.8	0.96	9.52
1.43	101.43	.407E+05	76.7	1.04	8.85
1.55	101.55	.457E+05	91.7	1.10	8.30
1.67	101.67	.507E+05	107.8	1.17	7.83
1.80	101.80	.558E+05	125.1	1.23	7.43
1.92	101.92	.610E+05	143.5	1.29	7.09
2.05	102.05	.663E+05	163.0	1.35	6.78
2.17	102.17	.717E+05	183.6	1.41	6.51
2.30	102.30	.771E+05	205.2	1.46	6.26

	AREA (ha)	<---- hydrograph ----> QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	<-pipe / channel-> MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0092)	332.01	14.82	13.58	84.50	0.72	0.55
OUTFLOW: ID= 1 (0093)	332.01	14.45	13.78	84.26	0.71	0.55

 | READ STORM |
Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25

1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB							
NASHYD (0208)	Area (ha)=	10.23	Curve Number (CN)=	82.0			
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	1.00					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25

1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50

5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.391

PEAK FLOW (cms)= 0.692 (i)

TIME TO PEAK (hrs)= 13.167

RUNOFF VOLUME (mm)= 81.751

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.655

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=124.80 mm	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1 Comments: 50yr 24hr 15min SCS
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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50

5.75	2.00	12.00	36.94	18.25	2.25
6.00	2.00	12.25	152.76	18.50	2.25
6.25	2.00	12.50	17.97	18.75	2.25

 | CALIB |
 | STANDHYD (0209) | Area (ha)= 15.74
 | ID= 1 DT= 5.0 min | Total Imp(%)= 50.00 Dir. Conn.(%)= 50.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	7.87	7.87
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.63	0.63
Length	(m)=	323.93	335.00
Mannings n	=	0.013	0.400

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50

2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 35.25
 over (min) 5.00 80.00
 Storage Coeff. (min)= 5.01 (ii) 76.89 (ii)
 Unit Hyd. Tpeak (min)= 5.00 80.00

Unit Hyd. peak (cms)=	0.21	0.01	
			TOTALS
PEAK FLOW (cms)=	3.21	0.40	3.308 (iii)
TIME TO PEAK (hrs)=	12.25	13.42	12.25
RUNOFF VOLUME (mm)=	123.80	69.98	96.89
TOTAL RAINFALL (mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT =	0.99	0.56	0.78

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ROUTE CHN(0233) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 5.00

<----- DATA FOR SECTION (15.0) ----->

Distance	Elevation	Manning	
0.00	102.30	0.0500	
10.00	100.30	0.0500	
15.00	100.30	0.0500 /0.0350	Main Channel
15.50	100.00	0.0350	Main Channel
16.50	100.30	0.0350 /0.0500	Main Channel
20.00	100.30	0.0500	
30.00	102.30	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH	ELEV	VOLUME	FLOW RATE	VELOCITY	TRAV.TIME
(m)	(m)	(cu.m.)	(cms)	(m/s)	(min)
0.10	100.10	.277E+02	0.0	0.19	96.57
0.20	100.20	.111E+03	0.0	0.30	60.84
0.30	100.30	.249E+03	0.1	0.40	46.43
0.43	100.43	.172E+04	0.5	0.34	54.18
0.55	100.55	.336E+04	1.4	0.46	40.48
0.68	100.68	.517E+04	2.6	0.55	33.22
0.80	100.80	.716E+04	4.2	0.64	28.72
0.93	100.93	.932E+04	6.1	0.72	25.62
1.05	101.05	.117E+05	8.3	0.79	23.32
1.18	101.18	.142E+05	11.0	0.86	21.54
1.30	101.30	.168E+05	14.0	0.92	20.10
1.43	101.43	.197E+05	17.4	0.97	18.91
1.55	101.55	.227E+05	21.1	1.03	17.91
1.67	101.67	.259E+05	25.3	1.08	17.04
1.80	101.80	.293E+05	30.0	1.13	16.29
1.92	101.92	.328E+05	35.0	1.18	15.62
2.05	102.05	.365E+05	40.5	1.23	15.03
2.17	102.17	.404E+05	46.5	1.27	14.50

2.30 102.30 .445E+05 52.9 1.32 14.01

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0209)	15.74	3.31	12.25	96.89	0.73	0.59
OUTFLOW: ID= 1 (0233)	15.74	1.30	12.33	96.85	0.54	0.44

| ADD HYD (0234) |
| 1 + 2 = 3 |

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0208):	10.23	0.692	13.17	81.75
+ ID2= 2 (0233):	15.74	1.302	12.33	96.85
=====				
ID = 3 (0234):	25.97	1.579	12.33	90.90

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0095) |
| 1 + 2 = 3 |

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0234):	25.97	1.579	12.33	90.90
+ ID2= 2 (0093):	332.01	14.445	13.78	84.26
=====				
ID = 3 (0095):	357.98	15.653	13.73	84.74

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0097) |
| 1 + 2 = 3 |

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0095):	357.98	15.653	13.73	84.74
+ ID2= 2 (0096):	29.00	2.694	12.58	65.66
=====				
ID = 3 (0097):	386.98	16.421	13.65	83.31

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ROUTE CHN(0098) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (14.0) ----->

Distance	Elevation	Manning	
0.00	197.50	0.0500	
160.00	195.00	0.0500	
175.00	194.00	0.0500	
177.00	193.60	0.0500 /0.0350	Main Channel
178.00	193.60	0.0350 /0.0500	Main Channel
180.00	194.00	0.0500	
195.00	195.00	0.0500	
250.00	197.50	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.21	193.81	.561E+03	0.1	0.35	63.39
0.41	194.01	.169E+04	0.6	0.48	46.67
0.62	194.22	.402E+04	1.5	0.51	44.47
0.82	194.42	.805E+04	3.4	0.57	39.81
1.03	194.63	.138E+05	6.5	0.64	35.42
1.23	194.83	.212E+05	11.1	0.71	31.78
1.44	195.04	.304E+05	17.1	0.76	29.72
1.64	195.24	.435E+05	24.2	0.75	29.98
1.85	195.45	.614E+05	35.5	0.78	28.81
2.05	195.65	.842E+05	51.5	0.83	27.25
2.26	195.86	.112E+06	72.7	0.88	25.64
2.46	196.06	.144E+06	99.9	0.93	24.10
2.67	196.27	.182E+06	133.6	0.99	22.70
2.87	196.47	.224E+06	174.3	1.05	21.44
3.08	196.68	.272E+06	222.8	1.11	20.31
3.28	196.88	.324E+06	279.6	1.17	19.30
3.49	197.09	.381E+06	345.1	1.22	18.39
3.69	197.29	.443E+06	419.9	1.28	17.57
3.90	197.50	.510E+06	504.6	1.34	16.83

		AREA (ha)	<---- hydrograph ----> QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	<-pipe / channel-> MAX DEPTH (m)	MAX VEL (m/s)
INFLOW :	ID= 2 (0097)	386.98	16.42	13.65	83.31	1.41	0.75
OUTFLOW:	ID= 1 (0098)	386.98	15.19	14.12	82.91	1.37	0.74

| ROUTE CHN(0099)|
IN= 2---> OUT= 1

Routing time step (min)'= 1.00

<----- DATA FOR SECTION (15.0) ----->

Distance	Elevation	Manning	
0.00	102.30	0.0500	
10.00	100.30	0.0500	
15.00	100.30	0.0500 /0.0350	Main Channel
15.50	100.00	0.0350	Main Channel

16.50	100.30	0.0350 / 0.0500	Main Channel
20.00	100.30	0.0500	
30.00	102.30	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.150E+02	0.0	0.18	54.45
0.20	100.20	.600E+02	0.0	0.29	34.30
0.30	100.30	.135E+03	0.1	0.38	26.17
0.43	100.43	.932E+03	0.5	0.33	30.54
0.55	100.55	.182E+04	1.3	0.44	22.82
0.68	100.68	.281E+04	2.5	0.53	18.73
0.80	100.80	.389E+04	4.0	0.62	16.19
0.93	100.93	.506E+04	5.8	0.69	14.44
1.05	101.05	.632E+04	8.0	0.76	13.15
1.18	101.18	.768E+04	10.5	0.82	12.14
1.30	101.30	.913E+04	13.4	0.88	11.33
1.43	101.43	.107E+05	16.7	0.94	10.66
1.55	101.55	.123E+05	20.3	0.99	10.10
1.67	101.67	.141E+05	24.4	1.04	9.61
1.80	101.80	.159E+05	28.8	1.09	9.18
1.92	101.92	.178E+05	33.7	1.14	8.81
2.05	102.05	.198E+05	39.0	1.18	8.47
2.17	102.17	.219E+05	44.7	1.22	8.17
2.30	102.30	.241E+05	50.9	1.27	7.90

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0098)	386.98	15.19	14.12	82.91	1.37	0.91
OUTFLOW: ID= 1 (0099)	386.98	15.05	14.27	82.66	1.36	0.91

 | READ STORM |
Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50

2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB			
NASHYD (0213)	Area (ha)= 27.14	Curve Number (CN)= 80.0	
ID= 1 DT= 5.0 min	Ia (mm)= 5.00	# of Linear Res.(N)= 3.00	
	U.H. Tp(hrs)= 1.39		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25

1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50

5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.746

PEAK FLOW (cms)= 1.362 (i)

TIME TO PEAK (hrs)= 13.583

RUNOFF VOLUME (mm)= 78.298

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.627

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0101)					
1 + 2 = 3					
	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0213):	27.14	1.362	13.58	78.30	
+ ID2= 2 (0099):	386.98	15.047	14.27	82.66	
=====					
ID = 3 (0101):	414.12	16.271	14.22	82.37	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData
	ata\Local\Temp\
	f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50

3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB |
| STANDHYD ( 0102) |
| ID= 1 DT= 5.0 min |
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Area (ha)= 40.00
Total Imp(%)= 43.00 Dir. Conn.(%)= 43.00

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	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	17.20	22.80
Dep. Storage (mm)=	1.50	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	516.40	516.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25

1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50

5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 45.22
over (min) 10.00 50.00
Storage Coeff. (min)= 7.75 (ii) 47.08 (ii)
Unit Hyd. Tpeak (min)= 10.00 50.00
Unit Hyd. peak (cms)= 0.13 0.02

TOTALS

PEAK FLOW (cms)= 6.03 1.62 6.568 (iii)
TIME TO PEAK (hrs)= 12.25 12.92 12.25
RUNOFF VOLUME (mm)= 123.30 68.46 92.04
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.55 0.74

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0103)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0101):	414.12	16.271	14.22	82.37
+ ID2= 2 (0102):	40.00	6.568	12.25	92.04
=====				
ID = 3 (0103):	454.12	17.179	14.17	83.23

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25

1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB          |
| NASHYD ( 0214) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 3.11   Curve Number (CN)= 80.0
Ia        (mm)= 5.00   # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.52

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25

1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50

5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.228

PEAK FLOW (cms)= 0.325 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 78.294
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.627

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0235)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0103):	454.12	17.179	14.17	83.23
+ ID2= 2 (0214):	3.11	0.325	12.67	78.29
=====				
ID = 3 (0235):	457.23	17.245	14.13	83.19

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData
	ata\Local\Temp\
	f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50

3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB |
| NASHYD ( 0416) | Area (ha)= 11.52 Curve Number (CN)= 73.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.00 # of Linear Res.(N)= 2.00
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| U.H. Tp(hrs)= 1.20

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25

2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.249

PEAK FLOW (cms)= 0.385 (i)
 TIME TO PEAK (hrs)= 13.583
 RUNOFF VOLUME (mm)= 64.707
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.518

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB	Area (ha)= 32.76	Curve Number (CN)= 73.0
NASHYD (0010)	Ia (mm)= 8.00	# of Linear Res.(N)= 2.00
ID= 1 DT= 5.0 min		

----- U.H. Tp(hrs)= 1.40

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50

3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.607

PEAK FLOW (cms)= 0.971 (i)

TIME TO PEAK (hrs)= 13.833

RUNOFF VOLUME (mm)= 64.714

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.519

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData
	ata\Local\Temp\
	f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr

0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

| CALIB |
| STANDHYD (0011) |
ID= 1 DT= 5.0 min

Area (ha)= 18.11
Total Imp(%)= 67.00 Dir. Conn.(%)= 53.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	12.13	5.98
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	0.50
Length	(m)=	347.47	10.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25

0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50

4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 181.01
over (min) 5.00 10.00
Storage Coeff. (min)= 5.61 (ii) 8.86 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.20 0.12

TOTALS

PEAK FLOW (cms)= 3.86 2.29 6.142 (iii)
TIME TO PEAK (hrs)= 12.25 12.25 12.25
RUNOFF VOLUME (mm)= 123.80 89.47 107.67
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.72 0.86

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0404)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0010):	32.76	0.971	13.83	64.71
+ ID2= 2 (0011):	18.11	6.142	12.25	107.67
=====				
ID = 3 (0404):	50.87	6.470	12.25	80.00

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0407)
 IN= 2---> OUT= 1
 DT= 5.0 min

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.4110	0.7190
0.0220	0.1180	1.0690	0.8000
0.0310	0.2400	1.9200	0.8820
0.0380	0.3680	2.9280	0.9650
0.0440	0.5010	4.0700	1.0500
0.0500	0.6400	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0404)	50.870	6.470	12.25	80.00
OUTFLOW: ID= 1 (0407)	50.870	3.178	12.42	79.98

PEAK FLOW REDUCTION [Qout/Qin](%)= 49.13
 TIME SHIFT OF PEAK FLOW (min)= 10.00
 MAXIMUM STORAGE USED (ha.m.)= 0.9878

READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50

5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | STANDHYD (0412) |
ID= 1 DT= 5.0 min

Area (ha)= 5.88
 Total Imp(%)= 46.10 Dir. Conn.(%)= 5.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	2.71	3.17
Dep. Storage	(mm)=	1.00	4.00
Average Slope	(%)=	0.50	0.50
Length	(m)=	250.00	10.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50

2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 216.44
over (min) 5.00 10.00
Storage Coeff. (min)= 4.60 (ii) 8.02 (ii)

Unit Hyd. Tpeak (min)=	5.00	10.00	
Unit Hyd. peak (cms)=	0.23	0.13	
			TOTALS
PEAK FLOW (cms)=	0.12	1.49	1.615 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	123.80	85.39	87.31
TOTAL RAINFALL (mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT =	0.99	0.68	0.70

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
 ***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
 YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0403) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0407):  50.87  3.178  12.42  79.98
+ ID2= 2 ( 0412):   5.88  1.615  12.25  87.31
=====
ID = 3 ( 0403):  56.75  4.370  12.33  80.74
  
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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| RESERVOIR( 0420) | OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min |
-----
          OUTFLOW    STORAGE    OUTFLOW    STORAGE
          (cms)    (ha.m.)    (cms)    (ha.m.)
          0.0000    0.0000    0.4500    0.5700
          0.0200    0.0400    0.9300    0.5750
          0.0350    0.1540    1.5000    0.6500
          0.0450    0.2340    2.6000    0.7300
          0.0540    0.3160    5.2000    1.0200
          0.0610    0.4000    7.7000    1.2000
          0.0680    0.5000    0.0000    0.0000

          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
INFLOW : ID= 2 ( 0403)  56.750  4.370  12.33  80.74
OUTFLOW: ID= 1 ( 0420)  56.750  2.262  12.83  80.73
  
```

PEAK FLOW REDUCTION [Qout/Qin](%)= 51.75

TIME SHIFT OF PEAK FLOW (min)= 30.00
 MAXIMUM STORAGE USED (ha.m.)= 0.7054

READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB
 STANDHYD (0414)
 ID= 1 DT= 5.0 min

Area (ha)= 3.37
 Total Imp(%)= 23.00 Dir. Conn.(%)= 23.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.78	2.59
Dep. Storage (mm)=	1.00	4.00
Average Slope (%)=	0.50	0.50
Length (m)=	149.89	150.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50

3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 56.15
over (min) 5.00 35.00
Storage Coeff. (min)= 3.38 (ii) 33.17 (ii)
Unit Hyd. Tpeak (min)= 5.00 35.00
Unit Hyd. peak (cms)= 0.26 0.03

TOTALS

PEAK FLOW (cms)= 0.33 0.24 0.428 (iii)
TIME TO PEAK (hrs)= 12.25 12.67 12.25
RUNOFF VOLUME (mm)= 123.80 67.95 80.79
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.54 0.65

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| ADD HYD ( 0394) |
| 1 + 2 = 3 |
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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0414):	3.37	0.428	12.25	80.79
+ ID2= 2 (0420):	56.75	2.262	12.83	80.73
=====				
ID = 3 (0394):	60.12	2.498	12.83	80.73

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| DIVERTHYD( 0399) |
| IN= 1 # OUT= 5 |
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Outflow / Inflow Relationships

Flow 1 (cms)	Flow 2 (cms)	Flow 3 (cms)	Flow 4 (cms)	Flow 5 (cms)	Total (cms)
0.00	0.00	0.00	0.00	0.00	0.00
0.48	0.00	0.00	0.00	0.00	0.48
0.48	0.01	0.00	0.00	0.00	0.49
0.48	50.00	0.00	0.00	0.00	50.48

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
TOTAL HYD.(ID= 1):	60.12	2.50	12.83	80.73
=====				
ID= 2 (2) :	40.46	0.48	12.83	80.73
ID= 3 (2) :	19.66	2.02	12.83	80.73
ID= 4 (2) :	0.00	0.00	0.00	0.00
ID= 5 (2) :	0.00	0.00	0.00	0.00
ID= 6 (2) :	0.00	0.00	0.00	0.00

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| READ STORM |
| Ptotal=124.80 mm |
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```

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bd175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25

1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB          |
| NASHYD ( 0452) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 23.73   Curve Number  (CN)= 73.0
Ia        (mm)=  8.00   # of Linear Res.(N)= 2.00
U.H. Tp(hrs)=  0.90

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25

1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50

5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.684

PEAK FLOW (cms)= 0.991 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 64.687
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.518

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bd175f1
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | STANDHYD (0001) |
ID= 1 DT= 5.0 min

Area (ha)= 9.99
 Total Imp(%)= 21.20 Dir. Conn.(%)= 2.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	2.12	7.87
Dep. Storage	(mm)=	1.00	4.00
Average Slope	(%)=	0.50	0.50
Length	(m)=	400.00	10.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50

2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 136.03
over (min) 5.00 15.00
Storage Coeff. (min)= 6.10 (ii) 10.22 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.19 0.09

TOTALS
2.017 (iii)

PEAK FLOW (cms)= 0.08 1.98

TIME TO PEAK	(hrs)=	12.25	12.33	12.33
RUNOFF VOLUME	(mm)=	123.80	74.99	75.97
TOTAL RAINFALL	(mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT	=	0.99	0.60	0.61

***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData
	ata\Local\Temp\
	f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB          |
| STANDHYD ( 0002) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 45.47
Total Imp(%)= 67.00   Dir. Conn.(%)= 53.00

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                IMPERVIOUS      PERVIOUS (i)
Surface Area   (ha)=      30.46      15.01
Dep. Storage   (mm)=       1.00       1.50
Average Slope  (%)=       1.00       2.00
Length         (m)=     550.58      10.00
Mannings n     =         0.013      0.250

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50

2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)=	152.76	181.01
over (min)	5.00	10.00
Storage Coeff. (min)=	6.00 (ii)	8.15 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.19	0.13

PEAK FLOW (cms)=	9.58	5.91	15.491 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	123.80	89.47	107.67

TOTALS

TOTAL RAINFALL (mm)= 124.80 124.80 124.80
 RUNOFF COEFFICIENT = 0.99 0.72 0.86

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | RESERVOIR(0419) |
 | IN= 2---> OUT= 1 |
DT= 5.0 min

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.3420	1.7920
0.0550	0.3010	0.7330	1.9980
0.0780	0.6110	1.2380	2.2060
0.0960	0.9280	1.8350	2.4170
0.1110	1.2540	2.5100	2.6300
0.1240	1.5880	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0002)	45.470	15.491	12.25	107.67
OUTFLOW: ID= 1 (0419)	45.470	2.793	12.67	107.63

PEAK FLOW REDUCTION [Qout/Qin](%)= 18.03
 TIME SHIFT OF PEAK FLOW (min)= 25.00
 MAXIMUM STORAGE USED (ha.m.)= 2.7214

 | ADD HYD (0439) |
1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0001):	9.99	2.017	12.33	75.97
+ ID2= 2 (0419):	45.47	2.793	12.67	107.63
=====				
ID = 3 (0439):	55.46	4.276	12.42	101.93

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | RESERVOIR(0406) |
 | IN= 2---> OUT= 1 |
DT= 5.0 min

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	1.9800	0.4300

0.0230	0.0500		2.3100	0.4400
0.0330	0.0610		2.9200	0.4600
0.0400	0.0710		3.2000	0.4700
0.0460	0.1240		3.7700	0.4900
0.0510	0.3400		7.2000	0.5940
1.1000	0.4000		0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0439)	55.460	4.276	12.42	101.93
OUTFLOW: ID= 1 (0406)	55.460	3.735	12.58	101.92

PEAK FLOW REDUCTION [Qout/Qin](%)= 87.35
 TIME SHIFT OF PEAK FLOW (min)= 10.00
 MAXIMUM STORAGE USED (ha.m.)= 0.4892

ADD HYD (0423)				
1 + 2 = 3				
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0406):	55.46	3.735	12.58	101.92
+ ID2= 2 (0452):	23.73	0.991	13.17	64.69
=====				
ID = 3 (0423):	79.19	4.533	12.58	90.76

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

-----		Filename: C:\Users\p001130E\AppData	
READ STORM		ata\Local\Temp\	
Ptotal=124.80 mm		f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1	
-----		Comments: 50yr 24hr 15min SCS	

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50

3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB          |
| STANDHYD ( 0415) |
| ID= 1 DT= 5.0 min |
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Area      (ha)=    3.25
Total Imp(%)= 85.00  Dir. Conn.(%)= 85.00

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                IMPERVIOUS    PERVIOUS (i)
Surface Area   (ha)=         2.76         0.49
Dep. Storage   (mm)=         0.00         1.50
Average Slope  (%)=         0.50         0.50
Length         (m)=        147.20        61.00
Mannings n     =           0.013        0.250

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25

1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50

5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 110.42
over (min) 5.00 20.00
Storage Coeff. (min)= 3.35 (ii) 16.59 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.26 0.06

TOTALS

PEAK FLOW (cms)= 1.16 0.08 1.218 (iii)
TIME TO PEAK (hrs)= 12.25 12.42 12.25
RUNOFF VOLUME (mm)= 124.80 79.67 118.03
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 1.00 0.64 0.95

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0448)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0415):	3.25	1.218	12.25	118.03
+ ID2= 2 (0423):	79.19	4.533	12.58	90.76
=====				
ID = 3 (0448):	82.44	4.735	12.58	91.84

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0422)	OVERFLOW IS OFF			
IN= 2---> OUT= 1	OUTFLOW	STORAGE	OUTFLOW	STORAGE
DT= 5.0 min	(cms)	(ha.m.)	(cms)	(ha.m.)
	0.0000	0.0000	1.2660	0.2040
	0.0190	0.0115	1.5380	0.2350
	0.0640	0.0250	1.8410	0.2680
	0.1300	0.0405	2.1760	0.3030
	0.2180	0.0579	2.5440	0.3400
	0.3290	0.0773	2.9470	0.3790
	0.4640	0.0986	3.3860	0.4200
	0.6240	0.1220	3.8620	0.4630

0.8100	0.1470		4.3750	0.5080
1.0240	0.1740		4.9270	0.5550

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0448)	82.440	4.735	12.58	91.84
OUTFLOW: ID= 1 (0422)	82.440	4.090	13.00	91.84

PEAK FLOW REDUCTION [Qout/Qin](%)= 86.38
 TIME SHIFT OF PEAK FLOW (min)= 25.00
 MAXIMUM STORAGE USED (ha.m.)= 0.4836

READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB			
NASHYD (0454)		Area (ha)= 9.66	Curve Number (CN)= 73.0
ID= 1 DT= 5.0 min		Ia (mm)= 8.00	# of Linear Res.(N)= 2.00
-----		U.H. Tp(hrs)= 2.00	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50

3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.125

PEAK FLOW (cms)= 0.216 (i)

TIME TO PEAK (hrs)= 14.583

RUNOFF VOLUME (mm)= 64.723

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.519

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0424)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0422):	82.44	4.090	13.00	91.84

```

+ ID2= 2 ( 0454):    9.66   0.216   14.58   64.72
=====
ID = 3 ( 0424):    92.10   4.242   13.00   88.99

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| READ STORM |      Filename: C:\Users\p001130E\AppData
|            |      ata\Local\Temp\
|            |      f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
| Ptotal=124.80 mm |      Comments: 50yr 24hr 15min SCS
-----

```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

```

-----
| CALIB |
| NASHYD ( 0459) | Area (ha)= 4.33 Curve Number (CN)= 73.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.00 # of Linear Res.(N)= 2.00
|            | U.H. Tp(hrs)= 0.80
-----

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50

4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.140

PEAK FLOW (cms)= 0.198 (i)

TIME TO PEAK (hrs)= 13.083

RUNOFF VOLUME (mm)= 64.674

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.518

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0430)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0399):	40.46	0.481	12.83	80.73
+ ID2= 2 (0424):	92.10	4.242	13.00	88.99
=====				
ID = 3 (0430):	132.56	4.724	13.00	86.47

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0430) |
| 3 + 2 = 1 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 3 ( 0430):  132.56  4.724    13.00    86.47
+ ID2= 2 ( 0459):   4.33  0.198    13.08    64.67
=====
ID = 1 ( 0430):  136.89  4.921    13.00    85.78

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0466) |
| IN= 2---> OUT= 1 |
-----
          Routing time step (min)'= 5.00

```

```

<----- DATA FOR SECTION ( 1.1) ----->
Distance      Elevation      Manning
0.00          100.00        0.0350      Main Channel
1.00          99.67         0.0350      Main Channel
2.00          99.67         0.0350      Main Channel
9.00          97.92         0.0350      Main Channel
11.00         97.92         0.0350      Main Channel
18.00         99.67         0.0350      Main Channel
19.00         99.67         0.0350      Main Channel
20.00         100.00        0.0350      Main Channel

```

```

<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)        (m)      (cu.m.)      (cms)          (m/s)         (min)
0.11      98.03    .133E+03     0.1            0.37          22.64
0.22      98.14    .315E+03     0.3            0.54          15.30
0.33      98.25    .544E+03     0.7            0.68          12.24
0.44      98.36    .821E+03     1.3            0.80          10.46
0.55      98.47    .115E+04     2.1            0.90           9.25
0.66      98.58    .152E+04     3.0            1.00           8.36
0.77      98.69    .194E+04     4.2            1.09           7.67
0.88      98.80    .241E+04     5.7            1.17           7.11
0.99      98.91    .293E+04     7.3            1.25           6.64
1.09      99.01    .349E+04     9.3            1.33           6.25
1.20      99.12    .410E+04    11.6           1.41           5.92
1.31      99.23    .477E+04    14.1           1.48           5.62
1.42      99.34    .547E+04    17.0           1.55           5.36
1.53      99.45    .623E+04    20.2           1.62           5.13
1.64      99.56    .704E+04    23.8           1.69           4.93
1.75      99.67    .789E+04    25.7           1.63           5.12
1.86      99.78    .889E+04    30.6           1.72           4.84
1.97      99.89    .993E+04    35.9           1.81           4.61
2.08      100.00   .110E+05    41.7           1.89           4.40

```

```

<----- hydrograph -----> <-pipe / channel->
AREA      QPEAK      TPEAK      R.V.      MAX DEPTH      MAX VEL

```

	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0430)	136.89	4.92	13.00	85.78	0.82	1.13
OUTFLOW: ID= 1 (0466)	136.89	4.86	13.17	85.78	0.81	1.12

```

-----
| ADD HYD ( 0409) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0416):  11.52  0.385   13.58   64.71
+ ID2= 2 ( 0466): 136.89  4.864   13.17   85.78
=====
ID = 3 ( 0409):  148.41  5.233   13.17   84.15

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| READ STORM |
|           |
| Ptotal=124.80 mm |
-----
Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\bd175f1
Comments: 50yr 24hr 15min SCS

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		

6.25 2.00 | 12.50 17.97 | 18.75 2.25 |

CALIB			
STANDHYD (0426)	Area (ha)=	4.61	
ID= 1 DT= 5.0 min	Total Imp(%)=	85.00	Dir. Conn.(%)= 85.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	3.92	0.69
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	1.00
Length (m)=	175.31	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50

2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)=	152.76	114.79
over (min)	5.00	10.00
Storage Coeff. (min)=	3.02 (ii)	6.68 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.27	0.14

TOTALS

PEAK FLOW	(cms)=	1.65	0.18	1.836 (iii)
TIME TO PEAK	(hrs)=	12.25	12.25	12.25
RUNOFF VOLUME	(mm)=	123.80	79.67	117.18
TOTAL RAINFALL	(mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT	=	0.99	0.64	0.94

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| RESERVOIR( 0463) | OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
-----
| OUTFLOW          | STORAGE | OUTFLOW          | STORAGE
| (cms)            | (ha.m.) | (cms)            | (ha.m.)
| 0.0000           | 0.0000 | 0.0910           | 0.2900
-----
| AREA             | QPEAK   | TPEAK           | R.V.
| (ha)            | (cms)   | (hrs)           | (mm)
INFLOW : ID= 2 ( 0426) 4.610   1.836   12.25   117.18
OUTFLOW: ID= 1 ( 0463) 4.610   0.102   13.33   117.01
-----
PEAK FLOW REDUCTION [Qout/Qin](%)= 5.57
TIME SHIFT OF PEAK FLOW (min)= 65.00
MAXIMUM STORAGE USED (ha.m.)= 0.3258
-----

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-----
| ADD HYD ( 0462) |
| 1 + 2 = 3       |
-----
| AREA             | QPEAK   | TPEAK           | R.V.
| (ha)            | (cms)   | (hrs)           | (mm)
ID1= 1 ( 0409): 148.41 5.233   13.17   84.15
+ ID2= 2 ( 0463): 4.61  0.102   13.33  117.01
=====
ID = 3 ( 0462): 153.02 5.335   13.17   85.14
-----

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ROUTE CHN( 0398) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00
-----
<----- DATA FOR SECTION ( 1.1) ----->
Distance      Elevation      Manning
0.00          100.00         0.0350      Main Channel

```

1.00	99.67	0.0350	Main Channel
2.00	99.67	0.0350	Main Channel
9.00	97.92	0.0350	Main Channel
11.00	97.92	0.0350	Main Channel
18.00	99.67	0.0350	Main Channel
19.00	99.67	0.0350	Main Channel
20.00	100.00	0.0350	Main Channel

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.11	98.03	.934E+02	0.1	0.37	15.85
0.22	98.14	.220E+03	0.3	0.54	10.71
0.33	98.25	.381E+03	0.7	0.68	8.57
0.44	98.36	.575E+03	1.3	0.80	7.32
0.55	98.47	.803E+03	2.1	0.90	6.47
0.66	98.58	.106E+04	3.0	1.00	5.85
0.77	98.69	.136E+04	4.2	1.09	5.37
0.88	98.80	.169E+04	5.7	1.17	4.98
0.99	98.91	.205E+04	7.3	1.25	4.65
1.09	99.01	.244E+04	9.3	1.33	4.38
1.20	99.12	.287E+04	11.6	1.41	4.14
1.31	99.23	.334E+04	14.1	1.48	3.94
1.42	99.34	.383E+04	17.0	1.55	3.75
1.53	99.45	.436E+04	20.2	1.62	3.59
1.64	99.56	.492E+04	23.8	1.69	3.45
1.75	99.67	.552E+04	25.7	1.63	3.58
1.86	99.78	.623E+04	30.6	1.72	3.39
1.97	99.89	.695E+04	35.9	1.81	3.22
2.08	100.00	.771E+04	41.7	1.89	3.08

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0462)	153.02	5.34	13.17	85.14	0.85	1.15
OUTFLOW: ID= 1 (0398)	153.02	5.31	13.25	85.14	0.85	1.15

| ROUTE CHN(0460) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00

Distance	Elevation	Manning	
0.00	100.00	0.0350	Main Channel
8.00	98.00	0.0350	Main Channel
16.00	100.00	0.0350	Main Channel

<----- TRAVEL TIME TABLE ----->

DEPTH	ELEV	VOLUME	FLOW RATE	VELOCITY	TRAV.TIME
-------	------	--------	-----------	----------	-----------

(m)	(m)	(cu.m.)	(cms)	(m/s)	(min)
0.11	98.11	.177E+02	0.0	0.41	16.16
0.21	98.21	.709E+02	0.1	0.65	10.18
0.32	98.32	.160E+03	0.3	0.86	7.77
0.42	98.42	.284E+03	0.7	1.04	6.41
0.53	98.53	.443E+03	1.3	1.21	5.53
0.63	98.63	.638E+03	2.2	1.36	4.90
0.74	98.74	.869E+03	3.3	1.51	4.42
0.84	98.84	.113E+04	4.7	1.65	4.04
0.95	98.95	.144E+04	6.4	1.78	3.74
1.05	99.05	.177E+04	8.5	1.91	3.48
1.16	99.16	.215E+04	10.9	2.04	3.27
1.26	99.26	.255E+04	13.8	2.16	3.08
1.37	99.37	.300E+04	17.1	2.28	2.92
1.47	99.47	.347E+04	20.8	2.40	2.78
1.58	99.58	.399E+04	25.0	2.51	2.66
1.68	99.68	.454E+04	29.7	2.62	2.55
1.79	99.79	.512E+04	34.9	2.73	2.44
1.89	99.89	.574E+04	40.7	2.83	2.35
2.00	100.00	.640E+04	47.0	2.94	2.27

		AREA	<---- hydrograph ---->			<-pipe / channel->	
		(ha)	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
			(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0399)	19.66	2.02	12.83	80.73	0.61	1.33
OUTFLOW:	ID= 1 (0460)	19.66	1.99	12.92	80.73	0.61	1.32

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-----
| READ STORM |
|           |
| Ptotal=124.80 mm |
|           |
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Filename: C:\Users\p001130E\AppData
         ata\Local\Temp\
         f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Comments: 50yr 24hr 15min SCS

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50

3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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-----
| CALIB          |
| NASHYD ( 0029) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 52.69   Curve Number (CN)= 73.0
Ia        (mm)=  8.00   # of Linear Res.(N)= 2.00
U.H. Tp(hrs)=  1.70

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25

2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.804

PEAK FLOW (cms)= 1.340 (i)
 TIME TO PEAK (hrs)= 14.250
 RUNOFF VOLUME (mm)= 64.720
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.519

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB	Area (ha)= 14.71
STANDHYD (0028)	Total Imp(%)= 65.00 Dir. Conn.(%)= 52.00
ID= 1 DT= 5.0 min	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	9.56	5.15
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	1.00	0.50
Length	(m)=	313.16	10.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50

3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)=	152.76	172.69
over (min)	5.00	10.00
Storage Coeff. (min)=	4.28 (ii)	7.63 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.23	0.13

			TOTALS
PEAK FLOW (cms)=	3.17	1.98	5.148 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	123.80	88.49	106.85
TOTAL RAINFALL (mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT =	0.99	0.71	0.86

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0400)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0028):	14.71	5.148	12.25	106.85
+ ID2= 2 (0029):	52.69	1.340	14.25	64.72
=====				
ID = 3 (0400):	67.40	5.543	12.25	73.92

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0453)	OVERFLOW IS OFF			
IN= 2---> OUT= 1	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
DT= 5.0 min	0.0000	0.0000	0.5730	0.5740
	0.0180	0.0930	1.5470	0.6380
	0.0250	0.1900	2.8070	0.7040
	0.0310	0.2920	4.2980	0.7710
	0.0350	0.3980	5.9900	0.8400
	0.0390	0.5100	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0400)	67.400	5.543	12.25	73.92
OUTFLOW: ID= 1 (0453)	67.400	3.775	12.33	73.90

PEAK FLOW REDUCTION [Qout/Qin](%)= 68.11
 TIME SHIFT OF PEAK FLOW (min)= 5.00
 MAXIMUM STORAGE USED (ha.m.)= 0.7509

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25

0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

| CALIB |
| STANDHYD (0438) |
ID= 1 DT= 5.0 min

Area (ha)= 15.41
Total Imp(%)= 44.20 Dir. Conn.(%)= 4.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	6.81	8.60
Dep. Storage (mm)=	1.00	4.00
Average Slope (%)=	0.50	0.50
Length (m)=	250.00	10.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25

0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50

4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 209.83
over (min) 5.00 10.00
Storage Coeff. (min)= 4.60 (ii) 8.06 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.23 0.13

TOTALS

PEAK FLOW (cms)= 0.25 3.92 4.171 (iii)
TIME TO PEAK (hrs)= 12.25 12.25 12.25
RUNOFF VOLUME (mm)= 123.80 84.71 86.27
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.68 0.69

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0451) |
| 1 + 2 = 3 |
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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0438):	15.41	4.171	12.25	86.27
+ ID2= 2 (0453):	67.40	3.775	12.33	73.90
=====				
ID = 3 (0451):	82.81	7.516	12.33	76.20

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| RESERVOIR( 0440) |
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
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OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.1330	0.7200
0.0450	0.0750	1.6800	0.8830
0.0630	0.1620	3.8710	1.0800
0.0890	0.2460	7.3830	1.2000
0.1000	0.3930	9.6100	1.3600
0.1180	0.5600	14.2500	1.8800

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0451)	82.810	7.516	12.33	76.20
OUTFLOW: ID= 1 (0440)	82.810	3.084	12.67	76.19

PEAK FLOW REDUCTION [Qout/Qin](%)= 41.03
 TIME SHIFT OF PEAK FLOW (min)= 20.00
 MAXIMUM STORAGE USED (ha.m.)= 1.0120

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| READ STORM      |
|                 |
| Ptotal=124.80 mm |
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Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50

5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB          |
| NASHYD ( 0021) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 47.88   Curve Number (CN)= 73.0
Ia        (mm)=  8.00   # of Linear Res.(N)= 2.00
U.H. Tp(hrs)=  2.20

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50

2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.565

PEAK FLOW (cms)= 0.991 (i)
 TIME TO PEAK (hrs)= 14.833
 RUNOFF VOLUME (mm)= 64.725
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.519

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | READ STORM |
Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | STANDHYD (0022) |
ID= 1 DT= 5.0 min

Area (ha)= 13.00
 Total Imp(%)= 67.00 Dir. Conn.(%)= 53.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	8.71	4.29
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	0.50
Length (m)=	294.39	10.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50

3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)=	152.76	181.01
over (min)	5.00	10.00
Storage Coeff. (min)=	5.07 (ii)	8.33 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.21	0.13

			TOTALS
PEAK FLOW (cms)=	2.81	1.68	4.485 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	123.80	89.47	107.66
TOTAL RAINFALL (mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT =	0.99	0.72	0.86

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0411)				
1 + 2 = 3				
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0021):	47.88	0.991	14.83	64.73
+ ID2= 2 (0022):	13.00	4.485	12.25	107.66
=====				
ID = 3 (0411):	60.88	4.727	12.25	73.89

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0434)				
IN= 2---> OUT= 1				
DT= 5.0 min				
OVERFLOW IS OFF				
	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.4800	0.5150
	0.0160	0.0830	1.2900	0.5720
	0.0220	0.1700	2.3390	0.6300
	0.0270	0.2620	3.5810	0.6900
	0.0320	0.3580	4.9900	0.7500
	0.0350	0.4590	0.0000	0.0000
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0411)	60.880	4.727	12.25	73.89
OUTFLOW: ID= 1 (0434)	60.880	2.996	12.33	73.87

PEAK FLOW REDUCTION [Qout/Qin](%)= 63.37
 TIME SHIFT OF PEAK FLOW (min)= 5.00
 MAXIMUM STORAGE USED (ha.m.)= 0.6636

READ STORM		Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1	
Ptotal=124.80 mm		Comments: 50yr 24hr 15min SCS	

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50

2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | STANDHYD (0427) |
 | ID= 1 DT= 5.0 min |

Area (ha)= 12.72
 Total Imp(%)= 25.30 Dir. Conn.(%)= 3.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	3.22	9.50
Dep. Storage (mm)=	1.00	4.00
Average Slope (%)=	0.50	0.50
Length (m)=	220.00	10.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25

1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50

5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 144.38
over (min) 5.00 10.00
Storage Coeff. (min)= 4.26 (ii) 8.28 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.23 0.13

TOTALS

PEAK FLOW (cms)= 0.16 2.92 3.075 (iii)
TIME TO PEAK (hrs)= 12.25 12.25 12.25
RUNOFF VOLUME (mm)= 123.80 76.34 77.77
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.61 0.62

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0461)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0427):	12.72	3.075	12.25	77.77
+ ID2= 2 (0434):	60.88	2.996	12.33	73.87
=====				
ID = 3 (0461):	73.60	5.799	12.33	74.55

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0413)	OVERFLOW IS OFF			
IN= 2---> OUT= 1	OUTFLOW	STORAGE	OUTFLOW	STORAGE
DT= 5.0 min	(cms)	(ha.m.)	(cms)	(ha.m.)
	0.0000	0.0000	0.0830	0.5800

0.0370	0.1125		1.9000	0.7700
0.0530	0.2275		6.4000	1.1000
0.0650	0.3450		9.2000	1.2500
0.0750	0.4630		0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0461)	73.600	5.799	12.33	74.55
OUTFLOW: ID= 1 (0413)	73.600	2.356	12.67	74.54

PEAK FLOW REDUCTION [Qout/Qin](%)= 40.62
 TIME SHIFT OF PEAK FLOW (min)= 20.00
 MAXIMUM STORAGE USED (ha.m.)= 0.8035

```

-----
| ADD HYD ( 0465) |
| 1 + 2 = 3 |
-----
          AREA   QPEAK   TPEAK   R.V.
          (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0413):  73.60  2.356  12.67  74.54
+ ID2= 2 ( 0440):  82.81  3.084  12.67  76.19
=====
ID = 3 ( 0465):  156.41  5.440  12.67  75.41
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0437) |
| 1 + 2 = 3 |
-----
          AREA   QPEAK   TPEAK   R.V.
          (ha)   (cms)   (hrs)   (mm)
ID1= 1 ( 0460):  19.66  1.985  12.92  80.73
+ ID2= 2 ( 0465):  156.41  5.440  12.67  75.41
=====
ID = 3 ( 0437):  176.07  7.057  12.75  76.01
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| READ STORM |
|           |
|           |
| Ptotal=124.80 mm |
|           |
|           |
-----
Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Comments: 50yr 24hr 15min SCS
  
```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25

1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB	
STANDHYD (0449)	Area (ha)= 11.34
ID= 1 DT= 5.0 min	Total Imp(%)= 35.00 Dir. Conn.(%)= 20.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	3.97	7.37
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	0.50
Length (m)=	274.95	40.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25

0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50

5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 150.60
over (min) 5.00 15.00
Storage Coeff. (min)= 5.31 (ii) 13.25 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.21 0.08

TOTALS
2.563 (iii)

PEAK FLOW (cms)= 0.92 1.88
TIME TO PEAK (hrs)= 12.25 12.33
RUNOFF VOLUME (mm)= 123.80 85.59
TOTAL RAINFALL (mm)= 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.69
0.75

***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0402)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0437):	176.07	7.057	12.75	76.01
+ ID2= 2 (0449):	11.34	2.563	12.25	93.23
=====				
ID = 3 (0402):	187.41	7.864	12.75	77.05

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB
 STANDHYD (0392)
 ID= 1 DT= 5.0 min

Area (ha)= 10.08
 Total Imp(%)= 85.00 Dir. Conn.(%)= 85.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	8.57	1.51
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	0.50
Length (m)=	320.00	40.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50

4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)=	152.76	114.79
over (min)	5.00	10.00
Storage Coeff. (min)=	5.81 (ii)	9.76 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.20	0.11

TOTALS

PEAK FLOW (cms)=	3.42	0.35	3.771 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	123.80	79.67	117.18
TOTAL RAINFALL (mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT =	0.99	0.64	0.94

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0456) |
| IN= 2---> OUT= 1 |
DT= 5.0 min

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0430	0.3300

0.0130 0.2600 | 3.5000 0.3800

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0392)	10.080	3.771	12.25	117.18
OUTFLOW: ID= 1 (0456)	10.080	3.593	12.25	114.89

PEAK FLOW REDUCTION [Qout/Qin](%)= 95.27
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.3840

| ADD HYD (0468) |
| 1 + 2 = 3 |

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0402):	187.41	7.864	12.75	77.05
+ ID2= 2 (0456):	10.08	3.593	12.25	114.89
=====				
ID = 3 (0468):	197.49	8.408	12.75	78.98

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ROUTE CHN(0464) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00

<----- DATA FOR SECTION (1.1) ----->

Distance	Elevation	Manning	
0.00	208.50	0.0800	
17.50	205.99	0.0800	
23.70	205.99	0.0800 /0.0350	Main Channel
23.90	205.59	0.0350	Main Channel
26.10	205.59	0.0350	Main Channel
26.30	205.99	0.0350 /0.0800	Main Channel
32.50	205.99	0.0800	
42.50	208.50	0.0800	
50.00	209.10	0.0800	
53.60	210.15	0.0800	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.13	205.72	.756E+02	0.1	0.39	10.71
0.27	205.86	.156E+03	0.4	0.58	7.13
0.40	205.99	.240E+03	0.7	0.73	5.72
0.56	206.15	.862E+03	1.7	0.48	8.62
0.71	206.30	.155E+04	3.3	0.53	7.91
0.87	206.46	.231E+04	5.4	0.59	7.10
1.03	206.62	.313E+04	8.1	0.65	6.45

1.18	206.77	.403E+04	11.3	0.70	5.93
1.34	206.93	.499E+04	15.1	0.75	5.52
1.50	207.09	.601E+04	19.3	0.80	5.18
1.66	207.24	.711E+04	24.2	0.85	4.90
1.81	207.40	.827E+04	29.6	0.89	4.66
1.97	207.56	.950E+04	35.6	0.94	4.45
2.13	207.72	.108E+05	42.2	0.98	4.26
2.28	207.87	.122E+05	49.4	1.02	4.10
2.44	208.03	.136E+05	57.2	1.05	3.96
2.60	208.19	.151E+05	65.7	1.09	3.83
2.75	208.34	.167E+05	74.9	1.12	3.71
2.91	208.50	.183E+05	84.7	1.16	3.60

		AREA	<---- hydrograph ---->			<-pipe / channel->	
		(ha)	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
			(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0468)	197.49	8.41	12.75	78.98	1.04	0.65
OUTFLOW:	ID= 1 (0464)	197.49	8.16	12.83	78.98	1.03	0.65

```

-----
| READ STORM |
|           |
| Ptotal=124.80 mm |
|           |
-----

```

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Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Comments: 50yr 24hr 15min SCS

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50

5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB							
NASHYD (0433)	Area	(ha)=	3.67	Curve Number	(CN)=	72.0	
ID= 1 DT= 5.0 min	Ia	(mm)=	5.00	# of Linear Res.(N)=	3.00		
	U.H. Tp	(hrs)=	0.20				

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50

2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.701

PEAK FLOW (cms)= 0.622 (i)
 TIME TO PEAK (hrs)= 12.333
 RUNOFF VOLUME (mm)= 65.536
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.525

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdcl75f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB
 STANDHYD (0436)
 ID= 1 DT= 5.0 min

Area (ha)= 13.86
 Total Imp(%)= 85.00 Dir. Conn.(%)= 85.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	11.78	2.08
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	0.50
Length (m)=	303.97	40.00
Mannings n =	0.013	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50

3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)=	152.76	114.79
over (min)	5.00	10.00
Storage Coeff. (min)=	5.17 (ii)	9.12 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.21	0.12

			TOTALS
PEAK FLOW (cms)=	4.79	0.49	5.280 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	123.80	79.67	117.18
TOTAL RAINFALL (mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT =	0.99	0.64	0.94

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | RESERVOIR(0397)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |
 | DT= 5.0 min |

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0590	0.4500
0.0180	0.3500	4.5000	0.5000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0436)	13.860	5.280	12.25	117.18
OUTFLOW: ID= 1 (0397)	13.860	5.125	12.25	115.08

PEAK FLOW REDUCTION [Qout/Qin](%)= 97.08
 TIME SHIFT OF PEAK FLOW (min)= 0.00
 MAXIMUM STORAGE USED (ha.m.)= 0.5094

| ADD HYD (0443) |
 | 1 + 2 = 3 |

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0397):	13.86	5.125	12.25	115.08
+ ID2= 2 (0433):	3.67	0.622	12.33	65.54
=====				
ID = 3 (0443):	17.53	5.703	12.25	104.71

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0425) |
 | 1 + 2 = 3 |

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0443):	17.53	5.703	12.25	104.71
+ ID2= 2 (0464):	197.49	8.159	12.83	78.98
=====				
ID = 3 (0425):	215.02	10.148	12.25	81.08

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| READ STORM |
 | Ptotal=124.80 mm |

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25

0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB							
NASHYD (0421)	Area (ha)=	4.08	Curve Number (CN)=	72.0			
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	0.10					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25

1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50

5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 1.558

PEAK FLOW (cms)= 0.990 (i)
 TIME TO PEAK (hrs)= 12.250
 RUNOFF VOLUME (mm)= 63.955
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.512

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0393)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0421):	4.08	0.990	12.25	63.95
+ ID2= 2 (0425):	215.02	10.148	12.25	81.08
=====				
ID = 3 (0393):	219.10	11.139	12.25	80.76

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50

2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

| CALIB |
| STANDHYD (0401) |
ID= 1 DT= 5.0 min

Area (ha)= 23.92
Total Imp(%)= 85.00 Dir. Conn.(%)= 85.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	20.33	3.59
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	0.50
Length (m)=	399.33	40.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25

1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50

5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 114.79
over (min) 5.00 10.00
Storage Coeff. (min)= 5.39 (ii) 9.34 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.21 0.12

TOTALS

PEAK FLOW (cms)= 8.22 0.84 9.057 (iii)
TIME TO PEAK (hrs)= 12.25 12.25 12.25
RUNOFF VOLUME (mm)= 123.80 79.67 117.18
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.64 0.94

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0410) |
| IN= 2---> OUT= 1 |
DT= 5.0 min

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	10.0000	0.3560
1.7940	0.3550	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0401)	23.920	9.057	12.25	117.18
OUTFLOW: ID= 1 (0410)	23.920	8.657	12.25	117.18

PEAK FLOW REDUCTION [Qout/Qin](%)= 95.58
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.3618

| ADD HYD (0458) |
1 + 2 = 3

AREA	QPEAK	TPEAK	R.V.
------	-------	-------	------

	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0393):	219.10	11.139	12.25	80.76
+ ID2= 2 (0410):	23.92	8.657	12.25	117.18
=====				
ID = 3 (0458):	243.02	19.796	12.25	84.34

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB	Area (ha)= 36.03
STANDHYD (0442)	Total Imp(%)= 85.00 Dir. Conn.(%)= 85.00
ID= 1 DT= 5.0 min	

IMPERVIOUS PERVIOUS (i)

Surface Area	(ha)=	30.63	5.40
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	0.50
Length	(m)=	500.00	40.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50

3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)=	152.76	114.79
over (min)	10.00	15.00
Storage Coeff. (min)=	7.60 (ii)	11.54 (ii)
Unit Hyd. Tpeak (min)=	10.00	15.00
Unit Hyd. peak (cms)=	0.13	0.09

TOTALS

PEAK FLOW (cms)=	10.80	1.10	11.771 (iii)
TIME TO PEAK (hrs)=	12.25	12.33	12.25
RUNOFF VOLUME (mm)=	123.80	79.67	117.18
TOTAL RAINFALL (mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT =	0.99	0.64	0.94

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.
 (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| RESERVOIR( 0447) | OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
-----
      OUTFLOW   STORAGE   |   OUTFLOW   STORAGE
      (cms)     (ha.m.)   |   (cms)     (ha.m.)
      0.0000    0.0000   |   10.0000    0.5100
      2.7023    0.5090   |   0.0000    0.0000

                AREA     QPEAK     TPEAK     R.V.
                (ha)     (cms)     (hrs)     (mm)
INFLOW : ID= 2 ( 0442)  36.030    11.771    12.25    117.18
OUTFLOW: ID= 1 ( 0447)  36.030    16.236    12.25    117.18

                PEAK FLOW REDUCTION [Qout/Qin](%)=137.94
                TIME SHIFT OF PEAK FLOW (min)= 0.00
                MAXIMUM STORAGE USED (ha.m.)= 0.4439
  
```

**** WARNING : HYDROGRAPH PEAK WAS NOT REDUCED.
 CHECK OUTFLOW/STORAGE TABLE OR REDUCE DT.

```

-----
| ADD HYD ( 0418) |
| 1 + 2 = 3      |
-----
                AREA     QPEAK     TPEAK     R.V.
                (ha)     (cms)     (hrs)     (mm)
      ID1= 1 ( 0447):  36.03    16.236    12.25    117.18
      + ID2= 2 ( 0458):  243.02    19.796    12.25    84.34
      =====
      ID = 3 ( 0418):  279.05    36.032    12.25    88.58
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| RESERVOIR( 0441) | OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
-----
      OUTFLOW   STORAGE   |   OUTFLOW   STORAGE
      (cms)     (ha.m.)   |   (cms)     (ha.m.)
      0.0000    0.0000   |   1.6990    1.0780
      0.1310    0.0010   |   3.4270    2.2830
      0.6360    0.0400   |   17.6780   3.7480
      1.2810    0.3280   |   38.1890   5.3720

                AREA     QPEAK     TPEAK     R.V.
                (ha)     (cms)     (hrs)     (mm)
INFLOW : ID= 2 ( 0418)  279.050    36.032    12.25    88.58
OUTFLOW: ID= 1 ( 0441)  279.050    12.691    12.92    88.58
  
```

PEAK FLOW REDUCTION [Qout/Qin](%)= 35.22
 TIME SHIFT OF PEAK FLOW (min)= 40.00
 MAXIMUM STORAGE USED (ha.m.)= 3.2396

 | READ STORM |
Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | NASHYD (0467) |
ID= 1 DT= 5.0 min

Area (ha)= 23.47 Curve Number (CN)= 73.0
 Ia (mm)= 8.00 # of Linear Res.(N)= 2.00
 U.H. Tp(hrs)= 1.20

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50

4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.508

PEAK FLOW (cms)= 0.784 (i)

TIME TO PEAK (hrs)= 13.583

RUNOFF VOLUME (mm)= 64.707

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.518

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0408)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0441):	279.05	12.691	12.92	88.58
+ ID2= 2 (0467):	23.47	0.784	13.58	64.71
=====				
ID = 3 (0408):	302.52	13.382	12.92	86.73

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0445)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0398):	153.02	5.312	13.25	85.14
+ ID2= 2 (0408):	302.52	13.382	12.92	86.73
=====				
ID = 3 (0445):	455.54	18.261	13.00	86.20

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | ROUTE CHN(0457) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 5.00

<----- DATA FOR SECTION (2.0) ----->				
Distance	Elevation	Manning		
0.00	101.30	0.0300		
3.00	100.70	0.0300		
6.00	100.70	0.0300		
13.00	100.40	0.0300		
17.00	100.30	0.0300 /0.0300	Main Channel	
18.00	100.00	0.0300	Main Channel	
18.50	100.30	0.0300 /0.0300	Main Channel	
22.00	100.40	0.0300		
29.00	100.70	0.0300		
32.00	100.70	0.0300		
35.00	101.30	0.0300		

<----- TRAVEL TIME TABLE ----->					
DEPTH	ELEV	VOLUME	FLOW RATE	VELOCITY	TRAV.TIME
(m)	(m)	(cu.m.)	(cms)	(m/s)	(min)
0.06	100.06	.675E+01	0.0	0.19	64.83
0.12	100.12	.270E+02	0.0	0.31	40.84
0.18	100.18	.607E+02	0.0	0.40	31.17
0.24	100.24	.108E+03	0.1	0.49	25.73
0.30	100.30	.169E+03	0.1	0.56	22.17
0.37	100.37	.393E+03	0.3	0.55	22.84
0.44	100.44	.884E+03	0.7	0.57	21.96
0.51	100.51	.156E+04	1.3	0.64	19.38
0.59	100.59	.242E+04	2.3	0.73	17.22
0.66	100.66	.346E+04	3.7	0.81	15.51
0.73	100.73	.479E+04	5.2	0.81	15.47
0.80	100.80	.637E+04	8.0	0.94	13.31
0.87	100.87	.800E+04	11.3	1.06	11.76
0.94	100.94	.967E+04	15.2	1.18	10.60
1.01	101.01	.114E+05	19.5	1.29	9.70
1.09	101.09	.131E+05	24.4	1.39	8.97
1.16	101.16	.149E+05	29.6	1.49	8.38
1.23	101.23	.167E+05	35.3	1.59	7.88
1.30	101.30	.186E+05	41.5	1.68	7.46

			<---- hydrograph ---->		<-pipe / channel->		
		AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
		(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0445)	455.54	18.26	13.00	86.20	0.99	1.25
OUTFLOW:	ID= 1 (0457)	455.54	17.89	13.17	86.19	0.99	1.24

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| READ STORM |
|           |
| Ptotal=124.80 mm |
|           |
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Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Comments: 50yr 24hr 15min SCS

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB |
| STANDHYD ( 0396) |
| ID= 1 DT= 5.0 min |
|           |
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Area (ha)= 6.73
Total Imp(%)= 85.00 Dir. Conn.(%)= 85.00

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IMPERVIOUS PERVIOUS (i)

Surface Area	(ha)=	5.72	1.01
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	0.50
Length	(m)=	211.82	76.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50

3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 88.50
over (min) 5.00 25.00
Storage Coeff. (min)= 4.17 (ii) 20.68 (ii)
Unit Hyd. Tpeak (min)= 5.00 25.00
Unit Hyd. peak (cms)= 0.24 0.05

TOTALS

PEAK FLOW (cms)= 2.38 0.14 2.462 (iii)
TIME TO PEAK (hrs)= 12.25 12.50 12.25
RUNOFF VOLUME (mm)= 123.80 79.67 117.18
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.64 0.94

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)

- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| RESERVOIR( 0428) |
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
-----

```

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	2.0000	0.1000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0396)	6.730	2.462	12.25	117.18
OUTFLOW: ID= 1 (0428)	6.730	1.870	12.25	117.18

PEAK FLOW REDUCTION [Qout/Qin](%)= 75.95
 TIME SHIFT OF PEAK FLOW (min)= 0.00
 MAXIMUM STORAGE USED (ha.m.)= 0.1024

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-----
| ADD HYD ( 0395) |
| 1 + 2 = 3       |
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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0428):	6.73	1.870	12.25	117.18
+ ID2= 2 (0457):	455.54	17.894	13.17	86.19
=====				
ID = 3 (0395):	462.27	18.132	13.08	86.64

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| READ STORM      |
| Ptotal=124.80 mm |
-----

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Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50

2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB	
STANDHYD (0041)	Area (ha)= 107.00
ID= 1 DT= 5.0 min	Total Imp(%)= 52.00 Dir. Conn.(%)= 35.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	55.64	51.36
Dep. Storage (mm)=	1.50	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	789.00	789.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25

1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50

5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 64.48
over (min) 10.00 55.00
Storage Coeff. (min)= 9.99 (ii) 54.02 (ii)
Unit Hyd. Tpeak (min)= 10.00 55.00
Unit Hyd. peak (cms)= 0.11 0.02

TOTALS

PEAK FLOW (cms)= 12.01 5.16 13.676 (iii)
TIME TO PEAK (hrs)= 12.25 13.00 12.25
RUNOFF VOLUME (mm)= 123.30 77.80 93.73
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.62 0.75

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0435)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0395):	462.27	18.132	13.08	86.64
+ ID2= 2 (0041):	107.00	13.676	12.25	93.73
=====				
ID = 3 (0435):	569.27	24.480	13.08	87.98

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ROUTE CHN(0043)		
IN= 2---> OUT= 1		
Routing time step (min)'= 1.00		
<----- DATA FOR SECTION (3.0) ----->		
Distance	Elevation	Manning
0.00	101.30	0.0300
3.00	100.70	0.0300
6.00	100.70	0.0300

13.00	100.40	0.0300	
17.00	100.30	0.0300 /0.0130	Main Channel
18.00	100.00	0.0130	Main Channel
18.50	100.30	0.0130 /0.0300	Main Channel
22.00	100.40	0.0300	
29.00	100.70	0.0300	
32.00	100.70	0.0300	
35.00	101.30	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.06	100.06	.675E+01	0.0	0.44	28.09
0.12	100.12	.270E+02	0.0	0.71	17.70
0.18	100.18	.607E+02	0.1	0.93	13.51
0.24	100.24	.108E+03	0.2	1.12	11.15
0.30	100.30	.169E+03	0.3	1.30	9.61
0.37	100.37	.393E+03	0.6	1.15	10.83
0.44	100.44	.884E+03	1.2	1.00	12.52
0.51	100.51	.156E+04	2.1	0.99	12.57
0.59	100.59	.242E+04	3.3	1.03	12.13
0.66	100.66	.346E+04	5.0	1.08	11.57
0.73	100.73	.479E+04	6.7	1.05	11.85
0.80	100.80	.637E+04	9.9	1.16	10.74
0.87	100.87	.800E+04	13.6	1.28	9.79
0.94	100.94	.967E+04	17.9	1.39	9.02
1.01	101.01	.114E+05	22.6	1.49	8.38
1.09	101.09	.131E+05	27.9	1.59	7.84
1.16	101.16	.149E+05	33.6	1.69	7.39
1.23	101.23	.167E+05	39.8	1.79	7.00
1.30	101.30	.186E+05	46.4	1.88	6.66

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0435)	569.27	24.48	13.08	87.98	1.04	1.53
OUTFLOW: ID= 1 (0043)	569.27	24.08	13.15	78.41	1.03	1.52

**** WARNING : THE HYD WAS CUT TO 2000 POINTS

READ STORM
Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
ata\Local\Temp\
f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25

0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB	
STANDHYD (0044)	Area (ha)= 80.00
ID= 1 DT= 5.0 min	Total Imp(%)= 52.00 Dir. Conn.(%)= 35.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	41.60	38.40
Dep. Storage (mm)=	1.50	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	730.00	730.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25

0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50

4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 64.48
over (min) 10.00 55.00
Storage Coeff. (min)= 9.54 (ii) 51.56 (ii)
Unit Hyd. Tpeak (min)= 10.00 55.00
Unit Hyd. peak (cms)= 0.12 0.02

TOTALS

PEAK FLOW (cms)= 9.14 3.95 10.416 (iii)
TIME TO PEAK (hrs)= 12.25 13.00 12.25
RUNOFF VOLUME (mm)= 123.30 77.80 93.73
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.62 0.75

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0045)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0043):	569.27	24.082	13.15	78.41
+ ID2= 2 (0044):	80.00	10.416	12.25	93.73
=====				
ID = 3 (0045):	649.27	28.812	13.08	80.30

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ROUTE CHN(0046) |

| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (4.0) ----->

Distance	Elevation	Manning	
0.00	102.50	0.0300	
3.00	101.90	0.0300	
6.00	101.90	0.0300	
13.00	100.50	0.0300	
21.50	100.30	0.0300 /0.0130	Main Channel
22.00	100.00	0.0130	Main Channel
23.00	100.30	0.0130 /0.0300	Main Channel
32.00	100.50	0.0300	
39.00	100.90	0.0300	
42.00	100.90	0.0300	
45.00	102.50	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.188E+02	0.0	0.44	28.26
0.20	100.20	.750E+02	0.1	0.70	17.80
0.30	100.30	.169E+03	0.2	0.92	13.59
0.44	100.44	.944E+03	0.8	0.65	19.21
0.58	100.58	.282E+04	2.6	0.68	18.34
0.71	100.71	.512E+04	5.6	0.82	15.26
0.85	100.85	.773E+04	9.8	0.95	13.20
0.99	100.99	.108E+05	15.0	1.04	12.00
1.13	101.13	.141E+05	22.3	1.18	10.57
1.26	101.26	.175E+05	30.7	1.32	9.50
1.40	101.40	.210E+05	40.4	1.44	8.68
1.54	101.54	.246E+05	51.2	1.56	8.02
1.68	101.68	.283E+05	63.1	1.67	7.48
1.81	101.81	.321E+05	76.1	1.78	7.03
1.95	101.95	.361E+05	87.3	1.81	6.90
2.09	102.09	.404E+05	103.2	1.91	6.53
2.23	102.23	.448E+05	120.2	2.01	6.21
2.36	102.36	.493E+05	138.4	2.10	5.94
2.50	102.50	.539E+05	157.8	2.20	5.69

		<---- hydrograph ---->			<-pipe / channel->	
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0045)	649.27	28.81	13.08	80.30	1.23	1.28
OUTFLOW: ID= 1 (0046)	649.27	28.22	13.20	80.24	1.22	1.27

| READ STORM |

Filename: C:\Users\p001130E\AppData
Local\Temp\

0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50

4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 69.11
over (min) 10.00 50.00
Storage Coeff. (min)= 9.24 (ii) 48.86 (ii)
Unit Hyd. Tpeak (min)= 10.00 50.00
Unit Hyd. peak (cms)= 0.12 0.02

TOTALS

PEAK FLOW (cms)= 7.85 3.83 9.161 (iii)
TIME TO PEAK (hrs)= 12.25 12.92 12.25
RUNOFF VOLUME (mm)= 123.30 77.49 92.61
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.62 0.74

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia =Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0048)				
1 + 2 = 3				

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0046):	649.27	28.217	13.20	80.24
+ ID2= 2 (0047):	72.00	9.161	12.25	92.61
=====				

ID = 3 (0048): 721.27 32.288 13.13 81.48

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | READ STORM |
Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | STANDHYD (0049) |
ID= 1 DT= 5.0 min

Area (ha)= 22.00
 Total Imp(%)= 56.00 Dir. Conn.(%)= 38.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	12.32	9.68
Dep. Storage (mm)=	1.50	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	382.97	383.00

Mannings n = 0.015 0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50

3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)=	152.76	104.77
over (min)	5.00	30.00
Storage Coeff. (min)=	6.47 (ii)	29.98 (ii)
Unit Hyd. Tpeak (min)=	5.00	30.00
Unit Hyd. peak (cms)=	0.18	0.04

			TOTALS
PEAK FLOW (cms)=	3.28	1.56	4.069 (iii)
TIME TO PEAK (hrs)=	12.25	12.58	12.25
RUNOFF VOLUME (mm)=	123.30	78.99	95.83
TOTAL RAINFALL (mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT =	0.99	0.63	0.77

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.
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| DUHYD   ( 0050) |
| Inlet Cap.= 1.200 |
| #of Inlets= 1 |
| Total(cms)= 1.2 |
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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
TOTAL HYD.(ID= 1):	22.00	4.07	12.25	95.83
MAJOR SYS.(ID= 2):	4.13	2.87	12.25	95.83
MINOR SYS.(ID= 3):	17.87	1.20	12.08	95.83

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| READ STORM |
| Ptotal=124.80 mm |
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Filename: C:\Users\p001130E\AppData
 Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | STANDHYD (0051) |
ID= 1 DT= 5.0 min

Area (ha)= 16.50
 Total Imp(%)= 56.00 Dir. Conn.(%)= 38.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	9.24	7.26
Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	332.00	332.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50

2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)=	152.76	104.77
over (min)	5.00	30.00
Storage Coeff. (min)=	5.94 (ii)	27.51 (ii)
Unit Hyd. Tpeak (min)=	5.00	30.00
Unit Hyd. peak (cms)=	0.19	0.04

			TOTALS
PEAK FLOW (cms)=	2.50	1.22	3.118 (iii)
TIME TO PEAK (hrs)=	12.25	12.58	12.25
RUNOFF VOLUME (mm)=	123.30	78.98	95.82
TOTAL RAINFALL (mm)=	124.80	124.80	124.80

RUNOFF COEFFICIENT = 0.99 0.63 0.77

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| DUHYD (0052) |
| Inlet Cap.= 1.800 |
| #of Inlets= 1 |
Total(cms)= 1.8

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
TOTAL HYD.(ID= 1):	16.50	3.12	12.25	95.82
=====				
MAJOR SYS.(ID= 2):	0.86	1.32	12.25	95.82
MINOR SYS.(ID= 3):	15.64	1.80	12.08	95.82

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0053) |
1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0050):	4.13	2.869	12.25	95.83
+ ID2= 2 (0052):	0.86	1.318	12.25	95.82
=====				
ID = 3 (0053):	4.99	4.188	12.25	95.83

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0054) |
1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0048):	721.27	32.288	13.13	81.48
+ ID2= 2 (0053):	4.99	4.188	12.25	95.83
=====				
ID = 3 (0054):	726.26	32.288	13.13	81.57

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ROUTE CHN(0055) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

----->

<----- DATA FOR SECTION (5.0) ----->

Distance	Elevation	Manning	
0.00	102.50	0.0300	
3.00	101.90	0.0300	
6.00	101.90	0.0300	
13.00	100.50	0.0300	
21.50	100.30	0.0300 /0.0130	Main Channel
22.00	100.00	0.0130	Main Channel
23.00	100.30	0.0130 /0.0300	Main Channel
32.00	100.50	0.0300	
39.00	100.90	0.0300	
42.00	100.90	0.0300	
45.00	102.50	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.163E+02	0.0	0.70	15.49
0.20	100.20	.650E+02	0.1	1.11	9.76
0.30	100.30	.146E+03	0.3	1.45	7.45
0.44	100.44	.818E+03	1.3	1.03	10.53
0.58	100.58	.245E+04	4.1	1.08	10.05
0.71	100.71	.443E+04	8.8	1.29	8.37
0.85	100.85	.670E+04	15.4	1.50	7.23
0.99	100.99	.937E+04	23.7	1.65	6.58
1.13	101.13	.122E+05	35.2	1.87	5.79
1.26	101.26	.152E+05	48.6	2.08	5.21
1.40	101.40	.182E+05	63.9	2.28	4.76
1.54	101.54	.213E+05	80.9	2.46	4.40
1.68	101.68	.245E+05	99.8	2.64	4.10
1.81	101.81	.278E+05	120.4	2.81	3.85
1.95	101.95	.313E+05	138.0	2.87	3.78
2.09	102.09	.350E+05	163.1	3.03	3.58
2.23	102.23	.388E+05	190.0	3.18	3.41
2.36	102.36	.427E+05	218.8	3.33	3.26
2.50	102.50	.467E+05	249.5	3.47	3.12

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0054)	726.26	32.29	13.13	81.57	1.09	1.81
OUTFLOW: ID= 1 (0055)	726.26	32.15	13.20	81.55	1.09	1.80

----->

READ STORM

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1

| Ptotal=124.80 mm | Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | STANDHYD (0056) |
 | ID= 1 DT= 5.0 min |

Area (ha)= 45.00
 Total Imp(%)= 50.00 Dir. Conn.(%)= 36.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	22.50	22.50
Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	547.72	548.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25

0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50

4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 71.51
over (min) 10.00 45.00
Storage Coeff. (min)= 8.03 (ii) 41.97 (ii)
Unit Hyd. Tpeak (min)= 10.00 45.00
Unit Hyd. peak (cms)= 0.13 0.03

TOTALS

PEAK FLOW (cms)= 5.62 2.48 6.527 (iii)
TIME TO PEAK (hrs)= 12.25 12.83 12.25
RUNOFF VOLUME (mm)= 123.30 76.11 93.10
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.61 0.75

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0057)				
1 + 2 = 3				

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0055):	726.26	32.153	13.20	81.55
+ ID2= 2 (0056):	45.00	6.527	12.25	93.10
=====				
ID = 3 (0057):	771.26	34.574	13.17	82.22

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | ROUTE CHN(0058) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (6.0) ----->
 Distance Elevation Manning
 0.00 102.40 0.0300
 5.50 101.30 0.0300
 18.00 101.10 0.0300
 21.00 100.50 0.0300
 29.50 100.30 0.0300 /0.0130 Main Channel
 30.00 100.00 0.0130 Main Channel
 31.00 100.30 0.0130 /0.0300 Main Channel
 38.50 100.50 0.0300
 41.50 101.10 0.0300
 54.50 101.30 0.0300
 60.00 102.40 0.0300

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.200E+02	0.0	0.38	34.81
0.20	100.20	.800E+02	0.1	0.61	21.93
0.30	100.30	.180E+03	0.2	0.80	16.73
0.43	100.43	.889E+03	0.7	0.59	22.59
0.56	100.56	.259E+04	2.0	0.60	22.10
0.69	100.69	.456E+04	4.2	0.73	18.19
0.83	100.83	.667E+04	7.2	0.86	15.54
0.96	100.96	.892E+04	10.8	0.97	13.72
1.09	101.09	.113E+05	15.2	1.08	12.39
1.22	101.22	.145E+05	17.1	0.95	14.10
1.35	101.35	.193E+05	23.0	0.95	13.97
1.48	101.48	.246E+05	32.6	1.06	12.55
1.61	101.61	.300E+05	43.7	1.17	11.43
1.74	101.74	.355E+05	56.2	1.27	10.54
1.88	101.88	.412E+05	70.0	1.36	9.81
2.01	102.01	.470E+05	85.2	1.45	9.20
2.14	102.14	.530E+05	101.7	1.54	8.68
2.27	102.27	.591E+05	119.5	1.62	8.24
2.40	102.40	.653E+05	138.5	1.70	7.86

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0057)	771.26	34.57	13.17	82.22	1.50	1.08
OUTFLOW: ID= 1 (0058)	771.26	33.98	13.28	82.15	1.49	1.07

READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdcl75f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB
 STANDHYD (0059)
 ID= 1 DT= 5.0 min

Area (ha)= 50.00
 Total Imp(%)= 49.00 Dir. Conn.(%)= 34.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	24.50	25.50
Dep. Storage (mm)=	1.50	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	577.35	577.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50

3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 72.63
over (min) 10.00 45.00
Storage Coeff. (min)= 8.28 (ii) 43.08 (ii)
Unit Hyd. Tpeak (min)= 10.00 45.00
Unit Hyd. peak (cms)= 0.13 0.03

TOTALS

PEAK FLOW (cms)= 5.83 2.81 6.868 (iii)
TIME TO PEAK (hrs)= 12.25 12.83 12.25
RUNOFF VOLUME (mm)= 123.30 76.44 92.38
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.61 0.74

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0060) |

1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0058):	771.26	33.983	13.28	82.15
+ ID2= 2 (0059):	50.00	6.868	12.25	92.38
=====				
ID = 3 (0060):	821.26	36.569	13.22	82.77

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | ROUTE CHN(0061)|
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (7.0) ----->

Distance	Elevation	Manning	
0.00	102.40	0.0300	
5.50	101.30	0.0300	
18.00	101.10	0.0300	
21.00	100.50	0.0300	
29.50	100.30	0.0300 /0.0130	Main Channel
30.00	100.00	0.0130	Main Channel
31.00	100.30	0.0130 /0.0300	Main Channel
38.50	100.50	0.0300	
41.50	101.10	0.0300	
54.50	101.30	0.0300	
60.00	102.40	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.150E+02	0.0	0.38	26.11
0.20	100.20	.600E+02	0.1	0.61	16.45
0.30	100.30	.135E+03	0.2	0.80	12.55
0.43	100.43	.667E+03	0.7	0.59	16.94
0.56	100.56	.194E+04	2.0	0.60	16.58
0.69	100.69	.342E+04	4.2	0.73	13.64
0.83	100.83	.500E+04	7.2	0.86	11.65
0.96	100.96	.669E+04	10.8	0.97	10.29
1.09	101.09	.848E+04	15.2	1.08	9.29
1.22	101.22	.109E+05	17.1	0.95	10.58
1.35	101.35	.145E+05	23.0	0.95	10.48
1.48	101.48	.184E+05	32.6	1.06	9.41
1.61	101.61	.225E+05	43.7	1.17	8.58
1.74	101.74	.266E+05	56.2	1.27	7.90
1.88	101.88	.309E+05	70.0	1.36	7.36
2.01	102.01	.353E+05	85.2	1.45	6.90
2.14	102.14	.397E+05	101.7	1.54	6.51
2.27	102.27	.443E+05	119.5	1.62	6.18
2.40	102.40	.490E+05	138.5	1.70	5.89

<----- hydrograph -----> <-pipe / channel->

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0060)	821.26	36.57	13.22	82.77	1.53	1.10
OUTFLOW: ID= 1 (0061)	821.26	36.24	13.32	82.72	1.52	1.09

READ STORM
Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | STANDHYD (0062) |
ID= 1 DT= 5.0 min

Area (ha)= 65.00
 Total Imp(%)= 50.00 Dir. Conn.(%)= 34.00

Surface Area	(ha)=	IMPERVIOUS	PERVIOUS (i)
		32.50	32.50

Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	658.28	658.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50

3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 67.67
over (min) 10.00 50.00
Storage Coeff. (min)= 8.96 (ii) 47.69 (ii)
Unit Hyd. Tpeak (min)= 10.00 50.00
Unit Hyd. peak (cms)= 0.12 0.02

TOTALS

PEAK FLOW (cms)= 7.38 3.43 8.555 (iii)
TIME TO PEAK (hrs)= 12.25 12.92 12.25
RUNOFF VOLUME (mm)= 123.30 77.04 92.77
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.62 0.74

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0063)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0061):	821.26	36.238	13.32	82.72
+ ID2= 2 (0062):	65.00	8.555	12.25	92.77
ID = 3 (0063):	886.26	39.611	13.25	83.46

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		


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| CALIB |
| STANDHYD ( 0066) | Area (ha)= 34.00
| ID= 1 DT= 5.0 min | Total Imp(%)= 47.00 Dir. Conn.(%)= 31.00
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                IMPERVIOUS      PERVIOUS (i)
Surface Area   (ha)=      15.98      18.02
Dep. Storage   (mm)=       1.50       1.50
Average Slope  (%)=       0.50       2.00
Length         (m)=      476.10     476.00
Mannings n    =         0.015     0.200

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 0.00 | 6.167 2.00 | 12.250 152.76 | 18.33 2.25
0.167 0.00 | 6.250 2.00 | 12.333 17.99 | 18.42 2.25
0.250 0.00 | 6.333 2.25 | 12.417 17.97 | 18.50 2.25
0.333 1.37 | 6.417 2.25 | 12.500 17.97 | 18.58 2.25
0.417 1.37 | 6.500 2.25 | 12.583 17.97 | 18.67 2.25
0.500 1.37 | 6.583 2.25 | 12.667 17.97 | 18.75 2.25
0.583 1.37 | 6.667 2.25 | 12.750 17.97 | 18.83 2.25
0.667 1.37 | 6.750 2.25 | 12.833 9.24 | 18.92 2.25
0.750 1.37 | 6.833 2.25 | 12.917 9.24 | 19.00 2.25
0.833 1.37 | 6.917 2.25 | 13.000 9.24 | 19.08 2.25
0.917 1.37 | 7.000 2.25 | 13.083 9.24 | 19.17 2.25
1.000 1.37 | 7.083 2.25 | 13.167 9.24 | 19.25 2.25
1.083 1.37 | 7.167 2.25 | 13.250 9.24 | 19.33 2.25
1.167 1.37 | 7.250 2.25 | 13.333 6.74 | 19.42 2.25
1.250 1.37 | 7.333 2.75 | 13.417 6.74 | 19.50 2.25
1.333 1.37 | 7.417 2.75 | 13.500 6.74 | 19.58 2.25
1.417 1.37 | 7.500 2.75 | 13.583 6.74 | 19.67 2.25
1.500 1.37 | 7.583 2.75 | 13.667 6.74 | 19.75 2.25
1.583 1.37 | 7.667 2.75 | 13.750 6.74 | 19.83 2.25
1.667 1.37 | 7.750 2.75 | 13.833 5.24 | 19.92 2.25
1.750 1.37 | 7.833 2.75 | 13.917 5.24 | 20.00 2.25
1.833 1.37 | 7.917 2.75 | 14.000 5.24 | 20.08 2.25
1.917 1.37 | 8.000 2.75 | 14.083 5.24 | 20.17 2.25
2.000 1.37 | 8.083 2.75 | 14.167 5.24 | 20.25 2.25
2.083 1.37 | 8.167 2.75 | 14.250 5.24 | 20.33 1.50
2.167 1.37 | 8.250 2.75 | 14.333 3.74 | 20.42 1.50
2.250 1.37 | 8.333 3.24 | 14.417 3.74 | 20.50 1.50
2.333 1.62 | 8.417 3.24 | 14.500 3.74 | 20.58 1.50
2.417 1.62 | 8.500 3.24 | 14.583 3.74 | 20.67 1.50
2.500 1.62 | 8.583 3.24 | 14.667 3.74 | 20.75 1.50
2.583 1.62 | 8.667 3.24 | 14.750 3.74 | 20.83 1.50
2.667 1.62 | 8.750 3.24 | 14.833 3.74 | 20.92 1.50

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2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 82.45
over (min) 5.00 40.00
Storage Coeff. (min)= 7.38 (ii) 36.85 (ii)
Unit Hyd. Tpeak (min)= 5.00 40.00
Unit Hyd. peak (cms)= 0.17 0.03

TOTALS

PEAK FLOW (cms)= 4.02 2.22 4.907 (iii)
TIME TO PEAK (hrs)= 12.25 12.75 12.25
RUNOFF VOLUME (mm)= 123.30 76.63 91.10

TOTAL RAINFALL (mm)= 124.80 124.80 124.80
 RUNOFF COEFFICIENT = 0.99 0.61 0.73

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB	Area	(ha)= 44.00
STANDHYD (0064)		

|ID= 1 DT= 5.0 min | Total Imp(%)= 57.00 Dir. Conn.(%)= 39.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	25.08	18.92
Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	541.60	542.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50

3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)=	152.76	82.64
over (min)	10.00	40.00
Storage Coeff. (min)=	7.97 (ii)	39.80 (ii)
Unit Hyd. Tpeak (min)=	10.00	40.00
Unit Hyd. peak (cms)=	0.13	0.03

PEAK FLOW (cms)=	5.96	2.53	6.984 (iii)
TIME TO PEAK (hrs)=	12.25	12.75	12.25
RUNOFF VOLUME (mm)=	123.30	79.18	96.39
TOTAL RAINFALL (mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT =	0.99	0.63	0.77

TOTALS

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ROUTE CHN(0065) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (8.0) ----->

Distance	Elevation	Manning	
0.00	102.30	0.0300	
10.00	100.30	0.0300	
37.00	100.30	0.0300 / 0.0130	Main Channel
38.00	100.00	0.0130	Main Channel
38.50	100.30	0.0130 / 0.0300	Main Channel
65.00	100.30	0.0300	
75.00	102.30	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.188E+02	0.0	0.38	32.63
0.20	100.20	.750E+02	0.1	0.61	20.56
0.30	100.30	.169E+03	0.2	0.79	15.72
0.43	100.43	.538E+04	2.7	0.37	33.75
0.55	100.55	.107E+05	7.8	0.55	22.83
0.68	100.68	.162E+05	15.1	0.70	17.88
0.80	100.80	.217E+05	24.2	0.83	14.99
0.93	100.93	.274E+05	34.9	0.96	13.07
1.05	101.05	.332E+05	47.3	1.07	11.69
1.18	101.18	.391E+05	61.3	1.17	10.64
1.30	101.30	.452E+05	76.7	1.27	9.81
1.43	101.43	.513E+05	93.6	1.37	9.14
1.55	101.55	.576E+05	111.9	1.46	8.58
1.67	101.67	.640E+05	131.6	1.54	8.11
1.80	101.80	.705E+05	152.6	1.62	7.70
1.92	101.92	.771E+05	175.1	1.70	7.34
2.05	102.05	.838E+05	198.8	1.78	7.03
2.17	102.17	.907E+05	224.0	1.85	6.75
2.30	102.30	.977E+05	250.4	1.92	6.50

	AREA (ha)	<----- hydrograph ----->			<-pipe / channel->	
		QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0064)	44.00	6.98	12.25	96.39	0.53	0.51
OUTFLOW: ID= 1 (0065)	44.00	3.43	12.77	96.38	0.44	0.39

```

-----
| ADD HYD ( 0067) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0065):  44.00    3.427    12.77    96.38
+ ID2= 2 ( 0066):  34.00    4.907    12.25    91.10
=====
ID = 3 ( 0067):  78.00    7.346    12.25    94.08

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0068) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0063):  886.26   39.611   13.25    83.46
+ ID2= 2 ( 0067):  78.00    7.346    12.25    94.08
=====
ID = 3 ( 0068):  964.26   44.508   13.12    84.32

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| READ STORM |
|           |
| Ptotal=124.80 mm |
-----
Filename: C:\Users\p001130E\AppData
         ata\Local\Temp\
         f8b850d0-74fd-4ec6-beca-711b43c82dc9\bd175f1
Comments: 50yr 24hr 15min SCS

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50

4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

| CALIB
| STANDHYD (0069)
ID= 1 DT= 5.0 min

Area (ha)= 47.00
Total Imp(%)= 45.00 Dir. Conn.(%)= 29.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	21.15	25.85
Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	559.76	560.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25

1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)=	152.76	72.38	
over (min)	10.00	45.00	
Storage Coeff. (min)=	8.13 (ii)	42.36 (ii)	
Unit Hyd. Tpeak (min)=	10.00	45.00	
Unit Hyd. peak (cms)=	0.13	0.03	
			TOTALS
PEAK FLOW (cms)=	4.71	2.87	5.760 (iii)
TIME TO PEAK (hrs)=	12.25	12.83	12.25
RUNOFF VOLUME (mm)=	123.30	76.37	89.98
TOTAL RAINFALL (mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT =	0.99	0.61	0.72

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0070) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0068):  964.26  44.508   13.12   84.32
+ ID2= 2 ( 0069):   47.00   5.760   12.25   89.98
=====
ID = 3 ( 0070): 1011.26  47.473   12.98   84.58

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| RESERVOIR( 9666) | OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min |
-----
          OUTFLOW      STORAGE      OUTFLOW      STORAGE
          (cms)      (ha.m.)      (cms)      (ha.m.)
          0.0000      0.0000      7.7080      13.5310
          0.0920      0.7130      13.6390      15.7520
          0.2610      1.4470      21.2060      18.0400
          0.4790      2.2020      30.0800      20.3990
          0.7370      2.9780      35.7640      22.8190
          1.0300      3.7740      39.1160      25.3060
          1.7060      5.4640      42.7520      27.8590
          2.4870      7.3110      47.1620      30.4780
          3.3610      9.3030      51.9470      33.1640
          4.3180      11.3790     56.9940      35.9160

          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)

```

INFLOW : ID= 2 (0070) 1011.256 47.473 12.98 84.58
 OUTFLOW: ID= 1 (9666) 1011.256 35.086 14.08 78.46

PEAK FLOW REDUCTION [Qout/Qin](%)= 73.91
 TIME SHIFT OF PEAK FLOW (min)= 66.00
 MAXIMUM STORAGE USED (ha.m.)= 22.5302

***** WARNING : SELECTED ROUTING TIME STEP DENIED.

 | ROUTE CHN(0072)|
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (9.0) ----->
 Distance Elevation Manning
 0.00 102.30 0.0500
 10.00 100.30 0.0500
 19.50 100.30 0.0500 /0.0350 Main Channel
 20.00 100.00 0.0350 Main Channel
 21.00 100.30 0.0350 /0.0500 Main Channel
 30.00 100.30 0.0500
 40.00 102.30 0.0500

<----- TRAVEL TIME TABLE ----->
 DEPTH ELEV VOLUME FLOW RATE VELOCITY TRAV.TIME
 (m) (m) (cu.m.) (cms) (m/s) (min)
 0.10 100.10 .125E+02 0.0 0.28 29.29
 0.20 100.20 .500E+02 0.0 0.45 18.45
 0.30 100.30 .113E+03 0.1 0.59 14.08
 0.43 100.43 .140E+04 1.3 0.45 18.37
 0.55 100.55 .277E+04 3.6 0.65 12.85
 0.68 100.68 .421E+04 6.9 0.81 10.23
 0.80 100.80 .574E+04 11.0 0.96 8.68
 0.93 100.93 .734E+04 16.0 1.09 7.65
 1.05 101.05 .902E+04 21.8 1.21 6.89
 1.18 101.18 .108E+05 28.4 1.32 6.32
 1.30 101.30 .126E+05 35.8 1.42 5.87
 1.43 101.43 .145E+05 44.1 1.52 5.49
 1.55 101.55 .165E+05 53.1 1.61 5.18
 1.67 101.67 .186E+05 63.0 1.69 4.92
 1.80 101.80 .207E+05 73.7 1.78 4.69
 1.92 101.92 .230E+05 85.3 1.86 4.49
 2.05 102.05 .253E+05 97.7 1.93 4.31
 2.17 102.17 .277E+05 111.0 2.01 4.15
 2.30 102.30 .301E+05 125.2 2.08 4.01

		<----- hydrograph ----->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (9666)	1011.26	35.09	14.08	78.46	1.29	1.41
OUTFLOW: ID= 1 (0072)	1011.26	35.04	14.13	78.26	1.29	1.41

READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB
 STANDHYD (0211)
 ID= 1 DT= 5.0 min

Area (ha)= 37.10
 Total Imp(%)= 75.00 Dir. Conn.(%)= 60.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	27.82	9.27
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	497.33	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50

3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)=	152.76	208.79
over (min)	5.00	15.00
Storage Coeff. (min)=	6.95 (ii)	11.15 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.17	0.09

			TOTALS
PEAK FLOW (cms)=	8.60	3.54	11.764 (iii)
TIME TO PEAK (hrs)=	12.25	12.33	12.25
RUNOFF VOLUME (mm)=	123.80	92.38	111.23
TOTAL RAINFALL (mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT =	0.99	0.74	0.89

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0294)
 IN= 2---> OUT= 1
 DT= 5.0 min

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.6300	1.6700
0.0040	0.7700	1.6700	2.4400
0.1480	1.2500	*****	2.4500

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0211)	37.100	11.764	12.25	111.23
OUTFLOW: ID= 1 (0294)	37.100	2.912	12.67	94.28

PEAK FLOW REDUCTION [Qout/Qin](%)= 24.75
 TIME SHIFT OF PEAK FLOW (min)= 25.00
 MAXIMUM STORAGE USED (ha.m.)= 2.4518

READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		

6.25 2.00 | 12.50 17.97 | 18.75 2.25 |

CALIB	
STANDHYD (0212)	Area (ha)= 13.56
ID= 1 DT= 5.0 min	Total Imp(%)= 21.00 Dir. Conn.(%)= 21.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	2.85	10.71
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	0.25
Length (m)=	300.67	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50

2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 110.42
 over (min) 5.00 20.00
 Storage Coeff. (min)= 5.14 (ii) 17.80 (ii)
 Unit Hyd. Tpeak (min)= 5.00 20.00
 Unit Hyd. peak (cms)= 0.21 0.06

TOTALS

PEAK FLOW	(cms)=	1.16	1.72	2.347 (iii)
TIME TO PEAK	(hrs)=	12.25	12.42	12.25
RUNOFF VOLUME	(mm)=	123.80	79.67	88.94
TOTAL RAINFALL	(mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT	=	0.99	0.64	0.71

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0237)				
1 + 2 = 3				

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0212):	13.56	2.347	12.25	88.94
+ ID2= 2 (0294):	37.10	2.912	12.67	94.28
=====				
ID = 3 (0237):	50.66	4.184	12.67	92.85

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData
	ata\Local\Temp\
	f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	' TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	' hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50

4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

| CALIB
| STANDHYD (0210)
ID= 1 DT= 5.0 min

Area (ha)= 8.52
Total Imp(%)= 27.00 Dir. Conn.(%)= 27.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	2.30	6.22
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.95	0.95
Length	(m)=	238.33	549.00
Mannings n	=	0.013	0.400

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25

1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50

6.083 2.00 |12.167 152.76 |18.250 2.25 |

Max.Eff.Inten.(mm/hr)=	152.76	35.25	
over (min)	5.00	90.00	
Storage Coeff. (min)=	3.69 (ii)	89.15 (ii)	
Unit Hyd. Tpeak (min)=	5.00	90.00	
Unit Hyd. peak (cms)=	0.25	0.01	
			TOTALS
PEAK FLOW (cms)=	0.96	0.28	1.028 (iii)
TIME TO PEAK (hrs)=	12.25	13.58	12.25
RUNOFF VOLUME (mm)=	123.80	69.98	84.51
TOTAL RAINFALL (mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT =	0.99	0.56	0.68

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ROUTE CHN(0236) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 5.00

<----- DATA FOR SECTION (2.0) ----->

Distance	Elevation	Manning	
0.00	101.30	0.0300	
3.00	100.70	0.0300	
6.00	100.70	0.0300	
13.00	100.40	0.0300	
17.00	100.30	0.0300 /0.0130	Main Channel
18.00	100.00	0.0130	Main Channel
18.50	100.30	0.0130 /0.0300	Main Channel
22.00	100.40	0.0300	
29.00	100.70	0.0300	
32.00	100.70	0.0300	
35.00	101.30	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.06	100.06	.182E+02	0.0	0.47	72.36
0.12	100.12	.729E+02	0.0	0.74	45.58
0.18	100.18	.164E+03	0.1	0.97	34.79
0.24	100.24	.292E+03	0.2	1.18	28.72
0.30	100.30	.456E+03	0.3	1.36	24.75
0.37	100.37	.106E+04	0.6	1.21	27.90
0.44	100.44	.239E+04	1.2	1.05	32.24

0.51	100.51	.422E+04	2.2	1.04	32.38
0.59	100.59	.654E+04	3.5	1.08	31.25
0.66	100.66	.933E+04	5.2	1.13	29.81
0.73	100.73	.129E+05	7.1	1.11	30.53
0.80	100.80	.172E+05	10.4	1.22	27.65
0.87	100.87	.216E+05	14.3	1.34	25.23
0.94	100.94	.261E+05	18.7	1.45	23.23
1.01	101.01	.307E+05	23.7	1.56	21.58
1.09	101.09	.354E+05	29.2	1.67	20.20
1.16	101.16	.402E+05	35.2	1.77	19.03
1.23	101.23	.451E+05	41.7	1.87	18.03
1.30	101.30	.501E+05	48.7	1.97	17.16

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0210)	8.52	1.03	12.25	84.51	0.42	1.10
OUTFLOW: ID= 1 (0236)	8.52	0.50	12.33	84.49	0.34	1.27

ADD HYD (0238)					
1 + 2 = 3					
	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0236):	8.52	0.501	12.33	84.49	
+ ID2= 2 (0237):	50.66	4.184	12.67	92.85	
=====					
ID = 3 (0238):	59.18	4.569	12.67	91.65	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0074)					
1 + 2 = 3					
	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0238):	59.18	4.569	12.67	91.65	
+ ID2= 2 (0072):	1011.26	35.044	14.13	78.26	
=====					
ID = 3 (0074):	1070.44	36.822	14.12	78.69	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0104)					
1 + 2 = 3					
	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0235):	457.23	17.245	14.13	83.19	

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+ ID2= 2 ( 0074): 1070.44 36.822 14.12 78.69
=====
ID = 3 ( 0104): 1527.67 54.066 14.12 80.04

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ROUTE CHN( 0105)|
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
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<----- DATA FOR SECTION ( 16.0) ----->
Distance      Elevation      Manning
  0.00         102.30         0.0500
 10.00         100.30         0.0500
 22.00         100.30         0.0500 /0.0350 Main Channel
 22.50         100.00         0.0350 Main Channel
 23.50         100.30         0.0350 /0.0500 Main Channel
 35.00         100.30         0.0500
 45.00         102.30         0.0500

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<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.100E+02	0.0	0.16	40.58
0.20	100.20	.400E+02	0.0	0.26	25.56
0.30	100.30	.901E+02	0.1	0.34	19.53
0.43	100.43	.137E+04	0.9	0.25	26.16
0.55	100.55	.272E+04	2.5	0.37	17.98
0.68	100.68	.412E+04	4.8	0.47	14.21
0.80	100.80	.559E+04	7.8	0.56	12.01
0.93	100.93	.712E+04	11.3	0.63	10.54
1.05	101.05	.872E+04	15.3	0.70	9.48
1.18	101.18	.104E+05	19.9	0.77	8.67
1.30	101.30	.121E+05	25.1	0.83	8.03
1.43	101.43	.139E+05	30.8	0.89	7.51
1.55	101.55	.157E+05	37.0	0.94	7.08
1.67	101.67	.176E+05	43.8	0.99	6.71
1.80	101.80	.196E+05	51.1	1.04	6.39
1.92	101.92	.216E+05	59.0	1.09	6.11
2.05	102.05	.237E+05	67.4	1.14	5.86
2.17	102.17	.259E+05	76.4	1.18	5.64
2.30	102.30	.281E+05	85.9	1.22	5.45

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0104)	1527.67	54.07	14.12	80.04	1.85	1.06
OUTFLOW: ID= 1 (0105)	1527.67	53.84	14.12	79.85	1.84	1.06

READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB
 STANDHYD (0109)
 ID= 1 DT= 5.0 min

Area (ha)= 42.87
 Total Imp(%)= 56.00 Dir. Conn.(%)= 38.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	24.01	18.86
Dep. Storage (mm)=	1.50	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	534.60	560.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50

4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 81.87
over (min) 10.00 45.00
Storage Coeff. (min)= 7.91 (ii) 40.49 (ii)
Unit Hyd. Tpeak (min)= 10.00 45.00
Unit Hyd. peak (cms)= 0.13 0.03

TOTALS

PEAK FLOW (cms)= 5.67 2.42 6.573 (iii)
TIME TO PEAK (hrs)= 12.25 12.83 12.25
RUNOFF VOLUME (mm)= 123.30 78.98 95.83
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.63 0.77

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM

Filename: C:\Users\p001130E\AppData
ata\Local\Temp\

Ptotal=124.80 mm

f8b850d0-74fd-4ec6-beca-711b43c82dc9\bd175f1

Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB
STANDHYD (0108)
ID= 1 DT= 5.0 min

Area (ha)= 79.90
Total Imp(%)= 56.00 Dir. Conn.(%)= 38.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	44.74	35.16
Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	729.84	757.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr

0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50

4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 68.15
over (min) 10.00 55.00
Storage Coeff. (min)= 9.53 (ii) 51.54 (ii)
Unit Hyd. Tpeak (min)= 10.00 55.00
Unit Hyd. peak (cms)= 0.12 0.02

TOTALS

PEAK FLOW (cms)= 9.91 3.83 11.152 (iii)
TIME TO PEAK (hrs)= 12.25 13.00 12.25
RUNOFF VOLUME (mm)= 123.30 78.98 95.83
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.63 0.77

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia =Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0110)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0108):	79.90	11.152	12.25	95.83
+ ID2= 2 (0109):	42.87	6.573	12.25	95.83

ID = 3 (0110): 122.77 17.725 12.25 95.83

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| RESERVOIR(5011) |
| IN= 2---> OUT= 1 |
DT= 5.0 min

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0001	3.0600	4.3000
0.4100	2.3000	3.9700	4.8000
1.2500	3.1000	4.9100	5.3000
1.9900	3.6000	10.0000	5.4000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0110)	122.770	17.725	12.25	95.83
OUTFLOW: ID= 1 (5011)	122.770	4.831	13.58	95.81

PEAK FLOW REDUCTION [Qout/Qin](%)= 27.26
TIME SHIFT OF PEAK FLOW (min)= 80.00
MAXIMUM STORAGE USED (ha.m.)= 5.2598

| ROUTE CHN(0112) |
IN= 2---> OUT= 1

Routing time step (min)'= 1.00

<----- DATA FOR SECTION (17.0) ----->

Distance	Elevation	Manning	
0.00	190.50	0.0300	
9.00	187.50	0.0300 /0.0130	Main Channel
9.10	187.00	0.0130	Main Channel
10.90	187.00	0.0130	Main Channel
11.00	187.50	0.0130 /0.0300	Main Channel
20.00	190.50	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.17	187.17	.917E+02	0.2	0.81	6.14
0.33	187.33	.187E+03	0.7	1.19	4.22
0.50	187.50	.285E+03	1.4	1.44	3.47
0.69	187.69	.429E+03	2.4	1.69	2.96
0.88	187.88	.637E+03	3.8	1.78	2.80
1.06	188.06	.907E+03	5.5	1.83	2.73
1.25	188.25	.124E+04	7.7	1.87	2.67
1.44	188.44	.164E+04	10.4	1.91	2.62
1.63	188.63	.210E+04	13.6	1.94	2.57
1.81	188.81	.262E+04	17.3	1.98	2.52
2.00	189.00	.321E+04	21.7	2.03	2.47

2.19	189.19	.386E+04	26.6	2.07	2.41
2.38	189.38	.457E+04	32.3	2.12	2.36
2.56	189.56	.535E+04	38.6	2.16	2.31
2.75	189.75	.619E+04	45.7	2.21	2.26
2.94	189.94	.710E+04	53.5	2.26	2.21
3.13	190.13	.806E+04	62.1	2.31	2.16
3.31	190.31	.909E+04	71.6	2.36	2.12
3.50	190.50	.102E+05	81.9	2.41	2.07

		<----- hydrograph ----->				<-pipe / channel->	
		AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
		(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (5011)	122.77	4.83	13.58	95.81	0.99	1.81
OUTFLOW:	ID= 1 (0112)	122.77	4.83	13.67	83.99	0.98	1.81

**** WARNING : THE HYD WAS CUT TO 2000 POINTS

ADD HYD (0107)					
1 + 2 = 3					

		AREA	QPEAK	TPEAK	R.V.
		(ha)	(cms)	(hrs)	(mm)
ID1=	1 (0105):	1527.67	53.837	14.12	79.85
+	ID2= 2 (0112):	122.77	4.828	13.67	83.99
=====					
ID =	3 (0107):	1650.44	58.476	14.12	80.16

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ROUTE CHN(0114)	
IN= 2---> OUT= 1	

	Routing time step (min)'= 1.00

<----- DATA FOR SECTION (18.0) ----->				
Distance	Elevation	Manning		
0.00	102.30	0.0500		
10.00	100.30	0.0500		
66.75	100.30	0.0500 /0.0350	Main Channel	
67.50	100.00	0.0350	Main Channel	
68.25	100.30	0.0350 /0.0500	Main Channel	
125.00	100.30	0.0500		
135.00	102.30	0.0500		

<----- TRAVEL TIME TABLE ----->						
DEPTH	ELEV	VOLUME	FLOW RATE	VELOCITY	TRAV.TIME	
(m)	(m)	(cu.m.)	(cms)	(m/s)	(min)	
0.10	100.10	.250E+02	0.0	0.17	100.97	
0.20	100.20	.100E+03	0.0	0.26	63.61	
0.30	100.30	.226E+03	0.1	0.34	48.77	
0.43	100.43	.147E+05	3.4	0.23	72.16	

0.55	100.55	.293E+05	10.5	0.36	46.47
0.68	100.68	.441E+05	20.5	0.47	35.77
0.80	100.80	.590E+05	33.1	0.56	29.70
0.93	100.93	.741E+05	48.0	0.65	25.72
1.05	101.05	.893E+05	65.1	0.73	22.87
1.18	101.18	.105E+06	84.2	0.80	20.72
1.30	101.30	.120E+06	105.3	0.88	19.03
1.43	101.43	.136E+06	128.3	0.94	17.65
1.55	101.55	.152E+06	153.2	1.01	16.51
1.67	101.67	.168E+06	179.8	1.07	15.55
1.80	101.80	.184E+06	208.3	1.13	14.72
1.92	101.92	.200E+06	238.4	1.19	14.00
2.05	102.05	.217E+06	270.2	1.25	13.37
2.17	102.17	.233E+06	303.7	1.30	12.81
2.30	102.30	.250E+06	338.8	1.35	12.31

		AREA	<---- hydrograph ---->			<-pipe / channel->	
		(ha)	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
			(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0107)	1650.44	58.48	14.12	80.16	1.00	0.70
OUTFLOW:	ID= 1 (0114)	1650.44	56.45	14.47	79.29	0.99	0.69

 | READ STORM |
Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
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 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50

4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB							
NASHYD (0218)	Area (ha)=	2.52	Curve Number (CN)=	80.0			
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	0.81					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50

2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.119

PEAK FLOW (cms)= 0.190 (i)

TIME TO PEAK (hrs)= 13.000

RUNOFF VOLUME (mm)= 78.297

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.627

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB
STANDHYD (0215)
ID= 1 DT= 5.0 min

Area (ha)= 1.84
Total Imp(%)= 80.00 Dir. Conn.(%)= 64.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.47	0.37
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	2.00

Length (m)= 110.75 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50

3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 240.48
over (min) 5.00 10.00
Storage Coeff. (min)= 2.82 (ii) 6.56 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.28 0.14

TOTALS
PEAK FLOW (cms)= 0.50 0.21 0.706 (iii)
TIME TO PEAK (hrs)= 12.25 12.25 12.25
RUNOFF VOLUME (mm)= 123.80 95.17 113.49
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.76 0.91

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0239) |
| 1 + 2 = 3 |
-----

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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0215):	1.84	0.706	12.25	113.49
+ ID2= 2 (0218):	2.52	0.190	13.00	78.30
=====				
ID = 3 (0239):	4.36	0.774	12.25	93.15

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ROUTE CHN( 0240) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00
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<----- DATA FOR SECTION ( 2.0) ----->

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Distance	Elevation	Manning	
0.00	101.30	0.0300	
3.00	100.70	0.0300	
6.00	100.70	0.0300	
13.00	100.40	0.0300	
17.00	100.30	0.0300 /0.0130	Main Channel
18.00	100.00	0.0130	Main Channel
18.50	100.30	0.0130 /0.0300	Main Channel
22.00	100.40	0.0300	
29.00	100.70	0.0300	
32.00	100.70	0.0300	
35.00	101.30	0.0300	

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<----- TRAVEL TIME TABLE ----->

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DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.06	100.06	.112E+02	0.0	0.28	73.92
0.12	100.12	.449E+02	0.0	0.45	46.56
0.18	100.18	.101E+03	0.0	0.59	35.54
0.24	100.24	.180E+03	0.1	0.71	29.33
0.30	100.30	.281E+03	0.2	0.82	25.28
0.37	100.37	.653E+03	0.4	0.73	28.50
0.44	100.44	.147E+04	0.7	0.63	32.94
0.51	100.51	.260E+04	1.3	0.63	33.08
0.59	100.59	.403E+04	2.1	0.65	31.93
0.66	100.66	.575E+04	3.1	0.68	30.45
0.73	100.73	.797E+04	4.3	0.67	31.18
0.80	100.80	.106E+05	6.3	0.74	28.25
0.87	100.87	.133E+05	8.6	0.81	25.77
0.94	100.94	.161E+05	11.3	0.88	23.73
1.01	101.01	.189E+05	14.3	0.94	22.04
1.09	101.09	.218E+05	17.6	1.01	20.64

1.16	101.16	.248E+05	21.2	1.07	19.44
1.23	101.23	.278E+05	25.2	1.13	18.42
1.30	101.30	.309E+05	29.4	1.19	17.53

		<----- hydrograph ----->			<-pipe / channel->		
		AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
		(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0239)	4.36	0.77	12.25	93.15	0.45	0.63
OUTFLOW:	ID= 1 (0240)	4.36	0.36	12.42	93.07	0.36	0.74

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB

NASHYD (0216)	Area (ha)= 10.76	Curve Number (CN)= 82.0
ID= 1 DT= 5.0 min	Ia (mm)= 5.00	# of Linear Res.(N)= 3.00
-----	U.H. Tp(hrs)= 1.43	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50

3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.287

PEAK FLOW (cms)= 0.554 (i)

TIME TO PEAK (hrs)= 13.667

RUNOFF VOLUME (mm)= 81.751

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.655

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0241)				
1 + 2 = 3				

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0216):	10.76	0.554	13.67	81.75
+ ID2= 2 (0240):	4.36	0.360	12.42	93.07

=====
 ID = 3 (0241): 15.12 0.794 13.42 85.02

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | READ STORM | Filename: C:\Users\p001130E\AppData
 | | ata\Local\Temp\
 | | f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 | Ptotal=124.80 mm | Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | NASHYD (0219) | Area (ha)= 1.37 Curve Number (CN)= 80.0
 | ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
 | | U.H. Tp(hrs)= 0.23

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50

4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.228

PEAK FLOW (cms)= 0.258 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 78.211

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.627

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25

1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | STANDHYD (0220) |
ID= 1 DT= 5.0 min

Area (ha)= 3.24
 Total Imp(%)= 75.00 Dir. Conn.(%)= 60.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	2.43	0.81
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	146.97	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25

0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50

5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 208.79
over (min) 5.00 10.00
Storage Coeff. (min)= 3.34 (ii) 7.54 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.26 0.13

TOTALS

PEAK FLOW (cms)= 0.82 0.38 1.197 (iii)
TIME TO PEAK (hrs)= 12.25 12.25 12.25
RUNOFF VOLUME (mm)= 123.80 92.39 111.23
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.74 0.89

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0295) |
| IN= 2---> OUT= 1 |
DT= 5.0 min

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0550	0.1500
0.0003	0.0700	0.1500	0.2100
0.0130	0.1100	*****	0.2200

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0220)	3.240	1.197	12.25	111.23
OUTFLOW: ID= 1 (0295)	3.240	0.341	12.50	92.88

PEAK FLOW REDUCTION [Qout/Qin](%)= 28.47
TIME SHIFT OF PEAK FLOW (min)= 15.00
MAXIMUM STORAGE USED (ha.m.)= 0.2115

ADD HYD (0242)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0219):	1.37	0.258	12.33	78.21
+ ID2= 2 (0295):	3.24	0.341	12.50	92.88
=====				
ID = 3 (0242):	4.61	0.541	12.50	88.52

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0243)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0241):	15.12	0.794	13.42	85.02
+ ID2= 2 (0242):	4.61	0.541	12.50	88.52
=====				
ID = 3 (0243):	19.73	1.131	12.50	85.84

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData
	ata\Local\Temp\
	f8b850d0-74fd-4ec6-beca-711b43c82dc9\bd175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50

4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB |
| NASHYD ( 0217) | Area (ha)= 36.62 Curve Number (CN)= 80.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
-----
| U.H. Tp(hrs)= 1.11

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50

2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 1.260

PEAK FLOW (cms)= 2.182 (i)

TIME TO PEAK (hrs)= 13.333

RUNOFF VOLUME (mm)= 78.298
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.627

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0244) |
| 1 + 2 = 3 |
-----
      AREA      QPEAK      TPEAK      R.V.
      (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0217): 36.62  2.182  13.33  78.30
+ ID2= 2 ( 0243): 19.73  1.131  12.50  85.84
=====
ID = 3 ( 0244): 56.35  3.140  13.33  80.94
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| READ STORM |
|           |
| Ptotal=124.80 mm |
-----
Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Comments: 50yr 24hr 15min SCS
  
```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		

6.00	2.00	12.25	152.76	18.50	2.25
6.25	2.00	12.50	17.97	18.75	2.25

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| CALIB |
| NASHYD ( 0221) | Area (ha)= 2.45 Curve Number (CN)= 80.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
|-----|
| U.H. Tp(hrs)= 0.65

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50

2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.144

PEAK FLOW (cms)= 0.218 (i)

TIME TO PEAK (hrs)= 12.833

RUNOFF VOLUME (mm)= 78.296

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.627

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0245)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0221):	2.45	0.218	12.83	78.30
+ ID2= 2 (0244):	56.35	3.140	13.33	80.94
=====				
ID = 3 (0245):	58.80	3.310	13.25	80.83

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB

| STANDHYD (0222) | Area (ha)= 17.81
 | ID= 1 DT= 5.0 min | Total Imp(%)= 25.00 Dir. Conn.(%)= 25.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	4.45	13.36
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.61	0.61
Length (m)=	344.58	40.00
Mannings n =	0.013	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50

3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)=	152.76	130.82
over (min)	5.00	15.00
Storage Coeff. (min)=	5.26 (ii)	13.19 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.21	0.08

TOTALS			
PEAK FLOW (cms)=	1.81	2.99	4.442 (iii)
TIME TO PEAK (hrs)=	12.25	12.33	12.25
RUNOFF VOLUME (mm)=	123.80	92.33	100.20
TOTAL RAINFALL (mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT =	0.99	0.74	0.80

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0246)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0222):		17.81	4.442	12.25	100.20
+ ID2= 2 (0245):		58.80	3.310	13.25	80.83
=====					
ID = 3 (0246):		76.61	5.903	12.25	85.33

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50

5.75	2.00	12.00	36.94	18.25	2.25
6.00	2.00	12.25	152.76	18.50	2.25
6.25	2.00	12.50	17.97	18.75	2.25

 | CALIB |
 | STANDHYD (0223) | Area (ha)= 2.09
 | ID= 1 DT= 5.0 min | Total Imp(%)= 75.00 Dir. Conn.(%)= 60.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.57	0.52
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	118.04	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50

2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 208.79
 over (min) 5.00 10.00
 Storage Coeff. (min)= 2.93 (ii) 7.13 (ii)
 Unit Hyd. Tpeak (min)= 5.00 10.00

Unit Hyd. peak (cms)=	0.28	0.14	
			TOTALS
PEAK FLOW (cms)=	0.53	0.25	0.779 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	123.80	92.39	111.23
TOTAL RAINFALL (mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT =	0.99	0.74	0.89

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0247)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0223):	2.09	0.779	12.25	111.23
+ ID2= 2 (0246):	76.61	5.903	12.25	85.33
=====				
ID = 3 (0247):	78.70	6.682	12.25	86.02

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData
Ptotal=124.80 mm	ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
	Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50

3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB          |
| STANDHYD ( 0224) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 5.94
Total Imp(%)= 23.00  Dir. Conn.(%)= 23.00

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		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	1.37	4.57
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.65	0.65
Length	(m)=	199.00	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25

1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50

5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 114.79
over (min) 5.00 15.00
Storage Coeff. (min)= 3.71 (ii) 13.07 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.25 0.08

TOTALS

PEAK FLOW (cms)= 0.57 0.89 1.344 (iii)
TIME TO PEAK (hrs)= 12.25 12.33 12.25
RUNOFF VOLUME (mm)= 123.80 79.67 89.82
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.64 0.72

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0248) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0224):  5.94    1.344    12.25    89.82
+ ID2= 2 ( 0247): 78.70    6.682    12.25    86.02
=====
ID = 3 ( 0248):  84.64    8.026    12.25    86.29

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ADD HYD ( 0116) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0114): 1650.44  56.449    14.47    79.29
+ ID2= 2 ( 0248):  84.64    8.026    12.25    86.29
=====
ID = 3 ( 0116): 1735.08  58.928    14.45    79.61

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | READ STORM |
Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | STANDHYD (0117) |
ID= 1 DT= 5.0 min

Area (ha)= 75.00
 Total Imp(%)= 56.00 Dir. Conn.(%)= 38.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	42.00	33.00
Dep. Storage (mm)=	1.50	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	739.00	739.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50

4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 68.15
over (min) 10.00 55.00
Storage Coeff. (min)= 9.61 (ii) 51.01 (ii)
Unit Hyd. Tpeak (min)= 10.00 55.00
Unit Hyd. peak (cms)= 0.11 0.02

TOTALS

PEAK FLOW (cms)= 9.28 3.61 10.448 (iii)
TIME TO PEAK (hrs)= 12.25 13.00 12.25
RUNOFF VOLUME (mm)= 123.30 78.98 95.83
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.63 0.77

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(5012) | OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
DT= 5.0 min
OUTFLOW STORAGE | OUTFLOW STORAGE
(cms) (ha.m.) | (cms) (ha.m.)

0.0000	0.0001		1.9600	2.7000
0.2600	1.5000		2.5300	3.0000
0.8000	2.0000		3.1400	3.4000
1.2700	2.3000		10.0000	3.5000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0117)	75.000	10.448	12.25	95.83
OUTFLOW: ID= 1 (5012)	75.000	2.843	13.75	95.80

PEAK FLOW REDUCTION [Qout/Qin](%)= 27.21
 TIME SHIFT OF PEAK FLOW (min)= 90.00
 MAXIMUM STORAGE USED (ha.m.)= 3.2062

 | ROUTE CHN(0119) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (19.0) ----->

Distance	Elevation	Manning	
0.00	190.50	0.0300	
9.00	187.50	0.0300 /0.0130	Main Channel
9.10	187.00	0.0130	Main Channel
10.90	187.00	0.0130	Main Channel
11.00	187.50	0.0130 /0.0300	Main Channel
20.00	190.50	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.17	187.17	.122E+03	0.2	0.81	8.19
0.33	187.33	.249E+03	0.7	1.19	5.62
0.50	187.50	.380E+03	1.4	1.44	4.62
0.69	187.69	.572E+03	2.4	1.69	3.95
0.88	187.88	.849E+03	3.8	1.78	3.74
1.06	188.06	.121E+04	5.5	1.83	3.63
1.25	188.25	.166E+04	7.7	1.87	3.56
1.44	188.44	.218E+04	10.4	1.91	3.50
1.63	188.63	.280E+04	13.6	1.94	3.43
1.81	188.81	.350E+04	17.3	1.98	3.36
2.00	189.00	.428E+04	21.7	2.03	3.29
2.19	189.19	.515E+04	26.6	2.07	3.22
2.38	189.38	.610E+04	32.3	2.12	3.15
2.56	189.56	.714E+04	38.6	2.16	3.08
2.75	189.75	.826E+04	45.7	2.21	3.01
2.94	189.94	.946E+04	53.5	2.26	2.95
3.13	190.13	.107E+05	62.1	2.31	2.88
3.31	190.31	.121E+05	71.6	2.36	2.82
3.50	190.50	.136E+05	81.9	2.41	2.76

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (5012)	75.00	2.84	13.75	95.80	0.75	1.72
OUTFLOW: ID= 1 (0119)	75.00	2.84	13.77	83.07	0.74	1.71

***** WARNING : THE HYD WAS CUT TO 2000 POINTS

```

-----
| ADD HYD ( 0120) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0116): 1735.08  58.928   14.45   79.61
+ ID2= 2 ( 0119):  75.00   2.841   13.77   83.07
=====
ID = 3 ( 0120): 1810.08  61.586   14.45   79.76

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| READ STORM |
|           |
| Ptotal=124.80 mm |
-----
Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Comments: 50yr 24hr 15min SCS

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50

5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
 | STANDHYD (0121) |
 | ID= 1 DT= 5.0 min |

Area (ha)= 27.00
 Total Imp(%)= 43.00 Dir. Conn.(%)= 43.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	11.61	15.39
Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	424.26	424.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50

2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 49.87
 over (min) 5.00 45.00
 Storage Coeff. (min)= 6.89 (ii) 40.50 (ii)

Unit Hyd. Tpeak (min)=	5.00	45.00	
Unit Hyd. peak (cms)=	0.18	0.03	
			TOTALS
PEAK FLOW (cms)=	4.49	1.20	4.925 (iii)
TIME TO PEAK (hrs)=	12.25	12.83	12.25
RUNOFF VOLUME (mm)=	123.30	68.46	92.04
TOTAL RAINFALL (mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT =	0.99	0.55	0.74

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0123) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0120): 1810.08 61.586  14.45  79.76
+ ID2= 2 ( 0121):  27.00  4.925  12.25  92.04
-----
ID = 3 ( 0123): 1837.08 62.042  14.45  79.94

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0134) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0123): 1837.08 62.042  14.45  79.94
+ ID2= 2 ( 0133):  206.50  9.454  13.52  58.05
-----
ID = 3 ( 0134): 2043.58 69.021  14.25  77.73

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0135) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
-----

```

```

<----- DATA FOR SECTION ( 23.0) ----->
Distance    Elevation    Manning
   0.00      102.30      0.0500
  10.00      100.30      0.0500
  24.00      100.30      0.0500 /0.0350  Main Channel
  25.00      100.00      0.0350          Main Channel

```

25.50	100.30	0.0350 / 0.0500	Main Channel
40.00	100.30	0.0500	
50.00	102.30	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.750E+01	0.0	0.12	43.04
0.20	100.20	.300E+02	0.0	0.18	27.12
0.30	100.30	.676E+02	0.1	0.24	20.72
0.43	100.43	.122E+04	0.7	0.18	28.28
0.55	100.55	.241E+04	2.1	0.26	19.20
0.68	100.68	.365E+04	4.0	0.33	15.10
0.80	100.80	.494E+04	6.5	0.39	12.71
0.93	100.93	.628E+04	9.4	0.45	11.13
1.05	101.05	.766E+04	12.8	0.50	9.99
1.18	101.18	.909E+04	16.6	0.55	9.12
1.30	101.30	.106E+05	20.9	0.59	8.44
1.43	101.43	.121E+05	25.6	0.63	7.88
1.55	101.55	.137E+05	30.7	0.67	7.42
1.67	101.67	.153E+05	36.2	0.71	7.03
1.80	101.80	.169E+05	42.2	0.75	6.69
1.92	101.92	.187E+05	48.6	0.78	6.39
2.05	102.05	.204E+05	55.5	0.82	6.13
2.17	102.17	.222E+05	62.8	0.85	5.90
2.30	102.30	.241E+05	70.5	0.88	5.69

		<---- hydrograph ---->			<-pipe / channel->	
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0134)	2043.58	69.02	14.25	77.73	2.28	0.87
OUTFLOW: ID= 1 (0135)	2043.58	68.91	14.27	77.56	2.27	0.87

ADD HYD (0137)					
1 + 2 = 3					
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	
ID1= 1 (0135):	2043.58	68.915	14.27	77.56	
+ ID2= 2 (0136):	20.00	1.560	12.92	65.66	
=====					
ID = 3 (0137):	2063.58	69.340	14.27	77.44	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ROUTE CHN(0138)	
IN= 2---> OUT= 1	Routing time step (min)'= 1.00

<----- DATA FOR SECTION (24.0) ----->

Distance	Elevation	Manning	
0.00	192.00	0.0500	
150.00	190.00	0.0500	
170.00	187.50	0.0500	
190.00	186.00	0.0500	
192.00	185.60	0.0500 /0.0350	Main Channel
194.00	185.60	0.0350 /0.0500	Main Channel
196.00	186.00	0.0500	
215.00	187.50	0.0500	
285.00	190.00	0.0500	
300.00	190.50	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.26	185.86	.127E+04	0.7	0.86	29.24
0.52	186.12	.370E+04	2.7	1.11	22.54
0.77	186.37	.849E+04	7.0	1.24	20.18
1.03	186.63	.159E+05	14.7	1.39	18.00
1.29	186.89	.258E+05	26.6	1.55	16.16
1.55	187.15	.384E+05	43.7	1.71	14.66
1.81	187.41	.536E+05	66.5	1.86	13.43
2.06	187.66	.715E+05	94.6	1.98	12.60
2.32	187.92	.930E+05	130.4	2.10	11.88
2.58	188.18	.118E+06	175.5	2.23	11.21
2.84	188.44	.147E+06	230.6	2.36	10.61
3.09	188.69	.179E+06	296.4	2.48	10.06
3.35	188.95	.215E+06	373.8	2.61	9.58
3.61	189.21	.254E+06	463.6	2.74	9.14
3.87	189.47	.297E+06	566.5	2.86	8.75
4.13	189.73	.344E+06	683.3	2.98	8.39
4.38	189.98	.394E+06	814.7	3.10	8.06
4.64	190.24	.451E+06	898.4	2.99	8.37
4.90	190.50	.518E+06	1025.6	2.97	8.42

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0137)	2063.58	69.34	14.27	77.44	1.83	1.87
OUTFLOW: ID= 1 (0138)	2063.58	68.22	14.55	77.20	1.82	1.87

 | ADD HYD (0140) |
1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0138):	2063.58	68.215	14.55	77.20
+ ID2= 2 (0139):	58.00	3.957	13.08	65.66

```
=====
ID = 3 ( 0140): 2121.58 69.453 14.53 76.89
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
-----
| ADD HYD ( 0142) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0140): 2121.58 69.453 14.53 76.89
+ ID2= 2 ( 0141): 116.00 4.380 13.58 49.64
-----
ID = 3 ( 0142): 2237.58 72.646 14.42 75.48
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
-----
| ROUTE CHN( 0143) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
```

```
<----- DATA FOR SECTION ( 25.0) ----->
Distance      Elevation      Manning
  0.00         190.00         0.0500
 55.00         187.50         0.0500
100.00         186.00         0.0500
102.00         185.40         0.0500 /0.0350 Main Channel
104.00         185.40         0.0350 /0.0500 Main Channel
106.00         186.00         0.0500
156.00         187.50         0.0500
200.00         188.00         0.0500
```

```
<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)        (m)        (cu.m.)      (cms)          (m/s)         (min)
0.14      185.54      .235E+03      0.1            0.25          45.97
0.27      185.67      .558E+03      0.3            0.37          31.53
0.41      185.81      .968E+03      0.6            0.45          25.73
0.55      185.95      .147E+04      1.1            0.52          22.42
0.68      186.08      .219E+04      1.6            0.50          23.34
0.82      186.22      .369E+04      2.5            0.47          24.93
0.96      186.36      .602E+04      4.0            0.46          25.27
1.09      186.49      .918E+04      6.2            0.47          24.63
1.23      186.63      .132E+05      9.3            0.50          23.52
1.37      186.77      .180E+05      13.5           0.52          22.27
1.51      186.91      .237E+05      18.7           0.55          21.04
1.64      187.04      .301E+05      25.3           0.59          19.88
1.78      187.18      .374E+05      33.1           0.62          18.83
1.92      187.32      .456E+05      42.5           0.65          17.88
2.05      187.45      .546E+05      53.4           0.69          17.03
2.19      187.59      .645E+05      64.8           0.70          16.59
```

2.33	187.73	.758E+05	77.9	0.72	16.22
2.46	187.86	.886E+05	93.6	0.74	15.78
2.60	188.00	.103E+06	112.0	0.76	15.31

		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW :	ID= 2 (0142)	2237.58	72.65	14.42	75.48	2.27	0.71
OUTFLOW:	ID= 1 (0143)	2237.58	70.77	14.73	75.21	2.25	0.71

```

-----
| ADD HYD ( 0145) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0143): 2237.58  70.770   14.73   75.21
+ ID2= 2 ( 0144):  28.00    3.574   12.50   65.68
=====
ID = 3 ( 0145): 2265.58  71.027   14.73   75.10

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0146) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
-----

```

```

<----- DATA FOR SECTION ( 26.0) ----->
Distance      Elevation      Manning
  0.00         190.00         0.0500
 100.00        187.50         0.0500
 170.00        185.00         0.0500
 210.00        183.00         0.0500
 212.00        182.60         0.0500 /0.0350 Main Channel
 214.00        182.60         0.0350 /0.0500 Main Channel
 216.00        183.00         0.0500
 256.00        185.00         0.0500
 276.00        187.50         0.0500
 350.00        189.50         0.0500

```

```

<----- TRAVEL TIME TABLE ----->
DEPTH    ELEV    VOLUME    FLOW RATE    VELOCITY    TRAV.TIME
(m)      (m)     (cu.m.)   (cms)        (m/s)      (min)
0.36    182.96  .305E+04   0.6           0.43       86.19
0.73    183.33  .125E+05   2.7           0.47       77.96
1.09    183.69  .335E+05   8.4           0.55       66.33
1.45    184.05  .662E+05  19.5          0.65       56.52
1.82    184.42  .110E+06  37.4          0.74       49.26
2.18    184.78  .166E+06  63.2          0.84       43.81
2.54    185.14  .234E+06  98.7          0.93       39.44

```

2.91	185.51	.312E+06	145.2	1.02	35.77
3.27	185.87	.400E+06	202.9	1.12	32.86
3.63	186.23	.499E+06	272.7	1.20	30.50
3.99	186.59	.608E+06	355.2	1.28	28.55
4.36	186.96	.728E+06	451.3	1.36	26.89
4.72	187.32	.858E+06	561.8	1.44	25.47
5.08	187.68	.100E+07	668.9	1.47	24.93
5.45	188.05	.116E+07	781.8	1.48	24.81
5.81	188.41	.135E+07	920.9	1.50	24.42
6.17	188.77	.156E+07	1086.6	1.54	23.88
6.54	189.14	.179E+07	1280.0	1.58	23.27
6.90	189.50	.204E+07	1502.3	1.62	22.63

		<----- hydrograph ----->				<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL	
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)	
INFLOW : ID= 2 (0145)	2265.58	71.03	14.73	75.10	2.26	0.86	
OUTFLOW: ID= 1 (0146)	2265.58	64.73	15.33	74.24	2.19	0.84	

```

-----
| ADD HYD ( 0148) |
| 1 + 2 = 3 |
-----

```

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0146):	2265.58	64.731	15.33	74.24
+ ID2= 2 (0147):	218.00	9.982	13.75	65.66
=====				
ID = 3 (0148):	2483.58	70.254	15.18	73.48

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0149) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
-----

```

```

<----- DATA FOR SECTION ( 27.0) ----->

```

Distance	Elevation	Manning	
0.00	190.00	0.0500	
140.00	187.50	0.0500	
230.00	185.00	0.0500	
300.00	183.00	0.0500	
302.00	182.60	0.0500 /0.0350	Main Channel
304.00	182.60	0.0350 /0.0500	Main Channel
306.00	183.00	0.0500	
320.00	185.00	0.0500	
345.00	187.50	0.0500	
450.00	189.50	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.36	182.96	.381E+04	1.0	0.73	62.86
0.73	183.33	.159E+05	4.7	0.81	56.86
1.09	183.69	.432E+05	14.8	0.94	48.61
1.45	184.05	.858E+05	34.5	1.11	41.44
1.82	184.42	.144E+06	66.3	1.27	36.10
2.18	184.78	.217E+06	112.5	1.43	32.09
2.54	185.14	.305E+06	174.6	1.58	29.09
2.91	185.51	.410E+06	255.0	1.71	26.77
3.27	185.87	.531E+06	356.7	1.85	24.82
3.63	186.23	.669E+06	481.7	1.98	23.16
3.99	186.59	.824E+06	632.0	2.11	21.73
4.36	186.96	.995E+06	809.4	2.24	20.50
4.72	187.32	.118E+07	1015.9	2.36	19.42
5.08	187.68	.139E+07	1219.0	2.41	19.02
5.45	188.05	.164E+07	1444.2	2.43	18.88
5.81	188.41	.192E+07	1726.8	2.47	18.53
6.17	188.77	.224E+07	2067.1	2.53	18.08
6.54	189.14	.261E+07	2467.6	2.60	17.60
6.90	189.50	.301E+07	2932.0	2.68	17.09

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0148)	2483.58	70.25	15.18	73.48	1.85	1.28
OUTFLOW: ID= 1 (0149)	2483.58	67.01	15.73	72.83	1.82	1.27

ADD HYD (0151)					
1 + 2 = 3					
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	
ID1= 1 (0149):	2483.58	67.009	15.73	72.83	
+ ID2= 2 (0150):	125.00	8.330	13.08	65.66	
=====					
ID = 3 (0151):	2608.58	68.235	15.70	72.49	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
-------------	---------------	-------------	---------------	-------------	---------------	-------------	---------------

0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB          |
| NASHYD ( 0300)|
| ID= 1 DT= 5.0 min |
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Area      (ha)= 5.92   Curve Number (CN)= 74.0
Ia        (mm)= 5.00   # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.37

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25

1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50

5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.611

PEAK FLOW (cms)= 0.688 (i)

TIME TO PEAK (hrs)= 12.500

RUNOFF VOLUME (mm)= 68.644

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.550

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ROUTE CHN(0306) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 5.00

<----- DATA FOR SECTION (2.0) ----->

Distance	Elevation	Manning	
0.00	101.30	0.0300	
3.00	100.70	0.0300	
6.00	100.70	0.0300	
13.00	100.40	0.0300	
17.00	100.30	0.0300 /0.0130	Main Channel
18.00	100.00	0.0130	Main Channel
18.50	100.30	0.0130 /0.0300	Main Channel
22.00	100.40	0.0300	
29.00	100.70	0.0300	
32.00	100.70	0.0300	
35.00	101.30	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.06	100.06	.716E+01	0.0	0.64	20.83
0.12	100.12	.287E+02	0.0	1.01	13.12
0.18	100.18	.645E+02	0.1	1.33	10.01
0.24	100.24	.115E+03	0.2	1.61	8.26
0.30	100.30	.179E+03	0.4	1.86	7.12
0.37	100.37	.417E+03	0.9	1.65	8.03
0.44	100.44	.938E+03	1.7	1.43	9.28

0.51	100.51	.166E+04	3.0	1.42	9.32
0.59	100.59	.257E+04	4.8	1.47	9.00
0.66	100.66	.367E+04	7.1	1.55	8.58
0.73	100.73	.508E+04	9.6	1.51	8.79
0.80	100.80	.677E+04	14.2	1.67	7.96
0.87	100.87	.849E+04	19.5	1.83	7.26
0.94	100.94	.103E+05	25.6	1.98	6.69
1.01	101.01	.121E+05	32.4	2.14	6.21
1.09	101.09	.139E+05	39.9	2.28	5.81
1.16	101.16	.158E+05	48.1	2.42	5.48
1.23	101.23	.177E+05	56.9	2.56	5.19
1.30	101.30	.197E+05	66.5	2.69	4.94

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0300)	5.92	0.69	12.50	68.64	0.34	1.73
OUTFLOW: ID= 1 (0306)	5.92	0.63	12.67	68.64	0.33	1.75

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| READ STORM |
|           |
| Ptotal=124.80 mm |
|           |
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Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Comments: 50yr 24hr 15min SCS

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50

5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB							
NASHYD (0304)	Area	(ha)=	6.29	Curve Number	(CN)=	82.0	
ID= 1 DT= 5.0 min	Ia	(mm)=	5.00	# of Linear Res.(N)=	3.00		
	U.H. Tp	(hrs)=	0.28				

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50

2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.858

PEAK FLOW (cms)= 1.071 (i)
 TIME TO PEAK (hrs)= 12.417
 RUNOFF VOLUME (mm)= 81.710
 TOTAL RAINFALL (mm)= 124.800
 RUNOFF COEFFICIENT = 0.655

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdcl75f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

CALIB
 STANDHYD (0305)
 ID= 1 DT= 5.0 min

Area (ha)= 2.18
 Total Imp(%)= 90.00 Dir. Conn.(%)= 90.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.96	0.22
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.96	2.00
Length (m)=	120.55	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50

3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)=	152.76	114.79
over (min)	5.00	5.00
Storage Coeff. (min)=	2.44 (ii)	4.92 (ii)
Unit Hyd. Tpeak (min)=	5.00	5.00
Unit Hyd. peak (cms)=	0.30	0.22

			TOTALS
PEAK FLOW (cms)=	0.83	0.07	0.898 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	123.80	79.67	119.39
TOTAL RAINFALL (mm)=	124.80	124.80	124.80
RUNOFF COEFFICIENT =	0.99	0.64	0.96

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ADD HYD (0310) |
1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0304):	6.29	1.071	12.42	81.71
+ ID2= 2 (0305):	2.18	0.898	12.25	119.39
=====				
ID = 3 (0310):	8.47	1.770	12.25	91.41

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | READ STORM |
Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

 | CALIB |
NASHYD (0301)

Area (ha)= 5.82 Curve Number (CN)= 83.0

|ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.66

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50

3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.337

PEAK FLOW (cms)= 0.548 (i)

TIME TO PEAK (hrs)= 12.833

RUNOFF VOLUME (mm)= 83.526

TOTAL RAINFALL (mm)= 124.800

RUNOFF COEFFICIENT = 0.669

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=124.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
 Comments: 50yr 24hr 15min SCS

TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN

hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50
3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

| CALIB |
| STANDHYD (0302) |
| ID= 1 DT= 5.0 min |

Area (ha)= 11.25
Total Imp(%)= 75.00 Dir. Conn.(%)= 60.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	8.44	2.81
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.68	2.00
Length (m)=	273.86	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25

0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25
1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50

4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Max.Eff.Inten.(mm/hr)= 152.76 208.79
over (min) 5.00 10.00
Storage Coeff. (min)= 4.43 (ii) 8.63 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.23 0.12

TOTALS

PEAK FLOW (cms)= 2.79 1.26 4.048 (iii)
TIME TO PEAK (hrs)= 12.25 12.25 12.25
RUNOFF VOLUME (mm)= 123.80 92.39 111.23
TOTAL RAINFALL (mm)= 124.80 124.80 124.80
RUNOFF COEFFICIENT = 0.99 0.74 0.89

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| ADD HYD ( 0308) |
| 1 + 2 = 3 |
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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0301):	5.82	0.548	12.83	83.53
+ ID2= 2 (0302):	11.25	4.048	12.25	111.23
=====				
ID = 3 (0308):	17.07	4.285	12.25	101.79

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0309)				
1 + 2 = 3				
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0308):	17.07	4.285	12.25	101.79
+ ID2= 2 (0310):	8.47	1.770	12.25	91.41
=====				
ID = 3 (0309):	25.54	6.055	12.25	98.34

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0296)				
IN= 2---> OUT= 1				
DT= 5.0 min				
OVERFLOW IS OFF				
	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	1.2770	0.9900
	0.3830	0.6200	*****	1.0000
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0309)	25.540	6.055	12.25	98.34
OUTFLOW: ID= 1 (0296)	25.540	2.882	12.67	98.33

PEAK FLOW REDUCTION [Qout/Qin](%)= 47.59
 TIME SHIFT OF PEAK FLOW (min)= 25.00
 MAXIMUM STORAGE USED (ha.m.)= 1.0036

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\bdc175f1
Ptotal=124.80 mm	Comments: 50yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.25	12.75	17.97	19.00	2.25
0.50	1.37	6.75	2.25	13.00	9.24	19.25	2.25
0.75	1.37	7.00	2.25	13.25	9.24	19.50	2.25
1.00	1.37	7.25	2.25	13.50	6.74	19.75	2.25
1.25	1.37	7.50	2.75	13.75	6.74	20.00	2.25
1.50	1.37	7.75	2.75	14.00	5.24	20.25	2.25
1.75	1.37	8.00	2.75	14.25	5.24	20.50	1.50
2.00	1.37	8.25	2.75	14.50	3.74	20.75	1.50
2.25	1.37	8.50	3.24	14.75	3.74	21.00	1.50
2.50	1.62	8.75	3.24	15.00	3.74	21.25	1.50
2.75	1.62	9.00	3.49	15.25	3.74	21.50	1.50

3.00	1.62	9.25	3.49	15.50	3.74	21.75	1.50
3.25	1.62	9.50	3.99	15.75	3.74	22.00	1.50
3.50	1.62	9.75	3.99	16.00	3.74	22.25	1.50
3.75	1.62	10.00	4.49	16.25	3.74	22.50	1.50
4.00	1.62	10.25	4.49	16.50	2.25	22.75	1.50
4.25	1.62	10.50	5.74	16.75	2.25	23.00	1.50
4.50	2.00	10.75	5.74	17.00	2.25	23.25	1.50
4.75	2.00	11.00	7.74	17.25	2.25	23.50	1.50
5.00	2.00	11.25	7.74	17.50	2.25	23.75	1.50
5.25	2.00	11.50	11.98	17.75	2.25	24.00	1.50
5.50	2.00	11.75	11.98	18.00	2.25	24.25	1.50
5.75	2.00	12.00	36.94	18.25	2.25		
6.00	2.00	12.25	152.76	18.50	2.25		
6.25	2.00	12.50	17.97	18.75	2.25		

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| CALIB          |
| NASHYD ( 0303) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 5.55   Curve Number (CN)= 80.0
Ia        (mm)= 5.00   # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.38

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.00	12.250	152.76	18.33	2.25
0.167	0.00	6.250	2.00	12.333	17.99	18.42	2.25
0.250	0.00	6.333	2.25	12.417	17.97	18.50	2.25
0.333	1.37	6.417	2.25	12.500	17.97	18.58	2.25
0.417	1.37	6.500	2.25	12.583	17.97	18.67	2.25
0.500	1.37	6.583	2.25	12.667	17.97	18.75	2.25
0.583	1.37	6.667	2.25	12.750	17.97	18.83	2.25
0.667	1.37	6.750	2.25	12.833	9.24	18.92	2.25
0.750	1.37	6.833	2.25	12.917	9.24	19.00	2.25
0.833	1.37	6.917	2.25	13.000	9.24	19.08	2.25
0.917	1.37	7.000	2.25	13.083	9.24	19.17	2.25
1.000	1.37	7.083	2.25	13.167	9.24	19.25	2.25
1.083	1.37	7.167	2.25	13.250	9.24	19.33	2.25
1.167	1.37	7.250	2.25	13.333	6.74	19.42	2.25
1.250	1.37	7.333	2.75	13.417	6.74	19.50	2.25
1.333	1.37	7.417	2.75	13.500	6.74	19.58	2.25
1.417	1.37	7.500	2.75	13.583	6.74	19.67	2.25
1.500	1.37	7.583	2.75	13.667	6.74	19.75	2.25
1.583	1.37	7.667	2.75	13.750	6.74	19.83	2.25
1.667	1.37	7.750	2.75	13.833	5.24	19.92	2.25
1.750	1.37	7.833	2.75	13.917	5.24	20.00	2.25
1.833	1.37	7.917	2.75	14.000	5.24	20.08	2.25

1.917	1.37	8.000	2.75	14.083	5.24	20.17	2.25
2.000	1.37	8.083	2.75	14.167	5.24	20.25	2.25
2.083	1.37	8.167	2.75	14.250	5.24	20.33	1.50
2.167	1.37	8.250	2.75	14.333	3.74	20.42	1.50
2.250	1.37	8.333	3.24	14.417	3.74	20.50	1.50
2.333	1.62	8.417	3.24	14.500	3.74	20.58	1.50
2.417	1.62	8.500	3.24	14.583	3.74	20.67	1.50
2.500	1.62	8.583	3.24	14.667	3.74	20.75	1.50
2.583	1.62	8.667	3.24	14.750	3.74	20.83	1.50
2.667	1.62	8.750	3.24	14.833	3.74	20.92	1.50
2.750	1.62	8.833	3.49	14.917	3.74	21.00	1.50
2.833	1.62	8.917	3.49	15.000	3.74	21.08	1.50
2.917	1.62	9.000	3.49	15.083	3.74	21.17	1.50
3.000	1.62	9.083	3.49	15.167	3.74	21.25	1.50
3.083	1.62	9.167	3.49	15.250	3.74	21.33	1.50
3.167	1.62	9.250	3.49	15.333	3.74	21.42	1.50
3.250	1.62	9.333	3.99	15.417	3.74	21.50	1.50
3.333	1.62	9.417	3.99	15.500	3.74	21.58	1.50
3.417	1.62	9.500	3.99	15.583	3.74	21.67	1.50
3.500	1.62	9.583	3.99	15.667	3.74	21.75	1.50
3.583	1.62	9.667	3.99	15.750	3.74	21.83	1.50
3.667	1.62	9.750	3.99	15.833	3.74	21.92	1.50
3.750	1.62	9.833	4.49	15.917	3.74	22.00	1.50
3.833	1.62	9.917	4.49	16.000	3.74	22.08	1.50
3.917	1.62	10.000	4.49	16.083	3.74	22.17	1.50
4.000	1.62	10.083	4.49	16.167	3.74	22.25	1.50
4.083	1.62	10.167	4.49	16.250	3.74	22.33	1.50
4.167	1.62	10.250	4.49	16.333	2.25	22.42	1.50
4.250	1.62	10.333	5.74	16.417	2.25	22.50	1.50
4.333	2.00	10.417	5.74	16.500	2.25	22.58	1.50
4.417	2.00	10.500	5.74	16.583	2.25	22.67	1.50
4.500	2.00	10.583	5.74	16.667	2.25	22.75	1.50
4.583	2.00	10.667	5.74	16.750	2.25	22.83	1.50
4.667	2.00	10.750	5.74	16.833	2.25	22.92	1.50
4.750	2.00	10.833	7.74	16.917	2.25	23.00	1.50
4.833	2.00	10.917	7.74	17.000	2.25	23.08	1.50
4.917	2.00	11.000	7.74	17.083	2.25	23.17	1.50
5.000	2.00	11.083	7.74	17.167	2.25	23.25	1.50
5.083	2.00	11.167	7.74	17.250	2.25	23.33	1.50
5.167	2.00	11.250	7.74	17.333	2.25	23.42	1.50
5.250	2.00	11.333	11.98	17.417	2.25	23.50	1.50
5.333	2.00	11.417	11.98	17.500	2.25	23.58	1.50
5.417	2.00	11.500	11.98	17.583	2.25	23.67	1.50
5.500	2.00	11.583	11.98	17.667	2.25	23.75	1.50
5.583	2.00	11.667	11.98	17.750	2.25	23.83	1.50
5.667	2.00	11.750	11.98	17.833	2.25	23.92	1.50
5.750	2.00	11.833	36.94	17.917	2.25	24.00	1.50
5.833	2.00	11.917	36.94	18.000	2.25	24.08	1.50
5.917	2.00	12.000	36.94	18.083	2.25	24.17	1.50
6.000	2.00	12.083	152.74	18.167	2.25	24.25	1.50
6.083	2.00	12.167	152.76	18.250	2.25		

Unit Hyd Qpeak (cms)= 0.558

PEAK FLOW (cms)= 0.731 (i)
TIME TO PEAK (hrs)= 12.500
RUNOFF VOLUME (mm)= 78.286
TOTAL RAINFALL (mm)= 124.800
RUNOFF COEFFICIENT = 0.627

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0311) |
1 + 2 = 3
AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
ID1= 1 (0296): 25.54 2.882 12.67 98.33
+ ID2= 2 (0303): 5.55 0.731 12.50 78.29
=====

ID = 3 (0311): 31.09 3.534 12.67 94.75

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0311) |
3 + 2 = 1
AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
ID1= 3 (0311): 31.09 3.534 12.67 94.75
+ ID2= 2 (0306): 5.92 0.634 12.67 68.64
=====

ID = 1 (0311): 37.01 4.168 12.67 90.57

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

=====

V V I SSSSS U U A L (v 5.2.2003)
V V I SS U U A A L
V V I SS U U AAAAA L
V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL

000 TTTTT TTTTT H H Y Y M M 000 TM
O O T T H H Y Y MM MM O O
O O T T H H Y M M O O
000 T T H H Y M M 000

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 5.2\V02\voin.dat

Output filename:

C:\Users\p001130E\AppData\Local\Civica\XH5\eac855d9-c080-4f8c-adb7-9ddc313622b4\aab638bf-1336-45e8-a741-2f5b752fc0fa\sce

Summary filename:

C:\Users\p001130E\AppData\Local\Civica\XH5\eac855d9-c080-4f8c-adb7-9ddc313622b4\aab638bf-1336-45e8-a741-2f5b752fc0fa\sce

DATE: 10/18/2019

TIME: 10:28:28

USER:

COMMENTS: _____

** SIMULATION : Run 08 **

| READ STORM |

Filename: C:\Users\p001130E\AppData\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba

| Ptotal=136.80 mm | Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB			
NASHYD (0150)	Area (ha)= 125.00	Curve Number (CN)= 72.0	
ID= 1 DT= 5.0 min	Ia (mm)= 5.00	# of Linear Res.(N)= 4.00	
	U.H. Tp(hrs)= 0.93		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46

0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64

4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 6.374

PEAK FLOW (cms)= 9.584 (i)
 TIME TO PEAK (hrs)= 13.083
 RUNOFF VOLUME (mm)= 75.338
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.551

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=136.80 mm	Filename: C:\Users\p001130E\AppData Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba Comments: 100yr 24hr 15min SCS
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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64

4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0147) | Area (ha)= 218.00 Curve Number (CN)= 72.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 4.00
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| U.H. Tp(hrs)= 1.53

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64

2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 6.757

PEAK FLOW (cms)= 11.485 (i)

TIME TO PEAK (hrs)= 13.750
 RUNOFF VOLUME (mm)= 75.338
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.551

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=136.80 mm	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba Comments: 100yr 24hr 15min SCS
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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB NASHYD (0144) ID= 1 DT= 5.0 min	Area (ha)= 28.00 Ia (mm)= 5.00 U.H. Tp(hrs)= 0.38	Curve Number (CN)= 72.0 # of Linear Res.(N)= 4.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64

3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 3.494

PEAK FLOW (cms)= 4.110 (i)
 TIME TO PEAK (hrs)= 12.500
 RUNOFF VOLUME (mm)= 75.355
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.551

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46

0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0141) | Area (ha)= 116.00 Curve Number (CN)= 60.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 4.00
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| U.H. Tp(hrs)= 1.32

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46

1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64

5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 4.167

PEAK FLOW (cms)= 5.111 (i)
 TIME TO PEAK (hrs)= 13.500
 RUNOFF VOLUME (mm)= 57.686
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.422

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=136.80 mm	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba Comments: 100yr 24hr 15min SCS
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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64

5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB			
NASHYD (0139)	Area (ha)=	58.00	Curve Number (CN)= 72.0
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)= 4.00
	U.H. Tp(hrs)=	0.90	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64

2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 3.056

PEAK FLOW (cms)= 4.551 (i)

TIME TO PEAK (hrs)= 13.083

RUNOFF VOLUME (mm)= 75.338

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.551

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64

4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.265

PEAK FLOW (cms)= 1.794 (i)
 TIME TO PEAK (hrs)= 12.917
 RUNOFF VOLUME (mm)= 75.339
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.551

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64

2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB							
NASHYD (0132)	Area (ha)=	10.00	Curve Number (CN)=	75.0			
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	0.50					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46

1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64

5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.764

PEAK FLOW (cms)= 1.090 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 80.245
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.587

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0129) | Area (ha)= 14.50 Curve Number (CN)= 75.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.48

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64

3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.154

PEAK FLOW (cms)= 1.635 (i)

TIME TO PEAK (hrs)= 12.583

RUNOFF VOLUME (mm)= 80.244

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.587

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM

Filename: C:\Users\p001130E\AppData
Local\Temp\

| Ptotal=136.80 mm |

f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | NASHYD (0125) |
 | ID= 1 DT= 5.0 min |

Area (ha)= 105.00 Curve Number (CN)= 60.0
 Ia (mm)= 5.00 # of Linear Res.(N)= 4.00
 U.H. Tp(hrs)= 1.18

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46

0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64

4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 4.220

PEAK FLOW (cms)= 5.033 (i)

TIME TO PEAK (hrs)= 13.417

RUNOFF VOLUME (mm)= 57.686

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.422

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64

3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0124) | Area (ha)= 77.00 Curve Number (CN)= 72.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 4.00
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| U.H. Tp(hrs)= 1.01

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64

2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 3.615

PEAK FLOW (cms)= 5.551 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 75.338
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.551

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0126)|
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0124):  77.00   5.551   13.17   75.34
+ ID2= 2 ( 0125): 105.00   5.033   13.42   57.69
=====
ID = 3 ( 0126):  182.00  10.491   13.25   65.15
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0127)|
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
-----
  
```

```

<----- DATA FOR SECTION ( 20.0) ----->
Distance      Elevation      Manning
   0.00         197.50         0.0500
  160.00         195.00         0.0500
  175.00         194.00         0.0500
  177.00         193.60         0.0500 /0.0350 Main Channel
  178.00         193.60         0.0350 /0.0500 Main Channel
  180.00         194.00         0.0500
  195.00         195.00         0.0500
  250.00         197.50         0.0500
  
```

```

<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)        (m)        (cu.m.)      (cms)          (m/s)        (min)
0.21      193.81     .146E+03     0.1            0.35         16.44
0.41      194.01     .439E+03     0.6            0.48         12.10
0.62      194.22     .104E+04     1.5            0.51         11.53
0.82      194.42     .209E+04     3.4            0.57         10.32
1.03      194.63     .358E+04     6.5            0.64          9.18
1.23      194.83     .551E+04     11.1           0.71          8.24
1.44      195.04     .789E+04     17.1           0.76          7.71
1.64      195.24     .113E+05     24.2           0.75          7.77
1.85      195.45     .159E+05     35.5           0.78          7.47
2.05      195.65     .218E+05     51.5           0.83          7.06
2.26      195.86     .290E+05     72.7           0.88          6.65
2.46      196.06     .375E+05     99.9           0.93          6.25
  
```

2.67	196.27	.472E+05	133.6	0.99	5.89
2.87	196.47	.582E+05	174.3	1.05	5.56
3.08	196.68	.704E+05	222.8	1.11	5.27
3.28	196.88	.839E+05	279.6	1.17	5.00
3.49	197.09	.987E+05	345.1	1.22	4.77
3.69	197.29	.115E+06	419.9	1.28	4.55
3.90	197.50	.132E+06	504.6	1.34	4.36

		AREA	<----- hydrograph ----->			<-pipe / channel->	
		(ha)	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
			(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0126)	182.00	10.49	13.25	65.15	1.20	0.70
OUTFLOW:	ID= 1 (0127)	182.00	10.27	13.38	65.15	1.19	0.69

| ROUTE CHN(0128) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (21.0) ----->			
Distance	Elevation	Manning	
0.00	102.30	0.0500	
10.00	100.30	0.0500	
12.00	100.30	0.0500 /0.0350	Main Channel
12.50	100.00	0.0350	Main Channel
13.50	100.30	0.0350 /0.0500	Main Channel
15.00	100.30	0.0500	
25.00	102.30	0.0500	

<----- TRAVEL TIME TABLE ----->					
DEPTH	ELEV	VOLUME	FLOW RATE	VELOCITY	TRAV.TIME
(m)	(m)	(cu.m.)	(cms)	(m/s)	(min)
0.10	100.10	.625E+01	0.0	0.18	22.69
0.20	100.20	.250E+02	0.0	0.29	14.29
0.30	100.30	.563E+02	0.1	0.38	10.91
0.43	100.43	.232E+03	0.4	0.38	10.95
0.55	100.55	.447E+03	0.8	0.47	8.85
0.68	100.68	.701E+03	1.5	0.55	7.55
0.80	100.80	.994E+03	2.5	0.62	6.69
0.93	100.93	.133E+04	3.6	0.69	6.06
1.05	101.05	.170E+04	5.1	0.75	5.57
1.18	101.18	.211E+04	6.8	0.80	5.19
1.30	101.30	.256E+04	8.7	0.86	4.87
1.43	101.43	.304E+04	11.0	0.91	4.60
1.55	101.55	.357E+04	13.6	0.95	4.37
1.67	101.67	.414E+04	16.5	1.00	4.17
1.80	101.80	.474E+04	19.8	1.04	3.99
1.92	101.92	.539E+04	23.4	1.09	3.83
2.05	102.05	.607E+04	27.4	1.13	3.69
2.17	102.17	.679E+04	31.8	1.17	3.56

2.30 102.30 .756E+04 36.6 1.21 3.44

		<----- hydrograph ----->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0127)	182.00	10.27	13.38	65.15	1.38	0.89
OUTFLOW: ID= 1 (0128)	182.00	10.19	13.45	65.15	1.38	0.89

```

-----
| ADD HYD ( 0130) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0128):  182.00  10.191  13.45  65.15
+ ID2= 2 ( 0129):   14.50   1.635  12.58  80.24
=====
ID = 3 ( 0130):  196.50  10.886  13.37  66.27

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0131) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
-----

```

```

<----- DATA FOR SECTION ( 22.0) ----->
Distance      Elevation      Manning
   0.00        102.30        0.0500
  10.00        100.30        0.0500
  12.00        100.30        0.0500 /0.0350  Main Channel
  12.50        100.00        0.0350        Main Channel
  13.50        100.30        0.0350 /0.0500  Main Channel
  15.00        100.30        0.0500
  25.00        102.30        0.0500

```

```

<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)        (m)        (cu.m.)      (cms)          (m/s)        (min)
0.10      100.10      .130E+02      0.0            0.16         54.13
0.20      100.20      .520E+02      0.0            0.25         34.10
0.30      100.30      .117E+03      0.1            0.33         26.02
0.43      100.43      .483E+03      0.3            0.33         26.14
0.55      100.55      .930E+03      0.7            0.41         21.10
0.68      100.68      .146E+04      1.3            0.48         18.02
0.80      100.80      .207E+04      2.2            0.54         15.95
0.93      100.93      .276E+04      3.2            0.60         14.45
1.05      101.05      .353E+04      4.4            0.65         13.30
1.18      101.18      .438E+04      5.9            0.70         12.38
1.30      101.30      .532E+04      7.6            0.75         11.62
1.43      101.43      .633E+04      9.6            0.79         10.98

```

1.55	101.55	.743E+04	11.9	0.83	10.43
1.67	101.67	.861E+04	14.4	0.87	9.95
1.80	101.80	.987E+04	17.3	0.91	9.52
1.92	101.92	.112E+05	20.4	0.95	9.15
2.05	102.05	.126E+05	23.9	0.98	8.81
2.17	102.17	.141E+05	27.7	1.02	8.50
2.30	102.30	.157E+05	31.9	1.05	8.22

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0130)	196.50	10.89	13.37	66.27	1.50	0.81
OUTFLOW: ID= 1 (0131)	196.50	10.53	13.53	66.26	1.48	0.81

ADD HYD (0133)					
1 + 2 = 3					
	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0131):	196.50	10.528	13.53	66.26	
+ ID2= 2 (0132):	10.00	1.090	12.67	80.24	
=====					
ID = 3 (0133):	206.50	10.977	13.48	66.94	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\
	f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64

3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0096) | Area (ha)= 29.00 Curve Number (CN)= 72.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
-----
| U.H. Tp(hrs)= 0.47

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64

2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 2.357

PEAK FLOW (cms)= 3.101 (i)
 TIME TO PEAK (hrs)= 12.583
 RUNOFF VOLUME (mm)= 75.333
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.551

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=136.80 mm	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba Comments: 100yr 24hr 15min SCS
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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB NASHYD (0076) ID= 1 DT= 5.0 min	Area (ha)= 27.66 Ia (mm)= 5.00 U.H. Tp(hrs)= 0.55	Curve Number (CN)= 82.0 # of Linear Res.(N)= 3.00
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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64

3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.921

PEAK FLOW (cms)= 3.299 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 92.616
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.677

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46

0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0075) | Area (ha)= 22.91 Curve Number (CN)= 82.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.72

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46

1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64

5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.215

PEAK FLOW (cms)= 2.243 (i)
 TIME TO PEAK (hrs)= 12.833
 RUNOFF VOLUME (mm)= 92.618
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.677

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0077)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0075):	22.91	2.243	12.83	92.62
+ ID2= 2 (0076):	27.66	3.299	12.67	92.62
=====				
ID = 3 (0077):	50.57	5.467	12.75	92.62

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64

2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB	
STANDHYD (0078)	Area (ha)= 9.99
ID= 1 DT= 5.0 min	Total Imp(%)= 37.00 Dir. Conn.(%)= 4.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	3.70	6.29
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	0.50
Length (m)=	258.07	10.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46

1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64

5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 219.93
over (min) 5.00 10.00
Storage Coeff. (min)= 4.52 (ii) 7.92 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.23 0.13

TOTALS

PEAK FLOW (cms)= 0.18 3.06 3.240 (iii)
TIME TO PEAK (hrs)= 12.25 12.25 12.25
RUNOFF VOLUME (mm)= 135.80 102.41 103.74
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.75 0.76

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0079)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0077):	50.57	5.467	12.75	92.62
+ ID2= 2 (0078):	9.99	3.240	12.25	103.74
=====				
ID = 3 (0079):	60.56	6.340	12.33	94.45

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(5803)	OVERFLOW IS OFF			
IN= 2---> OUT= 1	OUTFLOW	STORAGE	OUTFLOW	STORAGE
DT= 5.0 min	(cms)	(ha.m.)	(cms)	(ha.m.)
	0.0000	0.0000	0.0530	0.4600

0.0220	0.0770	0.0590	0.5900
0.0310	0.1530	1.1700	0.7830
0.0380	0.2300	3.0000	1.0330
0.0440	0.3070	5.1000	1.2830
0.0490	0.3830	8.6700	1.5310

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0079)	60.560	6.340	12.33	94.45
OUTFLOW: ID= 1 (5803)	60.560	5.491	12.92	94.44

PEAK FLOW REDUCTION [Qout/Qin](%)= 86.60
 TIME SHIFT OF PEAK FLOW (min)= 35.00
 MAXIMUM STORAGE USED (ha.m.)= 1.3119

READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0202) | Area (ha)= 2.14 Curve Number (CN)= 80.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.28

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64

3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.292

PEAK FLOW (cms)= 0.396 (i)

TIME TO PEAK (hrs)= 12.417

RUNOFF VOLUME (mm)= 88.901

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.650

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ADD HYD (0228) |

1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0202):	2.14	0.396	12.42	88.90
+ ID2= 2 (5803):	60.56	5.491	12.92	94.44
=====				
ID = 3 (0228):	62.70	5.637	12.92	94.25

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ROUTE CHN(0229)|
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00

<----- DATA FOR SECTION (12.0) ----->

Distance	Elevation	Manning	
0.00	102.30	0.0500	
10.00	100.30	0.0500	
15.00	100.30	0.0500 / 0.0350	Main Channel
15.50	100.00	0.0350	Main Channel
16.50	100.30	0.0350 / 0.0500	Main Channel
20.00	100.30	0.0500	
30.00	102.30	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.348E+02	0.0	0.28	82.87
0.20	100.20	.139E+03	0.0	0.44	52.21
0.30	100.30	.313E+03	0.1	0.58	39.84
0.43	100.43	.216E+04	0.8	0.50	46.49
0.55	100.55	.423E+04	2.0	0.67	34.74
0.68	100.68	.651E+04	3.8	0.81	28.50
0.80	100.80	.901E+04	6.1	0.94	24.64
0.93	100.93	.117E+05	8.9	1.05	21.98
1.05	101.05	.147E+05	12.2	1.16	20.01
1.18	101.18	.178E+05	16.1	1.25	18.48
1.30	101.30	.212E+05	20.5	1.34	17.25
1.43	101.43	.248E+05	25.4	1.43	16.23
1.55	101.55	.286E+05	31.0	1.51	15.37
1.67	101.67	.326E+05	37.1	1.59	14.63
1.80	101.80	.368E+05	43.9	1.66	13.98
1.92	101.92	.413E+05	51.3	1.73	13.41
2.05	102.05	.460E+05	59.4	1.80	12.90
2.17	102.17	.508E+05	68.1	1.86	12.44
2.30	102.30	.560E+05	77.6	1.93	12.02

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0228)	62.70	5.64	12.92	94.25	0.78	0.91
OUTFLOW: ID= 1 (0229)	62.70	4.77	13.33	94.25	0.73	0.86

 | READ STORM |
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | NASHYD (0201) |
ID= 1 DT= 5.0 min

Area (ha)= 11.68 Curve Number (CN)= 82.0
 Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
 U.H. Tp(hrs)= 0.87

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
------	------	------	------	------	------	------	------

hrs	mm/hr	hrs	mm/hr	'	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46	
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46	
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46	
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46	
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46	
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46	
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46	
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46	
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46	
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46	
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46	
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46	
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46	
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46	
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46	
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46	
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46	
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46	
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46	
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46	
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46	
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46	
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46	
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46	
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64	
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64	
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64	
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64	
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64	
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64	
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64	
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64	
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64	
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64	
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64	
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64	
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64	
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64	
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64	
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64	
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64	
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64	
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64	
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64	
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64	
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64	
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64	
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64	
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64	
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64	

4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.513

PEAK FLOW (cms)= 0.994 (i)
 TIME TO PEAK (hrs)= 13.000
 RUNOFF VOLUME (mm)= 92.618
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.677

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64

2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB			
NASHYD (0204)	Area (ha)=	12.75	Curve Number (CN)= 80.0
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	1.30	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46

1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64

5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.375

PEAK FLOW (cms)= 0.766 (i)

TIME TO PEAK (hrs)= 13.500

RUNOFF VOLUME (mm)= 88.946

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.650

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0225)					
1 + 2 = 3					
	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0201):	11.68	0.994	13.00	92.62	
+ ID2= 2 (0204):	12.75	0.766	13.50	88.95	
=====					
ID = 3 (0225):	24.43	1.702	13.17	90.70	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData
	ata\Local\Temp\
	f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64

3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0203) | Area (ha)= 4.17 Curve Number (CN)= 81.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
-----
| U.H. Tp(hrs)= 0.31

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64

2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.514

PEAK FLOW (cms)= 0.740 (i)
 TIME TO PEAK (hrs)= 12.417
 RUNOFF VOLUME (mm)= 90.737
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.663

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | READ STORM | Filename: C:\Users\p001130E\AppData
 | | ata\Local\Temp\
 | | f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 | Ptotal=136.80 mm | Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | STANDHYD (0200) | Area (ha)= 22.56
 | ID= 1 DT= 5.0 min | Total Imp(%)= 63.00 Dir. Conn.(%)= 63.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	14.21	8.35
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	0.90	2.00
Length	(m)=	387.81	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64

3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	127.68
over (min)	5.00	10.00
Storage Coeff. (min)=	4.84 (ii)	9.48 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.22	0.12

			TOTALS
PEAK FLOW (cms)=	6.38	2.16	8.542 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	135.80	87.15	117.80
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.64	0.86

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

- CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0292)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min				
	OUTFLOW	STORAGE	OUTFLOW	STORAGE
	(cms)	(ha.m.)	(cms)	(ha.m.)
	0.0000	0.0000	0.3800	0.8500
	0.0020	0.3900	1.0200	1.2400
	0.0900	0.6400	*****	1.2500

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0200)	22.560	8.542	12.25	117.80
OUTFLOW: ID= 1 (0292)	22.560	11.067	12.33	103.74

PEAK FLOW REDUCTION [Qout/Qin](%)=129.56
 TIME SHIFT OF PEAK FLOW (min)= 5.00
 MAXIMUM STORAGE USED (ha.m.)= 1.3423

**** WARNING : HYDROGRAPH PEAK WAS NOT REDUCED.
 CHECK OUTFLOW/STORAGE TABLE OR REDUCE DT.

ADD HYD (0226)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0203):	4.17	0.740	12.42	90.74
+ ID2= 2 (0292):	22.56	11.067	12.33	103.74
=====				
ID = 3 (0226):	26.73	11.768	12.33	101.71

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0227)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0225):	24.43	1.702	13.17	90.70
+ ID2= 2 (0226):	26.73	11.768	12.33	101.71
=====				
ID = 3 (0227):	51.16	12.469	12.33	96.45

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ADD HYD ( 0184) |
| 1 + 2 = 3 |
-----

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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0227):	51.16	12.469	12.33	96.45
+ ID2= 2 (0229):	62.70	4.774	13.33	94.25
=====				
ID = 3 (0184):	113.86	13.113	12.33	95.24

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ROUTE CHN( 0230) |
| IN= 2---> OUT= 1 |
-----

```

Routing time step (min)'= 5.00

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<----- DATA FOR SECTION ( 12.0) ----->

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Distance	Elevation	Manning	
0.00	102.30	0.0500	
10.00	100.30	0.0500	
15.00	100.30	0.0500 /0.0350	Main Channel
15.50	100.00	0.0350	Main Channel
16.50	100.30	0.0350 /0.0500	Main Channel
20.00	100.30	0.0500	
30.00	102.30	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.318E+02	0.0	0.25	84.05
0.20	100.20	.127E+03	0.0	0.40	52.95
0.30	100.30	.286E+03	0.1	0.52	40.41
0.43	100.43	.197E+04	0.7	0.45	47.15
0.55	100.55	.386E+04	1.8	0.60	35.23
0.68	100.68	.594E+04	3.4	0.73	28.91
0.80	100.80	.822E+04	5.5	0.85	24.99
0.93	100.93	.107E+05	8.0	0.95	22.29
1.05	101.05	.134E+05	11.0	1.04	20.30
1.18	101.18	.163E+05	14.5	1.13	18.75
1.30	101.30	.193E+05	18.4	1.21	17.50
1.43	101.43	.226E+05	22.9	1.29	16.46
1.55	101.55	.261E+05	27.9	1.36	15.59
1.67	101.67	.298E+05	33.4	1.43	14.83
1.80	101.80	.336E+05	39.5	1.49	14.18
1.92	101.92	.377E+05	46.2	1.56	13.60
2.05	102.05	.420E+05	53.5	1.62	13.08
2.17	102.17	.464E+05	61.3	1.68	12.62
2.30	102.30	.511E+05	69.8	1.74	12.19

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<----- hydrograph -----> <-pipe / channel->
AREA QPEAK TPEAK R.V. MAX DEPTH MAX VEL

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		(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0184)	113.86	13.11	12.33	95.24	1.13	1.09
OUTFLOW:	ID= 1 (0230)	113.86	7.10	13.50	95.23	0.88	0.91

READ STORM	Filename: C:\Users\p001130E\AppData
	ata\Local\Temp\
	f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB		
NASHYD (0205)	Area (ha)= 11.24	Curve Number (CN)= 80.0
ID= 1 DT= 5.0 min	Ia (mm)= 5.00	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 1.00	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64

4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.429

PEAK FLOW (cms)= 0.825 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 88.946
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.650

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46

1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB			
NASHYD (0206)	Area (ha)=	9.38	Curve Number (CN)= 83.0
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.92	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46

1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64

5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.389

PEAK FLOW (cms)= 0.782 (i)

TIME TO PEAK (hrs)= 13.083

RUNOFF VOLUME (mm)= 94.499

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.691

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=136.80 mm	Filename: C:\Users\p001130E\AppData Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba Comments: 100yr 24hr 15min SCS
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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		

6.00	2.19	12.25	167.44	18.50	2.46
6.25	2.19	12.50	19.70	18.75	2.46

 | CALIB
 | STANDHYD (0207)
 | ID= 1 DT= 5.0 min |

Area (ha)= 27.53
 Total Imp(%)= 77.00 Dir. Conn.(%)= 62.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	21.20	6.33
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.51	2.00
Length	(m)=	428.41	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64

2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	242.23
over (min)	5.00	10.00
Storage Coeff. (min)=	6.09 (ii)	9.95 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.19	0.11

				TOTALS
PEAK FLOW	(cms)=	7.42	3.12	10.539 (iii)
TIME TO PEAK	(hrs)=	12.25	12.25	12.25
RUNOFF VOLUME	(mm)=	135.80	104.47	123.90
TOTAL RAINFALL	(mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT	=	0.99	0.76	0.91

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| RESERVOIR( 0293) |
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
-----

```

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.4700	1.2700
0.0030	0.5800	1.2400	1.8600
0.1100	0.9600	*****	1.8700

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0207)	27.530	10.539	12.25	123.90
OUTFLOW: ID= 1 (0293)	27.530	5.624	12.42	106.60

PEAK FLOW REDUCTION [Qout/Qin](%)= 53.37
 TIME SHIFT OF PEAK FLOW (min)= 10.00
 MAXIMUM STORAGE USED (ha.m.)= 1.9256

```

-----
| ADD HYD ( 0231) |
| 1 + 2 = 3      |
-----

```

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0206):	9.38	0.782	13.08	94.50
+ ID2= 2 (0293):	27.53	5.624	12.42	106.60
=====				
ID = 3 (0231):	36.91	6.055	12.42	103.53

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0232) |
| 1 + 2 = 3      |
-----

```

AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
--------------	----------------	----------------	--------------

```

ID1= 1 ( 0205):    11.24   0.825   13.17   88.95
+ ID2= 2 ( 0231):    36.91   6.055   12.42  103.53
=====
ID = 3 ( 0232):    48.15   6.471   12.42  100.12

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0185)|
| 1 + 2 = 3 |
-----
                AREA    QPEAK    TPEAK    R.V.
                (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0230):  113.86   7.102   13.50   95.23
+ ID2= 2 ( 0232):  48.15   6.471   12.42  100.12
=====
ID = 3 ( 0185):  162.01   9.734   12.42   96.68

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| READ STORM |
|           |
| Ptotal=136.80 mm |
-----
Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Comments: 100yr 24hr 15min SCS

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		

6.00	2.19	12.25	167.44	18.50	2.46
6.25	2.19	12.50	19.70	18.75	2.46

 | CALIB
 | STANDHYD (0083)
 | ID= 1 DT= 5.0 min |

Area (ha)= 16.00
 Total Imp(%)= 43.00 Dir. Conn.(%)= 43.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	6.88	9.12
Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	337.00	337.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64

2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	64.28
over (min)	5.00	35.00
Storage Coeff. (min)=	5.78 (ii)	32.24 (ii)
Unit Hyd. Tpeak (min)=	5.00	35.00
Unit Hyd. peak (cms)=	0.20	0.03

				TOTALS
PEAK FLOW	(cms)=	3.02	0.96	3.439 (iii)
TIME TO PEAK	(hrs)=	12.25	12.67	12.25
RUNOFF VOLUME	(mm)=	135.30	78.20	102.75
TOTAL RAINFALL	(mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT	=	0.99	0.57	0.75

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ROUTE CHN(0084) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (10.0) ----->

Distance	Elevation	Manning	
0.00	197.50	0.0500	
160.00	195.00	0.0500	
175.00	194.00	0.0500	
177.00	193.60	0.0500 /0.0350	Main Channel
178.00	193.60	0.0350 /0.0500	Main Channel
180.00	194.00	0.0500	
195.00	195.00	0.0500	
250.00	197.50	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH	ELEV	VOLUME	FLOW RATE	VELOCITY	TRAV.TIME
(m)	(m)	(cu.m.)	(cms)	(m/s)	(min)
0.21	193.81	.873E+03	0.1	0.35	98.61
0.41	194.01	.263E+04	0.6	0.48	72.59
0.62	194.22	.625E+04	1.5	0.51	69.17
0.82	194.42	.125E+05	3.4	0.57	61.93
1.03	194.63	.215E+05	6.5	0.64	55.09
1.23	194.83	.330E+05	11.1	0.71	49.43
1.44	195.04	.473E+05	17.1	0.76	46.24
1.64	195.24	.676E+05	24.2	0.75	46.63
1.85	195.45	.955E+05	35.5	0.78	44.82
2.05	195.65	.131E+06	51.5	0.83	42.39
2.26	195.86	.174E+06	72.7	0.88	39.88
2.46	196.06	.225E+06	99.9	0.93	37.50
2.67	196.27	.283E+06	133.6	0.99	35.32
2.87	196.47	.349E+06	174.3	1.05	33.35
3.08	196.68	.422E+06	222.8	1.11	31.59
3.28	196.88	.504E+06	279.6	1.17	30.02
3.49	197.09	.592E+06	345.1	1.22	28.60
3.69	197.29	.689E+06	419.9	1.28	27.33

3.90 197.50 .793E+06 504.6 1.34 26.18

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0083)	16.00	3.44	12.25	102.75	0.83	0.57
OUTFLOW: ID= 1 (0084)	16.00	1.07	12.80	102.72	0.52	0.49

```

-----
| ADD HYD ( 0085) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0185):  162.01  9.734   12.42   96.68
+ ID2= 2 ( 0084):   16.00  1.072   12.80  102.72
=====
ID = 3 ( 0085):  178.01 10.707   12.42   92.17

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| READ STORM |
|           |
| Ptotal=136.80 mm |
-----
Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Comments: 100yr 24hr 15min SCS

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64

5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

```

-----
| CALIB          |
| STANDHYD ( 0086) |
| ID= 1 DT= 5.0 min |
-----

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Area      (ha)= 130.00
Total Imp(%)= 75.00   Dir. Conn.(%)= 75.00

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                IMPERVIOUS      PERVIOUS (i)
Surface Area    (ha)=          97.50      32.50
Dep. Storage    (mm)=          1.50       1.50
Average Slope   (%)=          0.50       2.00
Length          (m)=         930.95     927.00
Mannings n      =            0.015      0.200

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

```

----- TRANSFORMED HYETOGRAPH -----

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64

2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 39.41
over (min) 10.00 70.00

Storage Coeff. (min)=	10.64 (ii)	69.70 (ii)	
Unit Hyd. Tpeak (min)=	10.00	70.00	
Unit Hyd. peak (cms)=	0.11	0.02	
			TOTALS
PEAK FLOW (cms)=	33.44	2.00	33.977 (iii)
TIME TO PEAK (hrs)=	12.25	13.25	12.25
RUNOFF VOLUME (mm)=	135.30	78.20	121.03
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.57	0.88

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| RESERVOIR( 5008) | OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
-----

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	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0001	3.3700	6.2000
	0.4800	3.8000	4.3200	6.9000
	1.4000	4.7000	5.3800	7.5000
	2.2000	5.4000	10.0000	7.6000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0086)	130.000	33.977	12.25	121.03
OUTFLOW: ID= 1 (5008)	130.000	11.371	12.67	120.98

PEAK FLOW REDUCTION [Qout/Qin](%)= 33.47
 TIME SHIFT OF PEAK FLOW (min)= 25.00
 MAXIMUM STORAGE USED (ha.m.)= 7.6423

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-----
| ROUTE CHN( 0088) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
-----

```

<----- DATA FOR SECTION (11.0) ----->

Distance	Elevation	Manning	
0.00	197.50	0.0500	
160.00	195.00	0.0500	
175.00	194.00	0.0500	
177.00	193.60	0.0500 /0.0350	Main Channel
178.00	193.60	0.0350 /0.0500	Main Channel
180.00	194.00	0.0500	
195.00	195.00	0.0500	

250.00 197.50 0.0500

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.21	193.81	.374E+03	0.1	0.35	42.26
0.41	194.01	.113E+04	0.6	0.48	31.11
0.62	194.22	.268E+04	1.5	0.51	29.65
0.82	194.42	.537E+04	3.4	0.57	26.54
1.03	194.63	.919E+04	6.5	0.64	23.61
1.23	194.83	.142E+05	11.1	0.71	21.18
1.44	195.04	.203E+05	17.1	0.76	19.82
1.64	195.24	.290E+05	24.2	0.75	19.98
1.85	195.45	.409E+05	35.5	0.78	19.21
2.05	195.65	.561E+05	51.5	0.83	18.17
2.26	195.86	.746E+05	72.7	0.88	17.09
2.46	196.06	.963E+05	99.9	0.93	16.07
2.67	196.27	.121E+06	133.6	0.99	15.14
2.87	196.47	.150E+06	174.3	1.05	14.29
3.08	196.68	.181E+06	222.8	1.11	13.54
3.28	196.88	.216E+06	279.6	1.17	12.86
3.49	197.09	.254E+06	345.1	1.22	12.26
3.69	197.29	.295E+06	419.9	1.28	11.71
3.90	197.50	.340E+06	504.6	1.34	11.22

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (5008)	130.00	11.37	12.67	120.98	1.24	0.71
OUTFLOW: ID= 1 (0088)	130.00	6.90	12.90	99.48	1.04	0.64

***** WARNING : THE HYD WAS CUT TO 2000 POINTS

ADD HYD (0089)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0085):	178.01	10.707	12.42	92.17
+ ID2= 2 (0088):	130.00	6.900	12.90	99.48
=====				
ID = 3 (0089):	308.01	16.640	13.25	95.26

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
------------	---

| Ptotal=136.80 mm |

Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | STANDHYD (0090) |
 | ID= 1 DT= 5.0 min |

Area (ha)= 24.00
 Total Imp(%)= 43.00 Dir. Conn.(%)= 43.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	10.32	13.68
Dep. Storage (mm)=	1.50	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	400.00	400.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46

0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64

4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 64.28
over (min) 5.00 40.00
Storage Coeff. (min)= 6.41 (ii) 35.73 (ii)
Unit Hyd. Tpeak (min)= 5.00 40.00
Unit Hyd. peak (cms)= 0.18 0.03

TOTALS

PEAK FLOW (cms)= 4.44 1.34 4.971 (iii)
TIME TO PEAK (hrs)= 12.25 12.75 12.25
RUNOFF VOLUME (mm)= 135.30 78.20 102.76
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.57 0.75

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0091)				
1 + 2 = 3				

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0089):	308.01	16.640	13.25	95.26
+ ID2= 2 (0090):	24.00	4.971	12.25	102.76
=====				
ID = 3 (0091):	332.01	17.958	13.03	95.80

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | ROUTE CHN(0092)|
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (12.0) ----->
 Distance Elevation Manning
 0.00 102.30 0.0500
 10.00 100.30 0.0500
 15.00 100.30 0.0500 /0.0350 Main Channel
 15.50 100.00 0.0350 Main Channel
 16.50 100.30 0.0350 /0.0500 Main Channel
 20.00 100.30 0.0500
 30.00 102.30 0.0500

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.125E+02	0.0	0.18	45.37
0.20	100.20	.500E+02	0.0	0.29	28.58
0.30	100.30	.113E+03	0.1	0.38	21.81
0.43	100.43	.777E+03	0.5	0.33	25.45
0.55	100.55	.152E+04	1.3	0.44	19.02
0.68	100.68	.234E+04	2.5	0.53	15.61
0.80	100.80	.324E+04	4.0	0.62	13.49
0.93	100.93	.421E+04	5.8	0.69	12.03
1.05	101.05	.527E+04	8.0	0.76	10.96
1.18	101.18	.640E+04	10.5	0.82	10.12
1.30	101.30	.761E+04	13.4	0.88	9.44
1.43	101.43	.890E+04	16.7	0.94	8.89
1.55	101.55	.103E+05	20.3	0.99	8.41
1.67	101.67	.117E+05	24.4	1.04	8.01
1.80	101.80	.132E+05	28.8	1.09	7.65
1.92	101.92	.148E+05	33.7	1.14	7.34
2.05	102.05	.165E+05	39.0	1.18	7.06
2.17	102.17	.183E+05	44.7	1.22	6.81
2.30	102.30	.201E+05	50.9	1.27	6.58

	AREA (ha)	<---- hydrograph ----> QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	<-pipe / channel-> MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0091)	332.01	17.96	13.03	95.80	1.47	0.96
OUTFLOW: ID= 1 (0092)	332.01	17.72	13.25	95.57	1.46	0.95

 | ROUTE CHN(0093)|
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0208) | Area (ha)= 10.23 Curve Number (CN)= 82.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 1.00

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46

1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64

5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.391

PEAK FLOW (cms)= 0.784 (i)

TIME TO PEAK (hrs)= 13.167

RUNOFF VOLUME (mm)= 92.618

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.677

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64

5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

| CALIB |
| STANDHYD (0209) |
ID= 1 DT= 5.0 min

Area (ha)= 15.74
Total Imp(%)= 50.00 Dir. Conn.(%)= 50.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	7.87	7.87
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.63	0.63
Length	(m)=	323.93	335.00
Mannings n	=	0.013	0.400

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46

2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44

40.27

over (min)	5.00	75.00	
Storage Coeff. (min)=	4.83 (ii)	72.98 (ii)	
Unit Hyd. Tpeak (min)=	5.00	75.00	
Unit Hyd. peak (cms)=	0.22	0.02	
			TOTALS
PEAK FLOW (cms)=	3.53	0.48	3.658 (iii)
TIME TO PEAK (hrs)=	12.25	13.33	12.25
RUNOFF VOLUME (mm)=	135.80	79.85	107.82
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.58	0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ROUTE CHN(0233) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 5.00

<----- DATA FOR SECTION (15.0) ----->

Distance	Elevation	Manning	
0.00	102.30	0.0500	
10.00	100.30	0.0500	
15.00	100.30	0.0500 /0.0350	Main Channel
15.50	100.00	0.0350	Main Channel
16.50	100.30	0.0350 /0.0500	Main Channel
20.00	100.30	0.0500	
30.00	102.30	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.277E+02	0.0	0.19	96.57
0.20	100.20	.111E+03	0.0	0.30	60.84
0.30	100.30	.249E+03	0.1	0.40	46.43
0.43	100.43	.172E+04	0.5	0.34	54.18
0.55	100.55	.336E+04	1.4	0.46	40.48
0.68	100.68	.517E+04	2.6	0.55	33.22
0.80	100.80	.716E+04	4.2	0.64	28.72
0.93	100.93	.932E+04	6.1	0.72	25.62
1.05	101.05	.117E+05	8.3	0.79	23.32
1.18	101.18	.142E+05	11.0	0.86	21.54
1.30	101.30	.168E+05	14.0	0.92	20.10
1.43	101.43	.197E+05	17.4	0.97	18.91
1.55	101.55	.227E+05	21.1	1.03	17.91
1.67	101.67	.259E+05	25.3	1.08	17.04

1.80	101.80	.293E+05	30.0	1.13	16.29
1.92	101.92	.328E+05	35.0	1.18	15.62
2.05	102.05	.365E+05	40.5	1.23	15.03
2.17	102.17	.404E+05	46.5	1.27	14.50
2.30	102.30	.445E+05	52.9	1.32	14.01

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0209)	15.74	3.66	12.25	107.82	0.76	0.61
OUTFLOW: ID= 1 (0233)	15.74	1.49	12.33	107.79	0.56	0.46

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| ADD HYD ( 0234) |
| 1 + 2 = 3 |
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	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0208):	10.23	0.784	13.17	92.62
+ ID2= 2 (0233):	15.74	1.492	12.33	107.79
=====				
ID = 3 (0234):	25.97	1.811	12.33	101.81

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ADD HYD ( 0095) |
| 1 + 2 = 3 |
-----

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	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0234):	25.97	1.811	12.33	101.81
+ ID2= 2 (0093):	332.01	17.247	13.50	95.33
=====				
ID = 3 (0095):	357.98	18.752	13.47	95.80

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ADD HYD ( 0097) |
| 1 + 2 = 3 |
-----

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	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0095):	357.98	18.752	13.47	95.80
+ ID2= 2 (0096):	29.00	3.101	12.58	75.33
=====				
ID = 3 (0097):	386.98	20.057	13.35	94.27

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ROUTE CHN(0098)|
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (14.0) ----->

Distance	Elevation	Manning	
0.00	197.50	0.0500	
160.00	195.00	0.0500	
175.00	194.00	0.0500	
177.00	193.60	0.0500 /0.0350	Main Channel
178.00	193.60	0.0350 /0.0500	Main Channel
180.00	194.00	0.0500	
195.00	195.00	0.0500	
250.00	197.50	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.21	193.81	.561E+03	0.1	0.35	63.39
0.41	194.01	.169E+04	0.6	0.48	46.67
0.62	194.22	.402E+04	1.5	0.51	44.47
0.82	194.42	.805E+04	3.4	0.57	39.81
1.03	194.63	.138E+05	6.5	0.64	35.42
1.23	194.83	.212E+05	11.1	0.71	31.78
1.44	195.04	.304E+05	17.1	0.76	29.72
1.64	195.24	.435E+05	24.2	0.75	29.98
1.85	195.45	.614E+05	35.5	0.78	28.81
2.05	195.65	.842E+05	51.5	0.83	27.25
2.26	195.86	.112E+06	72.7	0.88	25.64
2.46	196.06	.144E+06	99.9	0.93	24.10
2.67	196.27	.182E+06	133.6	0.99	22.70
2.87	196.47	.224E+06	174.3	1.05	21.44
3.08	196.68	.272E+06	222.8	1.11	20.31
3.28	196.88	.324E+06	279.6	1.17	19.30
3.49	197.09	.381E+06	345.1	1.22	18.39
3.69	197.29	.443E+06	419.9	1.28	17.57
3.90	197.50	.510E+06	504.6	1.34	16.83

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0097)	386.98	20.06	13.35	94.27	1.52	0.75
OUTFLOW: ID= 1 (0098)	386.98	18.19	13.92	93.86	1.47	0.76

| ROUTE CHN(0099)|
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (15.0) ----->

Distance	Elevation	Manning
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0.00	102.30	0.0500	
10.00	100.30	0.0500	
15.00	100.30	0.0500 / 0.0350	Main Channel
15.50	100.00	0.0350	Main Channel
16.50	100.30	0.0350 / 0.0500	Main Channel
20.00	100.30	0.0500	
30.00	102.30	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.150E+02	0.0	0.18	54.45
0.20	100.20	.600E+02	0.0	0.29	34.30
0.30	100.30	.135E+03	0.1	0.38	26.17
0.43	100.43	.932E+03	0.5	0.33	30.54
0.55	100.55	.182E+04	1.3	0.44	22.82
0.68	100.68	.281E+04	2.5	0.53	18.73
0.80	100.80	.389E+04	4.0	0.62	16.19
0.93	100.93	.506E+04	5.8	0.69	14.44
1.05	101.05	.632E+04	8.0	0.76	13.15
1.18	101.18	.768E+04	10.5	0.82	12.14
1.30	101.30	.913E+04	13.4	0.88	11.33
1.43	101.43	.107E+05	16.7	0.94	10.66
1.55	101.55	.123E+05	20.3	0.99	10.10
1.67	101.67	.141E+05	24.4	1.04	9.61
1.80	101.80	.159E+05	28.8	1.09	9.18
1.92	101.92	.178E+05	33.7	1.14	8.81
2.05	102.05	.198E+05	39.0	1.18	8.47
2.17	102.17	.219E+05	44.7	1.22	8.17
2.30	102.30	.241E+05	50.9	1.27	7.90

	AREA (ha)	<---- hydrograph ----> QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	<-pipe / channel-> MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0098)	386.98	18.19	13.92	93.86	1.48	0.96
OUTFLOW: ID= 1 (0099)	386.98	18.02	14.07	93.61	1.47	0.95

 | READ STORM |
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46

1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0213) | Area (ha)= 27.14 Curve Number (CN)= 80.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 1.39

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46

1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64

5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.746

PEAK FLOW (cms)= 1.549 (i)

TIME TO PEAK (hrs)= 13.583

RUNOFF VOLUME (mm)= 88.946

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.650

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0101)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0213):	27.14	1.549	13.58	88.95
+ ID2= 2 (0099):	386.98	18.016	14.07	93.61
=====				
ID = 3 (0101):	414.12	19.481	14.03	93.31

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64

2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB                               |
| STANDHYD ( 0102)                   |
| ID= 1 DT= 5.0 min                   |
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Area      (ha)= 40.00
Total Imp(%)= 43.00   Dir. Conn.(%)= 43.00

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		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	17.20	22.80
Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	516.40	516.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46

1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64

5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 51.80
over (min) 5.00 45.00
Storage Coeff. (min)= 7.47 (ii) 44.72 (ii)
Unit Hyd. Tpeak (min)= 5.00 45.00
Unit Hyd. peak (cms)= 0.17 0.03

TOTALS

PEAK FLOW (cms)= 7.16 1.94 7.865 (iii)
TIME TO PEAK (hrs)= 12.25 12.83 12.25
RUNOFF VOLUME (mm)= 135.30 78.20 102.76
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.57 0.75

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0103)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0101):	414.12	19.481	14.03	93.31
+ ID2= 2 (0102):	40.00	7.865	12.25	102.76
ID = 3 (0103):	454.12	20.579	13.97	94.14

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46

0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB							
NASHYD (0214)	Area (ha)=	3.11	Curve Number (CN)=	80.0			
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	0.52					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46

1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64

5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.228

PEAK FLOW (cms)= 0.370 (i)
 TIME TO PEAK (hrs)= 12.667
 RUNOFF VOLUME (mm)= 88.942
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.650

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0235)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0103):	454.12	20.579	13.97	94.14
+ ID2= 2 (0214):	3.11	0.370	12.67	88.94
=====				
ID = 3 (0235):	457.23	20.669	13.95	94.10

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64

2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB			
NASHYD (0416)	Area (ha)=	11.52	Curve Number (CN)= 73.0
ID= 1 DT= 5.0 min	Ia (mm)=	8.00	# of Linear Res.(N)= 2.00
	U.H. Tp(hrs)=	1.20	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46

1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64

6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.249

PEAK FLOW (cms)= 0.444 (i)
 TIME TO PEAK (hrs)= 13.583
 RUNOFF VOLUME (mm)= 74.447
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.544

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0010) | Area (ha)= 32.76 Curve Number (CN)= 73.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.00 # of Linear Res.(N)= 2.00
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U.H. Tp(hrs)= 1.40

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64

3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.607

PEAK FLOW (cms)= 1.121 (i)

TIME TO PEAK (hrs)= 13.833

RUNOFF VOLUME (mm)= 74.455

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.544

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM

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f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba

| Ptotal=136.80 mm | Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | STANDHYD (0011) |
 | ID= 1 DT= 5.0 min |

Area (ha)= 18.11
 Total Imp(%)= 67.00 Dir. Conn.(%)= 53.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	12.13	5.98
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	0.50
Length (m)=	347.47	10.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46

0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64

4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 202.65
over (min) 5.00 10.00
Storage Coeff. (min)= 5.40 (ii) 8.54 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.21 0.12

TOTALS

PEAK FLOW (cms)= 4.25 2.60 6.852 (iii)
TIME TO PEAK (hrs)= 12.25 12.25 12.25
RUNOFF VOLUME (mm)= 135.80 100.61 119.26
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.74 0.87

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0404)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0010):	32.76	1.121	13.83	74.46
+ ID2= 2 (0011):	18.11	6.852	12.25	119.26
=====				
ID = 3 (0404):	50.87	7.239	12.25	90.41

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0407)
 IN= 2---> OUT= 1
 DT= 5.0 min

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.4110	0.7190
0.0220	0.1180	1.0690	0.8000
0.0310	0.2400	1.9200	0.8820
0.0380	0.3680	2.9280	0.9650
0.0440	0.5010	4.0700	1.0500
0.0500	0.6400	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0404)	50.870	7.239	12.25	90.41
OUTFLOW: ID= 1 (0407)	50.870	3.943	12.42	90.38

PEAK FLOW REDUCTION [Qout/Qin](%)= 54.47
 TIME SHIFT OF PEAK FLOW (min)= 10.00
 MAXIMUM STORAGE USED (ha.m.)= 1.0517

READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64

4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB	
STANDHYD (0412)	Area (ha)= 5.88
ID= 1 DT= 5.0 min	Total Imp(%)= 46.10 Dir. Conn.(%)= 5.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	2.71	3.17
Dep. Storage (mm)=	1.00	4.00
Average Slope (%)=	0.50	0.50
Length (m)=	250.00	10.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46

1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	243.15	
over (min)	5.00	10.00	
Storage Coeff. (min)=	4.43 (ii)	7.70 (ii)	
Unit Hyd. Tpeak (min)=	5.00	10.00	
Unit Hyd. peak (cms)=	0.23	0.13	
			TOTALS
PEAK FLOW (cms)=	0.13	1.71	1.840 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	135.80	96.35	98.33
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.70	0.72

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
 ***** WARNING: FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
 YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0403)				
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0407):	50.87	3.943	12.42	90.38
+ ID2= 2 (0412):	5.88	1.840	12.25	98.33
=====				
ID = 3 (0403):	56.75	5.509	12.33	91.20

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0420)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min				
	OUTFLOW	STORAGE	OUTFLOW	STORAGE
	(cms)	(ha.m.)	(cms)	(ha.m.)
	0.0000	0.0000	0.4500	0.5700
	0.0200	0.0400	0.9300	0.5750
	0.0350	0.1540	1.5000	0.6500
	0.0450	0.2340	2.6000	0.7300
	0.0540	0.3160	5.2000	1.0200
	0.0610	0.4000	7.7000	1.2000
	0.0680	0.5000	0.0000	0.0000
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)

INFLOW : ID= 2 (0403) 56.750 5.509 12.33 91.20
 OUTFLOW: ID= 1 (0420) 56.750 2.882 12.75 91.19

PEAK FLOW REDUCTION [Qout/Qin](%)= 52.31
 TIME SHIFT OF PEAK FLOW (min)= 25.00
 MAXIMUM STORAGE USED (ha.m.)= 0.7621

 | READ STORM |
Pttotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | STANDHYD (0414) |
ID= 1 DT= 5.0 min

Area (ha)= 3.37
 Total Imp(%)= 23.00 Dir. Conn.(%)= 23.00

IMPERVIOUS PERVIOUS (i)

Surface Area	(ha)=	0.78	2.59
Dep. Storage	(mm)=	1.00	4.00
Average Slope	(%)=	0.50	0.50
Length	(m)=	149.89	150.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64

3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	64.49
over (min)	5.00	35.00
Storage Coeff. (min)=	3.26 (ii)	31.44 (ii)
Unit Hyd. Tpeak (min)=	5.00	35.00
Unit Hyd. peak (cms)=	0.27	0.03

TOTALS

PEAK FLOW (cms)=	0.36	0.28	0.479 (iii)
TIME TO PEAK (hrs)=	12.25	12.67	12.25
RUNOFF VOLUME (mm)=	135.80	77.78	91.12
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.57	0.67

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 73.0 Ia = Dep. Storage (Above)

- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0394)					
1 + 2 = 3					
	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0414):	3.37	0.479	12.25	91.12	
+ ID2= 2 (0420):	56.75	2.882	12.75	91.19	
=====					
ID = 3 (0394):	60.12	3.198	12.75	91.19	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

DIVERTHYD(0399)	
IN= 1	# OUT= 5

Outflow / Inflow Relationships

Flow 1	Flow 2	Flow 3	Flow 4	Flow 5	Total
(cms)	(cms)	(cms)	(cms)	(cms)	(cms)
0.00	0.00	0.00	0.00	0.00	0.00
0.48	0.00	0.00	0.00	0.00	0.48
0.48	0.01	0.00	0.00	0.00	0.49
0.48	50.00	0.00	0.00	0.00	50.48

	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
TOTAL HYD.(ID= 1):	60.12	3.20	12.75	91.19	
=====					
ID= 2 (2) :	37.00	0.48	12.75	91.19	
ID= 3 (2) :	23.12	2.72	12.75	91.19	
ID= 4 (2) :	0.00	0.00	0.00	0.00	
ID= 5 (2) :	0.00	0.00	0.00	0.00	
ID= 6 (2) :	0.00	0.00	0.00	0.00	

READ STORM	Filename: C:\Users\p001130E\AppData
	ata\Local\Temp\
	f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46

0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB							
NASHYD (0452)	Area	(ha)=	23.73	Curve Number	(CN)=	73.0	
ID= 1 DT= 5.0 min	Ia	(mm)=	8.00	# of Linear Res.(N)=	2.00		
	U.H. Tp	(hrs)=	0.90				

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46

1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64

5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.684

PEAK FLOW (cms)= 1.144 (i)
 TIME TO PEAK (hrs)= 13.167
 RUNOFF VOLUME (mm)= 74.424
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.544

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=136.80 mm	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba Comments: 100yr 24hr 15min SCS
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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64

5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | STANDHYD (0001) |
ID= 1 DT= 5.0 min

Area (ha)= 9.99
 Total Imp(%)= 21.20 Dir. Conn.(%)= 2.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	2.12	7.87
Dep. Storage	(mm)=	1.00	4.00
Average Slope	(%)=	0.50	0.50
Length	(m)=	400.00	10.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64

2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 154.29
over (min) 5.00 10.00
Storage Coeff. (min)= 5.88 (ii) 9.79 (ii)

Unit Hyd. Tpeak (min)=	5.00	10.00	
Unit Hyd. peak (cms)=	0.19	0.11	
			TOTALS
PEAK FLOW (cms)=	0.09	2.42	2.512 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	135.80	85.33	86.34
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.62	0.63

***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=136.80 mm	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba Comments: 100yr 24hr 15min SCS
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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		

6.00	2.19	12.25	167.44	18.50	2.46
6.25	2.19	12.50	19.70	18.75	2.46

CALIB					
STANDHYD (0002)	Area	(ha)=	45.47		
ID= 1 DT= 5.0 min	Total Imp(%)=	67.00	Dir. Conn.(%)=	53.00	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	30.46	15.01
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	1.00	2.00
Length	(m)=	550.58	10.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64

2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	202.65
over (min)	5.00	10.00
Storage Coeff. (min)=	5.78 (ii)	7.85 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.20	0.13

				TOTALS
PEAK FLOW	(cms)=	10.56	6.72	17.288 (iii)
TIME TO PEAK	(hrs)=	12.25	12.25	12.25
RUNOFF VOLUME	(mm)=	135.80	100.61	119.26
TOTAL RAINFALL	(mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT	=	0.99	0.74	0.87

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| RESERVOIR( 0419) |
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
-----

```

OVERFLOW IS OFF

OUTFLOW	STORAGE	OUTFLOW	STORAGE
(cms)	(ha.m.)	(cms)	(ha.m.)
0.0000	0.0000	0.3420	1.7920
0.0550	0.3010	0.7330	1.9980
0.0780	0.6110	1.2380	2.2060
0.0960	0.9280	1.8350	2.4170
0.1110	1.2540	2.5100	2.6300
0.1240	1.5880	0.0000	0.0000

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0002)	45.470	17.288	12.25	119.26
OUTFLOW: ID= 1 (0419)	45.470	3.523	12.58	119.23

PEAK FLOW REDUCTION [Qout/Qin](%)= 20.38
TIME SHIFT OF PEAK FLOW (min)= 20.00
MAXIMUM STORAGE USED (ha.m.)= 2.9513

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-----
| ADD HYD ( 0439) |
| 1 + 2 = 3      |
-----

```

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0001):	9.99	2.512	12.25	86.34
+ ID2= 2 (0419):	45.47	3.523	12.58	119.23
=====				
ID = 3 (0439):	55.46	5.074	12.33	113.31

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| RESERVOIR( 0406) |
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OVERFLOW IS OFF

| IN= 2---> OUT= 1 |
 | DT= 5.0 min |

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	1.9800	0.4300
0.0230	0.0500	2.3100	0.4400
0.0330	0.0610	2.9200	0.4600
0.0400	0.0710	3.2000	0.4700
0.0460	0.1240	3.7700	0.4900
0.0510	0.3400	7.2000	0.5940
1.1000	0.4000	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0439)	55.460	5.074	12.33	113.31
OUTFLOW: ID= 1 (0406)	55.460	4.573	12.50	113.30

PEAK FLOW REDUCTION [Qout/Qin](%)= 90.12
 TIME SHIFT OF PEAK FLOW (min)= 10.00
 MAXIMUM STORAGE USED (ha.m.)= 0.5149

| ADD HYD (0423) |
 | 1 + 2 = 3 |

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0406):	55.46	4.573	12.50	113.30
+ ID2= 2 (0452):	23.73	1.144	13.17	74.42
=====				
ID = 3 (0423):	79.19	5.447	12.58	101.65

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| READ STORM |
 | Ptotal=136.80 mm |

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64

2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

| CALIB |
| STANDHYD (0415) |
ID= 1 DT= 5.0 min

Area (ha)= 3.25
Total Imp(%)= 85.00 Dir. Conn.(%)= 85.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	2.76	0.49
Dep. Storage	(mm)=	0.00	1.50
Average Slope	(%)=	0.50	0.50
Length	(m)=	147.20	61.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46

1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64

5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 125.03
over (min) 5.00 20.00
Storage Coeff. (min)= 3.23 (ii) 15.83 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.27 0.07

TOTALS

PEAK FLOW (cms)= 1.28 0.09 1.341 (iii)
TIME TO PEAK (hrs)= 12.25 12.42 12.25
RUNOFF VOLUME (mm)= 136.80 90.26 129.82
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 1.00 0.66 0.95

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0448)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0415):	3.25	1.341	12.25	129.82
+ ID2= 2 (0423):	79.19	5.447	12.58	101.65
=====				
ID = 3 (0448):	82.44	5.673	12.50	102.76

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0422)	OVERFLOW IS OFF			
IN= 2---> OUT= 1	OUTFLOW	STORAGE	OUTFLOW	STORAGE
DT= 5.0 min	(cms)	(ha.m.)	(cms)	(ha.m.)
	0.0000	0.0000	1.2660	0.2040
	0.0190	0.0115	1.5380	0.2350
	0.0640	0.0250	1.8410	0.2680
	0.1300	0.0405	2.1760	0.3030

0.2180	0.0579	2.5440	0.3400
0.3290	0.0773	2.9470	0.3790
0.4640	0.0986	3.3860	0.4200
0.6240	0.1220	3.8620	0.4630
0.8100	0.1470	4.3750	0.5080
1.0240	0.1740	4.9270	0.5550

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0448)	82.440	5.673	12.50	102.76
OUTFLOW: ID= 1 (0422)	82.440	4.967	12.92	102.76

PEAK FLOW REDUCTION [Qout/Qin](%)= 87.55
 TIME SHIFT OF PEAK FLOW (min)= 25.00
 MAXIMUM STORAGE USED (ha.m.)= 0.5593

READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0454) | Area (ha)= 9.66 Curve Number (CN)= 73.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.00 # of Linear Res.(N)= 2.00
-----
| U.H. Tp(hrs)= 2.00

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64

3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.125

PEAK FLOW (cms)= 0.249 (i)

TIME TO PEAK (hrs)= 14.583

RUNOFF VOLUME (mm)= 74.466

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.544

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.


```

| ADD HYD ( 0424) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0422):  82.44  4.967  12.92  102.76
+ ID2= 2 ( 0454):   9.66  0.249  14.58  74.47
=====
ID = 3 ( 0424):  92.10  5.135  12.92  99.79

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| READ STORM |
| Ptotal=136.80 mm |
-----
Filename: C:\Users\p001130E\AppData
         ata\Local\Temp\
         f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Comments: 100yr 24hr 15min SCS

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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-----
| CALIB |
| NASHYD ( 0459) | Area (ha)= 4.33 Curve Number (CN)= 73.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.00 # of Linear Res.(N)= 2.00

```

----- U.H. Tp(hrs)= 0.80

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64

3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.140

PEAK FLOW (cms)= 0.228 (i)

TIME TO PEAK (hrs)= 13.083

RUNOFF VOLUME (mm)= 74.409

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.544

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0430)				
1 + 2 = 3				

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0399):	37.00	0.481	12.75	91.19
+ ID2= 2 (0424):	92.10	5.135	12.92	99.79
=====				
ID = 3 (0430):	129.10	5.616	12.92	97.32

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0430) |
| 3 + 2 = 1 |
-----

```

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 3 (0430):	129.10	5.616	12.92	97.32
+ ID2= 2 (0459):	4.33	0.228	13.08	74.41
=====				
ID = 1 (0430):	133.43	5.843	12.92	96.58

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0466) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00
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```

<----- DATA FOR SECTION ( 1.1) ----->

```

Distance	Elevation	Manning	
0.00	100.00	0.0350	Main Channel
1.00	99.67	0.0350	Main Channel
2.00	99.67	0.0350	Main Channel
9.00	97.92	0.0350	Main Channel
11.00	97.92	0.0350	Main Channel
18.00	99.67	0.0350	Main Channel
19.00	99.67	0.0350	Main Channel
20.00	100.00	0.0350	Main Channel

```

<----- TRAVEL TIME TABLE ----->

```

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.11	98.03	.133E+03	0.1	0.37	22.64
0.22	98.14	.315E+03	0.3	0.54	15.30
0.33	98.25	.544E+03	0.7	0.68	12.24
0.44	98.36	.821E+03	1.3	0.80	10.46
0.55	98.47	.115E+04	2.1	0.90	9.25
0.66	98.58	.152E+04	3.0	1.00	8.36
0.77	98.69	.194E+04	4.2	1.09	7.67
0.88	98.80	.241E+04	5.7	1.17	7.11
0.99	98.91	.293E+04	7.3	1.25	6.64
1.09	99.01	.349E+04	9.3	1.33	6.25
1.20	99.12	.410E+04	11.6	1.41	5.92
1.31	99.23	.477E+04	14.1	1.48	5.62
1.42	99.34	.547E+04	17.0	1.55	5.36
1.53	99.45	.623E+04	20.2	1.62	5.13
1.64	99.56	.704E+04	23.8	1.69	4.93
1.75	99.67	.789E+04	25.7	1.63	5.12
1.86	99.78	.889E+04	30.6	1.72	4.84
1.97	99.89	.993E+04	35.9	1.81	4.61

2.08 100.00 .110E+05 41.7 1.89 4.40

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0430)	133.43	5.84	12.92	96.58	0.89	1.18
OUTFLOW: ID= 1 (0466)	133.43	5.79	13.08	96.58	0.88	1.18

```

-----
| ADD HYD ( 0409) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0416):   11.52    0.444    13.58    74.45
+ ID2= 2 ( 0466):  133.43    5.786    13.08    96.58
=====
ID = 3 ( 0409):   144.95    6.204    13.08    94.82

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| READ STORM |
|           |
| Ptotal=136.80 mm |
-----
Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Comments: 100yr 24hr 15min SCS

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64

5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

```

-----
| CALIB |
| STANDHYD ( 0426) |
| ID= 1 DT= 5.0 min |
-----

```

```

Area (ha)= 4.61
Total Imp(%)= 85.00 Dir. Conn.(%)= 85.00

```

```

                IMPERVIOUS      PERVIOUS (i)
Surface Area (ha)= 3.92          0.69
Dep. Storage (mm)= 1.00         1.50
Average Slope (%)= 1.00         1.00
Length (m)= 175.31             40.00
Mannings n = 0.013             0.250

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

```

----- TRANSFORMED HYETOGRAPH -----

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64

2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 129.63
over (min) 5.00 10.00

Storage Coeff. (min)=	2.91 (ii)	6.44 (ii)	
Unit Hyd. Tpeak (min)=	5.00	10.00	
Unit Hyd. peak (cms)=	0.28	0.14	
			TOTALS
PEAK FLOW (cms)=	1.81	0.21	2.023 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	135.80	90.26	128.97
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.66	0.94

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| RESERVOIR( 0463) | OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
-----

```

	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0910	0.2900

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0426)	4.610	2.023	12.25	128.97
OUTFLOW: ID= 1 (0463)	4.610	0.112	13.33	128.79

PEAK FLOW REDUCTION [Qout/Qin](%)= 5.56
TIME SHIFT OF PEAK FLOW (min)= 65.00
MAXIMUM STORAGE USED (ha.m.)= 0.3586

```

-----
| ADD HYD ( 0462) |
| 1 + 2 = 3      |
-----

```

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0409):	144.95	6.204	13.08	94.82
+ ID2= 2 (0463):	4.61	0.112	13.33	128.79
=====				
ID = 3 (0462):	149.56	6.316	13.08	95.87

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0398) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00
-----

```

```

-----
<----- DATA FOR SECTION ( 1.1) ----->
Distance      Elevation      Manning
  0.00         100.00        0.0350    Main Channel
  1.00         99.67         0.0350    Main Channel
  2.00         99.67         0.0350    Main Channel
  9.00         97.92         0.0350    Main Channel
 11.00         97.92         0.0350    Main Channel
 18.00         99.67         0.0350    Main Channel
 19.00         99.67         0.0350    Main Channel
 20.00         100.00        0.0350    Main Channel

```

```

<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)        (m)        (cu.m.)      (cms)          (m/s)        (min)
0.11      98.03      .934E+02      0.1            0.37         15.85
0.22      98.14      .220E+03      0.3            0.54         10.71
0.33      98.25      .381E+03      0.7            0.68          8.57
0.44      98.36      .575E+03      1.3            0.80          7.32
0.55      98.47      .803E+03      2.1            0.90          6.47
0.66      98.58      .106E+04      3.0            1.00          5.85
0.77      98.69      .136E+04      4.2            1.09          5.37
0.88      98.80      .169E+04      5.7            1.17          4.98
0.99      98.91      .205E+04      7.3            1.25          4.65
1.09      99.01      .244E+04      9.3            1.33          4.38
1.20      99.12      .287E+04     11.6            1.41          4.14
1.31      99.23      .334E+04     14.1            1.48          3.94
1.42      99.34      .383E+04     17.0            1.55          3.75
1.53      99.45      .436E+04     20.2            1.62          3.59
1.64      99.56      .492E+04     23.8            1.69          3.45
1.75      99.67      .552E+04     25.7            1.63          3.58
1.86      99.78      .623E+04     30.6            1.72          3.39
1.97      99.89      .695E+04     35.9            1.81          3.22
2.08     100.00     .771E+04     41.7            1.89          3.08

```

```

<----- hydrograph -----> <-pipe / channel->
                AREA      QPEAK      TPEAK      R.V.      MAX DEPTH      MAX VEL
                (ha)      (cms)      (hrs)      (mm)      (m)            (m/s)
INFLOW : ID= 2 ( 0462) 149.56     6.32     13.08     95.87     0.92           1.20
OUTFLOW: ID= 1 ( 0398) 149.56     6.29     13.17     95.87     0.92           1.20

```

```

-----
| ROUTE CHN( 0460) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00
-----

```

```

<----- DATA FOR SECTION ( 1.1) ----->
Distance      Elevation      Manning
  0.00         100.00        0.0350    Main Channel
  8.00         98.00         0.0350    Main Channel

```

16.00 100.00 0.0350 Main Channel

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.11	98.11	.177E+02	0.0	0.41	16.16
0.21	98.21	.709E+02	0.1	0.65	10.18
0.32	98.32	.160E+03	0.3	0.86	7.77
0.42	98.42	.284E+03	0.7	1.04	6.41
0.53	98.53	.443E+03	1.3	1.21	5.53
0.63	98.63	.638E+03	2.2	1.36	4.90
0.74	98.74	.869E+03	3.3	1.51	4.42
0.84	98.84	.113E+04	4.7	1.65	4.04
0.95	98.95	.144E+04	6.4	1.78	3.74
1.05	99.05	.177E+04	8.5	1.91	3.48
1.16	99.16	.215E+04	10.9	2.04	3.27
1.26	99.26	.255E+04	13.8	2.16	3.08
1.37	99.37	.300E+04	17.1	2.28	2.92
1.47	99.47	.347E+04	20.8	2.40	2.78
1.58	99.58	.399E+04	25.0	2.51	2.66
1.68	99.68	.454E+04	29.7	2.62	2.55
1.79	99.79	.512E+04	34.9	2.73	2.44
1.89	99.89	.574E+04	40.7	2.83	2.35
2.00	100.00	.640E+04	47.0	2.94	2.27

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0399)	23.12	2.72	12.75	91.19	0.68	1.43
OUTFLOW: ID= 1 (0460)	23.12	2.68	12.83	91.19	0.68	1.42

 | READ STORM |
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64

2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

```

-----
| CALIB          |
| NASHYD ( 0029) |
| ID= 1 DT= 5.0 min |
-----

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Area      (ha)= 52.69   Curve Number  (CN)= 73.0
Ia        (mm)=  8.00   # of Linear Res.(N)= 2.00
U.H. Tp(hrs)=  1.70

```

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46

1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64

6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.804

PEAK FLOW (cms)= 1.548 (i)
 TIME TO PEAK (hrs)= 14.167
 RUNOFF VOLUME (mm)= 74.462
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.544

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | STANDHYD (0028) |
ID= 1 DT= 5.0 min

Area (ha)= 14.71
 Total Imp(%)= 65.00 Dir. Conn.(%)= 52.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	9.56	5.15
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	0.50
Length (m)=	313.16	10.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64

2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	193.50
over (min)	5.00	10.00
Storage Coeff. (min)=	4.12 (ii)	7.36 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.24	0.13

			TOTALS
PEAK FLOW (cms)=	3.49	2.25	5.735 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	135.80	99.58	118.41
TOTAL RAINFALL (mm)=	136.80	136.80	136.80

RUNOFF COEFFICIENT = 0.99 0.73 0.87

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0400)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0028):	14.71	5.735	12.25	118.41
+ ID2= 2 (0029):	52.69	1.548	14.17	74.46
=====				
ID = 3 (0400):	67.40	6.202	12.25	84.05

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0453)	OVERFLOW IS OFF			
IN= 2---> OUT= 1	OUTFLOW	STORAGE	OUTFLOW	STORAGE
DT= 5.0 min	(cms)	(ha.m.)	(cms)	(ha.m.)
	0.0000	0.0000	0.5730	0.5740
	0.0180	0.0930	1.5470	0.6380
	0.0250	0.1900	2.8070	0.7040
	0.0310	0.2920	4.2980	0.7710
	0.0350	0.3980	5.9900	0.8400
	0.0390	0.5100	0.0000	0.0000

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0400)	67.400	6.202	12.25	84.05
OUTFLOW: ID= 1 (0453)	67.400	4.563	12.33	84.04

PEAK FLOW REDUCTION [Qout/Qin](%)= 73.56
 TIME SHIFT OF PEAK FLOW (min)= 5.00
 MAXIMUM STORAGE USED (ha.m.)= 0.7910

READ STORM	Filename: C:\Users\p001130E\AppData
	ata\Local\Temp\
	f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 STANDHYD (0438)
 ID= 1 DT= 5.0 min

Area (ha)= 15.41
 Total Imp(%)= 44.20 Dir. Conn.(%)= 4.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	6.81	8.60
Dep. Storage (mm)=	1.00	4.00
Average Slope (%)=	0.50	0.50
Length (m)=	250.00	10.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46

0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64

4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 235.86
over (min) 5.00 10.00
Storage Coeff. (min)= 4.43 (ii) 7.74 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.23 0.13

TOTALS

PEAK FLOW (cms)= 0.28 4.48 4.760 (iii)
TIME TO PEAK (hrs)= 12.25 12.25 12.25
RUNOFF VOLUME (mm)= 135.80 95.64 97.25
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.70 0.71

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0451) |
1 + 2 = 3
AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
ID1= 1 (0438): 15.41 4.760 12.25 97.25
+ ID2= 2 (0453): 67.40 4.563 12.33 84.04

=====
 ID = 3 (0451): 82.81 8.794 12.33 86.49

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | RESERVOIR(0440) |
 | IN= 2---> OUT= 1 |
DT= 5.0 min

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.1330	0.7200
0.0450	0.0750	1.6800	0.8830
0.0630	0.1620	3.8710	1.0800
0.0890	0.2460	7.3830	1.2000
0.1000	0.3930	9.6100	1.3600
0.1180	0.5600	14.2500	1.8800

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0451)	82.810	8.794	12.33	86.49
OUTFLOW: ID= 1 (0440)	82.810	4.256	12.58	86.49

PEAK FLOW REDUCTION [Qout/Qin](%)= 48.40
 TIME SHIFT OF PEAK FLOW (min)= 15.00
 MAXIMUM STORAGE USED (ha.m.)= 1.1003

 | READ STORM |
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64

4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0021) | Area (ha)= 47.88 Curve Number (CN)= 73.0
| ID= 1 DT= 5.0 min | Ia (mm)= 8.00 # of Linear Res.(N)= 2.00
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| U.H. Tp(hrs)= 2.20

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64

2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.565

PEAK FLOW (cms)= 1.144 (i)

TIME TO PEAK (hrs)= 14.833
 RUNOFF VOLUME (mm)= 74.468
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.544

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM Ptotal=136.80 mm	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba Comments: 100yr 24hr 15min SCS
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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB STANDHYD (0022) ID= 1 DT= 5.0 min	Area (ha)= 13.00 Total Imp(%)= 67.00 Dir. Conn.(%)= 53.00
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IMPERVIOUS PERVIOUS (i)

Surface Area	(ha)=	8.71	4.29
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	0.50
Length	(m)=	294.39	10.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64

3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	202.65
over (min)	5.00	10.00
Storage Coeff. (min)=	4.89 (ii)	8.03 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.22	0.13

TOTALS

PEAK FLOW (cms)=	3.09	1.91	4.999 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	135.80	100.61	119.26
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.74	0.87

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 79.0 Ia = Dep. Storage (Above)

- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0411)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0021):	47.88	1.144	14.83	74.47
+ ID2= 2 (0022):	13.00	4.999	12.25	119.26
=====				
ID = 3 (0411):	60.88	5.288	12.25	84.03

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0434)	OVERFLOW IS OFF			
IN= 2---> OUT= 1	OUTFLOW	STORAGE	OUTFLOW	STORAGE
DT= 5.0 min	(cms)	(ha.m.)	(cms)	(ha.m.)
	0.0000	0.0000	0.4800	0.5150
	0.0160	0.0830	1.2900	0.5720
	0.0220	0.1700	2.3390	0.6300
	0.0270	0.2620	3.5810	0.6900
	0.0320	0.3580	4.9900	0.7500
	0.0350	0.4590	0.0000	0.0000
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0411)	60.880	5.288	12.25	84.03
OUTFLOW: ID= 1 (0434)	60.880	3.708	12.33	84.01
	PEAK FLOW REDUCTION [Qout/Qin](%)=	70.14		
	TIME SHIFT OF PEAK FLOW	(min)= 5.00		
	MAXIMUM STORAGE USED	(ha.m.)= 0.6991		

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba							
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN	
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46	
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46	
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46	

1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB							
STANDHYD (0427)		Area (ha)=	12.72				
ID= 1 DT= 5.0 min		Total Imp(%)=	25.30	Dir. Conn.(%)=	3.00		

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	3.22	9.50
Dep. Storage	(mm)=	1.00	4.00
Average Slope	(%)=	0.50	0.50
Length	(m)=	220.00	10.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46

0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64

5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 163.56
over (min) 5.00 10.00
Storage Coeff. (min)= 4.11 (ii) 7.93 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.24 0.13

TOTALS
3.542 (iii)

PEAK FLOW (cms)= 0.17 3.37
TIME TO PEAK (hrs)= 12.25 12.25
RUNOFF VOLUME (mm)= 135.80 86.77
TOTAL RAINFALL (mm)= 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.63

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0461) |
| 1 + 2 = 3 |
-----

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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0427):	12.72	3.542	12.25	88.24
+ ID2= 2 (0434):	60.88	3.708	12.33	84.01
=====				
ID = 3 (0461):	73.60	6.908	12.33	84.74

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

| RESERVOIR( 0413) |
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
-----

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OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0830	0.5800
0.0370	0.1125	1.9000	0.7700
0.0530	0.2275	6.4000	1.1000
0.0650	0.3450	9.2000	1.2500
0.0750	0.4630	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0461)	73.600	6.908	12.33	84.74
OUTFLOW: ID= 1 (0413)	73.600	3.260	12.58	84.73

PEAK FLOW REDUCTION [Qout/Qin](%)= 47.19
 TIME SHIFT OF PEAK FLOW (min)= 15.00
 MAXIMUM STORAGE USED (ha.m.)= 0.8718

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-----
| ADD HYD ( 0465) |
| 1 + 2 = 3      |
-----

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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0413):	73.60	3.260	12.58	84.73
+ ID2= 2 (0440):	82.81	4.256	12.58	86.49
=====				
ID = 3 (0465):	156.41	7.516	12.58	85.66

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ADD HYD ( 0437) |
| 1 + 2 = 3      |
-----

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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0460):	23.12	2.678	12.83	91.19
+ ID2= 2 (0465):	156.41	7.516	12.58	85.66
=====				
ID = 3 (0437):	179.53	9.469	12.58	86.37

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| READ STORM      |
| Ptotal=136.80 mm |
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Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB			
STANDHYD (0449)	Area (ha)=	11.34	
ID= 1 DT= 5.0 min	Total Imp(%)=	35.00	Dir. Conn.(%)= 20.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	3.97	7.37
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	0.50
Length (m)=	274.95	40.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46

0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64

4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 169.18
over (min) 5.00 15.00
Storage Coeff. (min)= 5.12 (ii) 12.70 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.21 0.08

TOTALS

PEAK FLOW (cms)= 1.01 2.16 2.909 (iii)
TIME TO PEAK (hrs)= 12.25 12.33 12.25
RUNOFF VOLUME (mm)= 135.80 96.52 104.38
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.71 0.76

***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0402) |
| 1 + 2 = 3 |
-----

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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0437):	179.53	9.469	12.58	86.37
+ ID2= 2 (0449):	11.34	2.909	12.25	104.38
=====				
ID = 3 (0402):	190.87	10.761	12.58	87.44

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
Local\Temp\
f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
STANDHYD (0392)
ID= 1 DT= 5.0 min

Area (ha)= 10.08
Total Imp(%)= 85.00 Dir. Conn.(%)= 85.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	8.57	1.51
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	0.50
Length (m)=	320.00	40.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64

3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	129.63
over (min)	5.00	10.00
Storage Coeff. (min)=	5.60 (ii)	9.41 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.20	0.12

			TOTALS
PEAK FLOW (cms)=	3.77	0.40	4.175 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	135.80	90.26	128.97
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.66	0.94

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| RESERVOIR( 0456) |
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
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OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0430	0.3300
0.0130	0.2600	3.5000	0.3800

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0392)	10.080	4.175	12.25	128.97
OUTFLOW: ID= 1 (0456)	10.080	3.984	12.25	126.68

PEAK FLOW REDUCTION [Qout/Qin](%)= 95.44
 TIME SHIFT OF PEAK FLOW (min)= 0.00
 MAXIMUM STORAGE USED (ha.m.)= 0.3899

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-----
| ADD HYD ( 0468) |
| 1 + 2 = 3       |
-----

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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0402):	190.87	10.761	12.58	87.44
+ ID2= 2 (0456):	10.08	3.984	12.25	126.68
=====				
ID = 3 (0468):	200.95	11.539	12.58	89.41

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ROUTE CHN( 0464) |
| IN= 2---> OUT= 1 |
-----

```

Routing time step (min)'= 5.00

<----- DATA FOR SECTION (1.1) ----->

Distance	Elevation	Manning	
0.00	208.50	0.0800	
17.50	205.99	0.0800	
23.70	205.99	0.0800 /0.0350	Main Channel
23.90	205.59	0.0350	Main Channel
26.10	205.59	0.0350	Main Channel
26.30	205.99	0.0350 /0.0800	Main Channel
32.50	205.99	0.0800	
42.50	208.50	0.0800	
50.00	209.10	0.0800	
53.60	210.15	0.0800	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.13	205.72	.756E+02	0.1	0.39	10.71
0.27	205.86	.156E+03	0.4	0.58	7.13

0.40	205.99	.240E+03	0.7	0.73	5.72
0.56	206.15	.862E+03	1.7	0.48	8.62
0.71	206.30	.155E+04	3.3	0.53	7.91
0.87	206.46	.231E+04	5.4	0.59	7.10
1.03	206.62	.313E+04	8.1	0.65	6.45
1.18	206.77	.403E+04	11.3	0.70	5.93
1.34	206.93	.499E+04	15.1	0.75	5.52
1.50	207.09	.601E+04	19.3	0.80	5.18
1.66	207.24	.711E+04	24.2	0.85	4.90
1.81	207.40	.827E+04	29.6	0.89	4.66
1.97	207.56	.950E+04	35.6	0.94	4.45
2.13	207.72	.108E+05	42.2	0.98	4.26
2.28	207.87	.122E+05	49.4	1.02	4.10
2.44	208.03	.136E+05	57.2	1.05	3.96
2.60	208.19	.151E+05	65.7	1.09	3.83
2.75	208.34	.167E+05	74.9	1.12	3.71
2.91	208.50	.183E+05	84.7	1.16	3.60

		<---- hydrograph ---->				<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL	
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)	
INFLOW : ID= 2 (0468)	200.95	11.54	12.58	89.41	1.19	0.71	
OUTFLOW: ID= 1 (0464)	200.95	11.07	12.67	89.41	1.17	0.70	

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-----
| READ STORM |
|           |
| Ptotal=136.80 mm |
|           |
-----

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Filename: C:\Users\p001130E\AppData
         ata\Local\Temp\
         f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Comments: 100yr 24hr 15min SCS

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64

4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB			
NASHYD (0433)			
ID= 1 DT= 5.0 min			

Area	(ha)=	3.67	Curve Number (CN)= 72.0
Ia	(mm)=	5.00	# of Linear Res.(N)= 3.00
U.H. Tp	(hrs)=	0.20	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64

2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.701

PEAK FLOW (cms)= 0.714 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 75.194
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.550

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | READ STORM | Filename: C:\Users\p001130E\AppData
 | | ata\Local\Temp\
 | | f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 | Ptotal=136.80 mm | Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | STANDHYD (0436) | Area (ha)= 13.86
 | ID= 1 DT= 5.0 min | Total Imp(%)= 85.00 Dir. Conn.(%)= 85.00

Surface Area (ha)= IMPERVIOUS 11.78 PERVIOUS (i) 2.08

Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	0.50
Length	(m)=	303.97	40.00
Mannings n	=	0.013	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64

3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	129.63
over (min)	5.00	10.00
Storage Coeff. (min)=	4.99 (ii)	8.79 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.22	0.12

TOTALS

PEAK FLOW (cms)=	5.27	0.57	5.838 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	135.80	90.26	128.97
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.66	0.94

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.
 (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0397)	OVERFLOW IS OFF			
IN= 2--> OUT= 1				
DT= 5.0 min				
	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0590	0.4500
	0.0180	0.3500	4.5000	0.5000
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0436)	13.860	5.838	12.25	128.97
OUTFLOW: ID= 1 (0397)	13.860	5.673	12.25	126.86
	PEAK FLOW REDUCTION [Qout/Qin](%)= 97.18			
	TIME SHIFT OF PEAK FLOW (min)= 0.00			
	MAXIMUM STORAGE USED (ha.m.)= 0.5157			

ADD HYD (0443)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0397):	13.86	5.673	12.25	126.86
+ ID2= 2 (0433):	3.67	0.714	12.33	75.19
=====				
ID = 3 (0443):	17.53	6.339	12.25	116.05

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0425)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0443):	17.53	6.339	12.25	116.05
+ ID2= 2 (0464):	200.95	11.069	12.67	89.41
=====				
ID = 3 (0425):	218.48	12.189	12.67	91.55

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
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| Ptotal=136.80 mm | Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB			
NASHYD (0421)	Area (ha)=	4.08	Curve Number (CN)= 72.0
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.10	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46

0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64

4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.558

PEAK FLOW (cms)= 1.135 (i)
 TIME TO PEAK (hrs)= 12.250
 RUNOFF VOLUME (mm)= 73.380
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.536

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0393)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0421):	4.08	1.135	12.25	73.38
+ ID2= 2 (0425):	218.48	12.189	12.67	91.55
=====				
ID = 3 (0393):	222.56	12.666	12.25	91.22

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\
Ptotal=136.80 mm	f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46

1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB	
STANDHYD (0401)	Area (ha)= 23.92
ID= 1 DT= 5.0 min	Total Imp(%)= 85.00 Dir. Conn.(%)= 85.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	20.33	3.59
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	0.50
Length (m)=	399.33	40.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46

0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64

5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 129.63
over (min) 5.00 10.00
Storage Coeff. (min)= 5.20 (ii) 9.00 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.21 0.12

TOTALS

PEAK FLOW (cms)= 9.05 0.97 10.018 (iii)
TIME TO PEAK (hrs)= 12.25 12.25 12.25
RUNOFF VOLUME (mm)= 135.80 90.26 128.97
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.66 0.94

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0410) |
| IN= 2---> OUT= 1 |
DT= 5.0 min

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	10.0000	0.3560
1.7940	0.3550	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0401)	23.920	10.018	12.25	128.97
OUTFLOW: ID= 1 (0410)	23.920	12.175	12.17	128.97

PEAK FLOW REDUCTION [Qout/Qin](%)=121.52
TIME SHIFT OF PEAK FLOW (min)= -5.00
MAXIMUM STORAGE USED (ha.m.)= 0.4007

**** WARNING : HYDROGRAPH PEAK WAS NOT REDUCED.
CHECK OUTFLOW/STORAGE TABLE OR REDUCE DT.

ADD HYD (0458)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0393):		222.56	12.666	12.25	91.22
+ ID2= 2 (0410):		23.92	12.175	12.17	128.97

ID = 3 (0458):		246.48	21.917	12.17	94.88

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | STANDHYD (0442) |
ID= 1 DT= 5.0 min

Area (ha)= 36.03
 Total Imp(%)= 85.00 Dir. Conn.(%)= 85.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	30.63	5.40
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	0.50
Length (m)=	500.00	40.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64

2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	129.63
over (min)	5.00	15.00
Storage Coeff. (min)=	7.32 (ii)	11.13 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.17	0.09

TOTALS

PEAK FLOW (cms)=	12.81	1.27	13.932 (iii)
TIME TO PEAK (hrs)=	12.25	12.33	12.25

RUNOFF VOLUME	(mm)=	135.80	90.26	128.97
TOTAL RAINFALL	(mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT	=	0.99	0.66	0.94

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| RESERVOIR( 0447) |
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
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OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	10.0000	0.5100
2.7023	0.5090	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0442)	36.030	13.932	12.25	128.97
OUTFLOW: ID= 1 (0447)	36.030	13.438	12.17	128.97

PEAK FLOW REDUCTION [Qout/Qin](%)= 96.45
TIME SHIFT OF PEAK FLOW (min)= -5.00
MAXIMUM STORAGE USED (ha.m.)= 0.5301

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| ADD HYD ( 0418) |
| 1 + 2 = 3       |
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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0447):	36.03	13.438	12.17	128.97
+ ID2= 2 (0458):	246.48	21.917	12.17	94.88
=====				
ID = 3 (0418):	282.51	35.355	12.17	99.23

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| RESERVOIR( 0441) |
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
-----

```

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	1.6990	1.0780
0.1310	0.0010	3.4270	2.2830
0.6360	0.0400	17.6780	3.7480
1.2810	0.3280	38.1890	5.3720

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0418)	282.514	35.355	12.17	99.23
OUTFLOW: ID= 1 (0441)	282.514	16.062	12.75	99.23

PEAK FLOW REDUCTION [Qout/Qin](%)= 45.43
 TIME SHIFT OF PEAK FLOW (min)= 35.00
 MAXIMUM STORAGE USED (ha.m.)= 3.5856

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\
	f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB	Area	(ha)= 23.47	Curve Number	(CN)= 73.0
NASHYD (0467)				

|ID= 1 DT= 5.0 min | Ia (mm)= 8.00 # of Linear Res.(N)= 2.00
 ----- U.H. Tp(hrs)= 1.20

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64

3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.508

PEAK FLOW (cms)= 0.906 (i)

TIME TO PEAK (hrs)= 13.583

RUNOFF VOLUME (mm)= 74.447

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.544

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0408)				
1 + 2 = 3				

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0441):	282.51	16.062	12.75	99.23
+ ID2= 2 (0467):	23.47	0.906	13.58	74.45
=====				

ID = 3 (0408): 305.98 16.790 12.75 97.33

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
-----  
| ADD HYD ( 0445) |  
| 1 + 2 = 3 |  
-----  
          AREA      QPEAK      TPEAK      R.V.  
          (ha)      (cms)      (hrs)      (mm)  
ID1= 1 ( 0398): 149.56  6.290  13.17  95.87  
+ ID2= 2 ( 0408): 305.98 16.790  12.75  97.33  
-----  
ID = 3 ( 0445): 455.54 22.462  12.92  96.85
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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----  
| ROUTE CHN( 0457) |  
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00  
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```

```
<----- DATA FOR SECTION ( 2.0) ----->  
Distance      Elevation      Manning  
0.00          101.30         0.0300  
3.00          100.70         0.0300  
6.00          100.70         0.0300  
13.00         100.40         0.0300  
17.00         100.30         0.0300 /0.0300 Main Channel  
18.00         100.00         0.0300 Main Channel  
18.50         100.30         0.0300 /0.0300 Main Channel  
22.00         100.40         0.0300  
29.00         100.70         0.0300  
32.00         100.70         0.0300  
35.00         101.30         0.0300
```

```
<----- TRAVEL TIME TABLE ----->  
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME  
(m)        (m)        (cu.m.)      (cms)          (m/s)         (min)  
0.06  100.06  .675E+01     0.0            0.19          64.83  
0.12  100.12  .270E+02     0.0            0.31          40.84  
0.18  100.18  .607E+02     0.0            0.40          31.17  
0.24  100.24  .108E+03     0.1            0.49          25.73  
0.30  100.30  .169E+03     0.1            0.56          22.17  
0.37  100.37  .393E+03     0.3            0.55          22.84  
0.44  100.44  .884E+03     0.7            0.57          21.96  
0.51  100.51  .156E+04     1.3            0.64          19.38  
0.59  100.59  .242E+04     2.3            0.73          17.22  
0.66  100.66  .346E+04     3.7            0.81          15.51  
0.73  100.73  .479E+04     5.2            0.81          15.47  
0.80  100.80  .637E+04     8.0            0.94          13.31  
0.87  100.87  .800E+04    11.3           1.06          11.76  
0.94  100.94  .967E+04    15.2           1.18          10.60
```

1.01	101.01	.114E+05	19.5	1.29	9.70
1.09	101.09	.131E+05	24.4	1.39	8.97
1.16	101.16	.149E+05	29.6	1.49	8.38
1.23	101.23	.167E+05	35.3	1.59	7.88
1.30	101.30	.186E+05	41.5	1.68	7.46

		<---- hydrograph ---->				<-pipe / channel->	
		AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
		(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0445)	455.54	22.46	12.92	96.85	1.06	1.35
OUTFLOW:	ID= 1 (0457)	455.54	22.05	13.00	96.85	1.05	1.34

```

-----
| READ STORM |
|            |
| Ptotal=136.80 mm |
|            |
-----
Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Comments: 100yr 24hr 15min SCS

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | STANDHYD (0396) |
ID= 1 DT= 5.0 min

Area (ha)= 6.73
 Total Imp(%)= 85.00 Dir. Conn.(%)= 85.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	5.72	1.01
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	0.50
Length	(m)=	211.82	76.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64

2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	125.03
over (min)	5.00	20.00
Storage Coeff. (min)=	4.01 (ii)	18.39 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.24	0.06

			TOTALS
PEAK FLOW (cms)=	2.61	0.18	2.738 (iii)
TIME TO PEAK (hrs)=	12.25	12.42	12.25
RUNOFF VOLUME (mm)=	135.80	90.26	128.97
TOTAL RAINFALL (mm)=	136.80	136.80	136.80

RUNOFF COEFFICIENT = 0.99 0.66 0.94

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| RESERVOIR( 0428) | OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
-----
      OUTFLOW   STORAGE | OUTFLOW   STORAGE
      (cms)     (ha.m.) | (cms)     (ha.m.)
      0.0000    0.0000 | 2.0000    0.1000

      AREA      QPEAK   TPEAK   R.V.
      (ha)      (cms)   (hrs)   (mm)
INFLOW : ID= 2 ( 0396) 6.730   2.738   12.25  128.97
OUTFLOW: ID= 1 ( 0428) 6.730   2.081   12.25  128.97

      PEAK FLOW REDUCTION [Qout/Qin](%)= 76.00
      TIME SHIFT OF PEAK FLOW (min)= 0.00
      MAXIMUM STORAGE USED (ha.m.)= 0.1139
  
```

```

-----
| ADD HYD ( 0395) |
| 1 + 2 = 3       |
-----
      AREA      QPEAK   TPEAK   R.V.
      (ha)      (cms)   (hrs)   (mm)
      ID1= 1 ( 0428): 6.73  2.081  12.25  128.97
      + ID2= 2 ( 0457): 455.54 22.054  13.00  96.85
      =====
      ID = 3 ( 0395): 462.27 22.365  13.00  97.31
  
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| READ STORM      |
|                |
| Ptotal=136.80 mm |
-----
      Filename: C:\Users\p001130E\AppData
                ata\Local\Temp\
                f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
      Comments: 100yr 24hr 15min SCS

      TIME    RAIN | TIME    RAIN | TIME    RAIN | TIME    RAIN
      hrs     mm/hr | hrs     mm/hr | hrs     mm/hr | hrs     mm/hr
      0.25    0.00 | 6.50    2.46 | 12.75   19.70 | 19.00   2.46
      0.50    1.50 | 6.75    2.46 | 13.00   10.12 | 19.25   2.46
  
```

0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

| CALIB |
| STANDHYD (0041) |
ID= 1 DT= 5.0 min

Area (ha)= 107.00
Total Imp(%)= 52.00 Dir. Conn.(%)= 35.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	55.64	51.36
Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	789.00	789.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46

0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64

4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 73.22
over (min) 10.00 55.00
Storage Coeff. (min)= 9.63 (ii) 51.48 (ii)
Unit Hyd. Tpeak (min)= 10.00 55.00
Unit Hyd. peak (cms)= 0.11 0.02

TOTALS

PEAK FLOW (cms)= 13.35 6.01 15.311 (iii)
TIME TO PEAK (hrs)= 12.25 13.00 12.25
RUNOFF VOLUME (mm)= 135.30 88.25 104.72
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.65 0.77

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0435)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0395):	462.27	22.365	13.00	97.31
+ ID2= 2 (0041):	107.00	15.311	12.25	104.72
=====				
ID = 3 (0435):	569.27	29.886	13.00	98.70

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ROUTE CHN(0043)	
IN= 2---> OUT= 1	Routing time step (min)'= 1.00

<----- DATA FOR SECTION (3.0) ----->

Distance	Elevation	Manning	
0.00	101.30	0.0300	
3.00	100.70	0.0300	
6.00	100.70	0.0300	
13.00	100.40	0.0300	
17.00	100.30	0.0300 /0.0130	Main Channel
18.00	100.00	0.0130	Main Channel
18.50	100.30	0.0130 /0.0300	Main Channel
22.00	100.40	0.0300	
29.00	100.70	0.0300	
32.00	100.70	0.0300	
35.00	101.30	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.06	100.06	.675E+01	0.0	0.44	28.09
0.12	100.12	.270E+02	0.0	0.71	17.70
0.18	100.18	.607E+02	0.1	0.93	13.51
0.24	100.24	.108E+03	0.2	1.12	11.15
0.30	100.30	.169E+03	0.3	1.30	9.61
0.37	100.37	.393E+03	0.6	1.15	10.83
0.44	100.44	.884E+03	1.2	1.00	12.52
0.51	100.51	.156E+04	2.1	0.99	12.57
0.59	100.59	.242E+04	3.3	1.03	12.13
0.66	100.66	.346E+04	5.0	1.08	11.57
0.73	100.73	.479E+04	6.7	1.05	11.85
0.80	100.80	.637E+04	9.9	1.16	10.74
0.87	100.87	.800E+04	13.6	1.28	9.79
0.94	100.94	.967E+04	17.9	1.39	9.02
1.01	101.01	.114E+05	22.6	1.49	8.38
1.09	101.09	.131E+05	27.9	1.59	7.84
1.16	101.16	.149E+05	33.6	1.69	7.39
1.23	101.23	.167E+05	39.8	1.79	7.00
1.30	101.30	.186E+05	46.4	1.88	6.66

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0435)	569.27	29.89	13.00	98.70	1.11	1.63
OUTFLOW: ID= 1 (0043)	569.27	29.45	13.07	89.06	1.10	1.62

***** WARNING : THE HYD WAS CUT TO 2000 POINTS

READ STORM

Filename: C:\Users\p001130E\AppData\Local\Temp\

Ptotal=136.80 mm

f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 STANDHYD (0044)
 ID= 1 DT= 5.0 min

Area (ha)= 80.00
 Total Imp(%)= 52.00 Dir. Conn.(%)= 35.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	41.60	38.40
Dep. Storage (mm)=	1.50	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	730.00	730.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
-------------	---------------	-------------	---------------	-------------	---------------	-------------	---------------

0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64

4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 79.68
over (min) 10.00 50.00
Storage Coeff. (min)= 9.19 (ii) 47.81 (ii)
Unit Hyd. Tpeak (min)= 10.00 50.00
Unit Hyd. peak (cms)= 0.12 0.02

TOTALS

PEAK FLOW (cms)= 10.16 4.76 11.810 (iii)
TIME TO PEAK (hrs)= 12.25 12.92 12.25
RUNOFF VOLUME (mm)= 135.30 88.25 104.72
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.65 0.77

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia =Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0045) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0043):  569.27  29.454  13.07  89.06
+ ID2= 2 ( 0044):  80.00  11.810  12.25  104.72
=====

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ID = 3 (0045): 649.27 35.146 13.00 90.99

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | ROUTE CHN(0046) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (4.0) ----->
 Distance Elevation Manning
 0.00 102.50 0.0300
 3.00 101.90 0.0300
 6.00 101.90 0.0300
 13.00 100.50 0.0300
 21.50 100.30 0.0300 /0.0130 Main Channel
 22.00 100.00 0.0130 Main Channel
 23.00 100.30 0.0130 /0.0300 Main Channel
 32.00 100.50 0.0300
 39.00 100.90 0.0300
 42.00 100.90 0.0300
 45.00 102.50 0.0300

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.188E+02	0.0	0.44	28.26
0.20	100.20	.750E+02	0.1	0.70	17.80
0.30	100.30	.169E+03	0.2	0.92	13.59
0.44	100.44	.944E+03	0.8	0.65	19.21
0.58	100.58	.282E+04	2.6	0.68	18.34
0.71	100.71	.512E+04	5.6	0.82	15.26
0.85	100.85	.773E+04	9.8	0.95	13.20
0.99	100.99	.108E+05	15.0	1.04	12.00
1.13	101.13	.141E+05	22.3	1.18	10.57
1.26	101.26	.175E+05	30.7	1.32	9.50
1.40	101.40	.210E+05	40.4	1.44	8.68
1.54	101.54	.246E+05	51.2	1.56	8.02
1.68	101.68	.283E+05	63.1	1.67	7.48
1.81	101.81	.321E+05	76.1	1.78	7.03
1.95	101.95	.361E+05	87.3	1.81	6.90
2.09	102.09	.404E+05	103.2	1.91	6.53
2.23	102.23	.448E+05	120.2	2.01	6.21
2.36	102.36	.493E+05	138.4	2.10	5.94
2.50	102.50	.539E+05	157.8	2.20	5.69

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0045)	649.27	35.15	13.00	90.99	1.33	1.37
OUTFLOW: ID= 1 (0046)	649.27	34.43	13.10	90.93	1.31	1.36

READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 STANDHYD (0047)
 ID= 1 DT= 5.0 min

Area (ha)= 72.00
 Total Imp(%)= 50.00 Dir. Conn.(%)= 33.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	36.00	36.00
Dep. Storage (mm)=	1.50	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	693.00	693.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64

3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 78.53
over (min) 10.00 50.00
Storage Coeff. (min)= 8.91 (ii) 46.55 (ii)
Unit Hyd. Tpeak (min)= 10.00 50.00
Unit Hyd. peak (cms)= 0.12 0.02

TOTALS
PEAK FLOW (cms)= 8.72 4.46 10.262 (iii)
TIME TO PEAK (hrs)= 12.25 12.92 12.25
RUNOFF VOLUME (mm)= 135.30 87.91 103.55
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.64 0.76

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.


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| ADD HYD ( 0048) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0046):  649.27  34.430    13.10    90.93
+ ID2= 2 ( 0047):   72.00  10.262    12.25   103.55
=====
ID = 3 ( 0048):  721.27  39.453    13.03    92.19

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NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| READ STORM |
|           |
| Ptotal=136.80 mm |
-----
Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Comments: 100yr 24hr 15min SCS

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| STANDHYD ( 0049) |
| ID= 1 DT= 5.0 min |
-----
Area (ha)= 22.00
Total Imp(%)= 56.00 Dir. Conn.(%)= 38.00

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		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	12.32	9.68
Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	382.97	383.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64

3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	118.88
over (min)	5.00	30.00
Storage Coeff. (min)=	6.24 (ii)	28.59 (ii)
Unit Hyd. Tpeak (min)=	5.00	30.00
Unit Hyd. peak (cms)=	0.19	0.04

			TOTALS
PEAK FLOW (cms)=	3.62	1.81	4.545 (iii)
TIME TO PEAK (hrs)=	12.25	12.58	12.25
RUNOFF VOLUME (mm)=	135.30	89.51	106.91
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.65	0.78

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

- CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
 - (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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DUHYD ( 0050)
Inlet Cap.= 1.200
#of Inlets= 1
Total(cms)= 1.2

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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
TOTAL HYD.(ID= 1):	22.00	4.55	12.25	106.91
MAJOR SYS.(ID= 2):	4.69	3.35	12.25	106.91
MINOR SYS.(ID= 3):	17.31	1.20	12.08	106.91

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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READ STORM
Ptotal=136.80 mm

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Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64

5.75	2.19	12.00	40.49	18.25	2.46
6.00	2.19	12.25	167.44	18.50	2.46
6.25	2.19	12.50	19.70	18.75	2.46

 | CALIB |
 | STANDHYD (0051) |
ID= 1 DT= 5.0 min

Area (ha)= 16.50
 Total Imp(%)= 56.00 Dir. Conn.(%)= 38.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	9.24	7.26
Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	332.00	332.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64

2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	139.84
over (min)	5.00	25.00
Storage Coeff. (min)=	5.73 (ii)	24.95 (ii)
Unit Hyd. Tpeak (min)=	5.00	25.00

Unit Hyd. peak (cms)=	0.20	0.05	
			TOTALS
PEAK FLOW (cms)=	2.75	1.50	3.634 (iii)
TIME TO PEAK (hrs)=	12.25	12.50	12.25
RUNOFF VOLUME (mm)=	135.30	89.51	106.91
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.65	0.78

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

DUHYD (0052)				
Inlet Cap.= 1.800				
#of Inlets= 1				
Total(cms)= 1.8				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
TOTAL HYD.(ID= 1):	16.50	3.63	12.25	106.91
=====				
MAJOR SYS.(ID= 2):	1.43	1.83	12.25	106.91
MINOR SYS.(ID= 3):	15.07	1.80	12.08	106.91

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0053)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0050):	4.69	3.345	12.25	106.91
+ ID2= 2 (0052):	1.43	1.834	12.25	106.91
=====				
ID = 3 (0053):	6.12	5.180	12.25	106.91

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0054)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0048):	721.27	39.453	13.03	92.19
+ ID2= 2 (0053):	6.12	5.180	12.25	106.91
=====				
ID = 3 (0054):	727.39	39.632	13.02	92.32

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | ROUTE CHN(0055)|
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (5.0) ----->
 Distance Elevation Manning
 0.00 102.50 0.0300
 3.00 101.90 0.0300
 6.00 101.90 0.0300
 13.00 100.50 0.0300
 21.50 100.30 0.0300 /0.0130 Main Channel
 22.00 100.00 0.0130 Main Channel
 23.00 100.30 0.0130 /0.0300 Main Channel
 32.00 100.50 0.0300
 39.00 100.90 0.0300
 42.00 100.90 0.0300
 45.00 102.50 0.0300

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.163E+02	0.0	0.70	15.49
0.20	100.20	.650E+02	0.1	1.11	9.76
0.30	100.30	.146E+03	0.3	1.45	7.45
0.44	100.44	.818E+03	1.3	1.03	10.53
0.58	100.58	.245E+04	4.1	1.08	10.05
0.71	100.71	.443E+04	8.8	1.29	8.37
0.85	100.85	.670E+04	15.4	1.50	7.23
0.99	100.99	.937E+04	23.7	1.65	6.58
1.13	101.13	.122E+05	35.2	1.87	5.79
1.26	101.26	.152E+05	48.6	2.08	5.21
1.40	101.40	.182E+05	63.9	2.28	4.76
1.54	101.54	.213E+05	80.9	2.46	4.40
1.68	101.68	.245E+05	99.8	2.64	4.10
1.81	101.81	.278E+05	120.4	2.81	3.85
1.95	101.95	.313E+05	138.0	2.87	3.78
2.09	102.09	.350E+05	163.1	3.03	3.58
2.23	102.23	.388E+05	190.0	3.18	3.41
2.36	102.36	.427E+05	218.8	3.33	3.26
2.50	102.50	.467E+05	249.5	3.47	3.12

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0054)	727.39	39.63	13.02	92.32	1.17	1.93
OUTFLOW: ID= 1 (0055)	727.39	39.39	13.08	92.29	1.17	1.93

READ STORM
 Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB
 STANDHYD (0056)
 ID= 1 DT= 5.0 min

Area (ha)= 45.00
 Total Imp(%)= 50.00 Dir. Conn.(%)= 36.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	22.50	22.50
Dep. Storage (mm)=	1.50	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	547.72	548.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64

3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 81.38
over (min) 10.00 40.00
Storage Coeff. (min)= 7.74 (ii) 39.97 (ii)
Unit Hyd. Tpeak (min)= 10.00 40.00
Unit Hyd. peak (cms)= 0.13 0.03

TOTALS

PEAK FLOW (cms)= 6.23 2.95 7.422 (iii)
TIME TO PEAK (hrs)= 12.25 12.75 12.25
RUNOFF VOLUME (mm)= 135.30 86.44 104.03
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.63 0.76

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0057) |

1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0055):	727.39	39.386	13.08	92.29
+ ID2= 2 (0056):	45.00	7.422	12.25	104.03
=====				
ID = 3 (0057):	772.39	42.314	13.05	92.97

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | ROUTE CHN(0058) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (6.0) ----->

Distance	Elevation	Manning	
0.00	102.40	0.0300	
5.50	101.30	0.0300	
18.00	101.10	0.0300	
21.00	100.50	0.0300	
29.50	100.30	0.0300 /0.0130	Main Channel
30.00	100.00	0.0130	Main Channel
31.00	100.30	0.0130 /0.0300	Main Channel
38.50	100.50	0.0300	
41.50	101.10	0.0300	
54.50	101.30	0.0300	
60.00	102.40	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.200E+02	0.0	0.38	34.81
0.20	100.20	.800E+02	0.1	0.61	21.93
0.30	100.30	.180E+03	0.2	0.80	16.73
0.43	100.43	.889E+03	0.7	0.59	22.59
0.56	100.56	.259E+04	2.0	0.60	22.10
0.69	100.69	.456E+04	4.2	0.73	18.19
0.83	100.83	.667E+04	7.2	0.86	15.54
0.96	100.96	.892E+04	10.8	0.97	13.72
1.09	101.09	.113E+05	15.2	1.08	12.39
1.22	101.22	.145E+05	17.1	0.95	14.10
1.35	101.35	.193E+05	23.0	0.95	13.97
1.48	101.48	.246E+05	32.6	1.06	12.55
1.61	101.61	.300E+05	43.7	1.17	11.43
1.74	101.74	.355E+05	56.2	1.27	10.54
1.88	101.88	.412E+05	70.0	1.36	9.81
2.01	102.01	.470E+05	85.2	1.45	9.20
2.14	102.14	.530E+05	101.7	1.54	8.68
2.27	102.27	.591E+05	119.5	1.62	8.24
2.40	102.40	.653E+05	138.5	1.70	7.86

<----- hydrograph -----> <-pipe / channel->

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0057)	772.39	42.31	13.05	92.97	1.60	1.15
OUTFLOW: ID= 1 (0058)	772.39	41.44	13.17	92.90	1.58	1.14

READ STORM
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | STANDHYD (0059) |
ID= 1 DT= 5.0 min

Area (ha)= 50.00
 Total Imp(%)= 49.00 Dir. Conn.(%)= 34.00

Surface Area	(ha)=	IMPERVIOUS	PERVIOUS (i)
		24.50	25.50

Dep. Storage (mm)= 1.50 1.50
 Average Slope (%)= 0.50 2.00
 Length (m)= 577.35 577.00
 Mannings n = 0.015 0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64

3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 82.63
over (min) 10.00 45.00
Storage Coeff. (min)= 7.98 (ii) 41.03 (ii)
Unit Hyd. Tpeak (min)= 10.00 45.00
Unit Hyd. peak (cms)= 0.13 0.03

TOTALS

PEAK FLOW (cms)= 6.47 3.28 7.689 (iii)
TIME TO PEAK (hrs)= 12.25 12.83 12.25
RUNOFF VOLUME (mm)= 135.30 86.79 103.29
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.63 0.76

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0060)|
| 1 + 2 = 3 |
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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0058):	772.39	41.439	13.17	92.90
+ ID2= 2 (0059):	50.00	7.689	12.25	103.29
=====				
ID = 3 (0060):	822.39	44.640	13.12	93.53

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| ROUTE CHN( 0061)|
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
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<----- DATA FOR SECTION ( 7.0) ----->

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Distance	Elevation	Manning	
0.00	102.40	0.0300	
5.50	101.30	0.0300	
18.00	101.10	0.0300	
21.00	100.50	0.0300	
29.50	100.30	0.0300 /0.0130	Main Channel
30.00	100.00	0.0130	Main Channel
31.00	100.30	0.0130 /0.0300	Main Channel
38.50	100.50	0.0300	
41.50	101.10	0.0300	
54.50	101.30	0.0300	
60.00	102.40	0.0300	

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<----- TRAVEL TIME TABLE ----->

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DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.150E+02	0.0	0.38	26.11
0.20	100.20	.600E+02	0.1	0.61	16.45
0.30	100.30	.135E+03	0.2	0.80	12.55
0.43	100.43	.667E+03	0.7	0.59	16.94
0.56	100.56	.194E+04	2.0	0.60	16.58
0.69	100.69	.342E+04	4.2	0.73	13.64
0.83	100.83	.500E+04	7.2	0.86	11.65
0.96	100.96	.669E+04	10.8	0.97	10.29
1.09	101.09	.848E+04	15.2	1.08	9.29
1.22	101.22	.109E+05	17.1	0.95	10.58
1.35	101.35	.145E+05	23.0	0.95	10.48
1.48	101.48	.184E+05	32.6	1.06	9.41
1.61	101.61	.225E+05	43.7	1.17	8.58
1.74	101.74	.266E+05	56.2	1.27	7.90
1.88	101.88	.309E+05	70.0	1.36	7.36

2.01	102.01	.353E+05	85.2	1.45	6.90
2.14	102.14	.397E+05	101.7	1.54	6.51
2.27	102.27	.443E+05	119.5	1.62	6.18
2.40	102.40	.490E+05	138.5	1.70	5.89

		<---- hydrograph ---->				<-pipe / channel->	
		AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
		(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0060)	822.39	44.64	13.12	93.53	1.62	1.17
OUTFLOW:	ID= 1 (0061)	822.39	44.14	13.22	93.48	1.62	1.17

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\
Ptotal=136.80 mm	f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB		
STANDHYD (0062)		Area (ha)= 65.00
ID= 1 DT= 5.0 min		Total Imp(%)= 50.00 Dir. Conn.(%)= 34.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	32.50	32.50
Dep. Storage (mm)=	1.50	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	658.28	658.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64

2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	76.92
over (min)	10.00	50.00
Storage Coeff. (min)=	8.64 (ii)	45.44 (ii)
Unit Hyd. Tpeak (min)=	10.00	50.00
Unit Hyd. peak (cms)=	0.12	0.02

PEAK FLOW (cms)=	8.19	4.00	9.577 (iii)
TIME TO PEAK (hrs)=	12.25	12.92	12.25
RUNOFF VOLUME (mm)=	135.30	87.43	103.71
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.64	0.76

TOTALS

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0063)				
1 + 2 = 3				
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0061):	822.39	44.143	13.22	93.48
+ ID2= 2 (0062):	65.00	9.577	12.25	103.71
=====				
ID = 3 (0063):	887.39	48.268	13.12	94.23

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64

5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | STANDHYD (0066) |
ID= 1 DT= 5.0 min

Area (ha)= 34.00
 Total Imp(%)= 47.00 Dir. Conn.(%)= 31.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	15.98	18.02
Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	476.10	476.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64

2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 93.83
 over (min) 5.00 40.00
 Storage Coeff. (min)= 7.11 (ii) 35.10 (ii)

Unit Hyd. Tpeak (min)=	5.00	40.00	
Unit Hyd. peak (cms)=	0.17	0.03	
			TOTALS
PEAK FLOW (cms)=	4.44	2.59	5.487 (iii)
TIME TO PEAK (hrs)=	12.25	12.75	12.25
RUNOFF VOLUME (mm)=	135.30	86.99	101.97
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.64	0.75

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| READ STORM |
|           |
| Ptotal=136.80 mm |
|           |
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Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Comments: 100yr 24hr 15min SCS

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | STANDHYD (0064) |
ID= 1 DT= 5.0 min

Area (ha)= 44.00
 Total Imp(%)= 57.00 Dir. Conn.(%)= 39.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	25.08	18.92
Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	541.60	542.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64

2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 105.64
over (min) 10.00 40.00
Storage Coeff. (min)= 7.68 (ii) 36.53 (ii)
Unit Hyd. Tpeak (min)= 10.00 40.00
Unit Hyd. peak (cms)= 0.13 0.03

TOTALS
7.834 (iii)

PEAK FLOW (cms)= 6.61 3.00

TIME TO PEAK	(hrs)=	12.25	12.75	12.25
RUNOFF VOLUME	(mm)=	135.30	89.72	107.50
TOTAL RAINFALL	(mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT	=	0.99	0.66	0.79

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ROUTE CHN(0065) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (8.0) ----->

Distance	Elevation	Manning	
0.00	102.30	0.0300	
10.00	100.30	0.0300	
37.00	100.30	0.0300 /0.0130	Main Channel
38.00	100.00	0.0130	Main Channel
38.50	100.30	0.0130 /0.0300	Main Channel
65.00	100.30	0.0300	
75.00	102.30	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH	ELEV	VOLUME	FLOW RATE	VELOCITY	TRAV.TIME
(m)	(m)	(cu.m.)	(cms)	(m/s)	(min)
0.10	100.10	.188E+02	0.0	0.38	32.63
0.20	100.20	.750E+02	0.1	0.61	20.56
0.30	100.30	.169E+03	0.2	0.79	15.72
0.43	100.43	.538E+04	2.7	0.37	33.75
0.55	100.55	.107E+05	7.8	0.55	22.83
0.68	100.68	.162E+05	15.1	0.70	17.88
0.80	100.80	.217E+05	24.2	0.83	14.99
0.93	100.93	.274E+05	34.9	0.96	13.07
1.05	101.05	.332E+05	47.3	1.07	11.69
1.18	101.18	.391E+05	61.3	1.17	10.64
1.30	101.30	.452E+05	76.7	1.27	9.81
1.43	101.43	.513E+05	93.6	1.37	9.14
1.55	101.55	.576E+05	111.9	1.46	8.58
1.67	101.67	.640E+05	131.6	1.54	8.11
1.80	101.80	.705E+05	152.6	1.62	7.70
1.92	101.92	.771E+05	175.1	1.70	7.34
2.05	102.05	.838E+05	198.8	1.78	7.03
2.17	102.17	.907E+05	224.0	1.85	6.75
2.30	102.30	.977E+05	250.4	1.92	6.50

<----- hydrograph -----> <-pipe / channel->

	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0064)	44.00	7.83	12.25	107.50	0.55	0.55
OUTFLOW: ID= 1 (0065)	44.00	3.94	12.77	107.49	0.46	0.40

```

-----
| ADD HYD ( 0067) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0065):  44.00   3.936   12.77   107.49
+ ID2= 2 ( 0066):  34.00   5.487   12.25   101.97
=====
ID = 3 ( 0067):  78.00   8.251   12.25   105.08

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0068) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0063):  887.39  48.268   13.12   94.23
+ ID2= 2 ( 0067):  78.00   8.251   12.25   105.08
=====
ID = 3 ( 0068):  965.39  54.008   13.03   95.11

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| READ STORM |
|           |
| Ptotal=136.80 mm |
-----
Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Comments: 100yr 24hr 15min SCS

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64

3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

```

-----
| CALIB          |
| STANDHYD ( 0069) |
| ID= 1 DT= 5.0 min |
-----

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```

Area      (ha)= 47.00
Total Imp(%)= 45.00  Dir. Conn.(%)= 29.00

```

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	21.15	25.85
Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	559.76	560.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

```

----- TRANSFORMED HYETOGRAPH -----

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46

1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64

5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 82.35
over (min) 10.00 45.00
Storage Coeff. (min)= 7.84 (ii) 40.34 (ii)
Unit Hyd. Tpeak (min)= 10.00 45.00
Unit Hyd. peak (cms)= 0.13 0.03

TOTALS
6.460 (iii)
12.25
100.81
136.80
0.74

PEAK FLOW (cms)= 5.22 3.34
TIME TO PEAK (hrs)= 12.25 12.83
RUNOFF VOLUME (mm)= 135.30 86.72
TOTAL RAINFALL (mm)= 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.63

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0070)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0068):	965.39	54.008	13.03	95.11
+ ID2= 2 (0069):	47.00	6.460	12.25	100.81
ID = 3 (0070):	1012.39	57.521	12.98	95.37

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(9666)	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
IN= 2---> OUT= 1				
DT= 5.0 min				
	0.0000	0.0000	7.7080	13.5310
	0.0920	0.7130	13.6390	15.7520
	0.2610	1.4470	21.2060	18.0400
	0.4790	2.2020	30.0800	20.3990
	0.7370	2.9780	35.7640	22.8190
	1.0300	3.7740	39.1160	25.3060
	1.7060	5.4640	42.7520	27.8590

2.4870	7.3110		47.1620	30.4780
3.3610	9.3030		51.9470	33.1640
4.3180	11.3790		56.9940	35.9160

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0070)	1012.385	57.521	12.98	95.37
OUTFLOW: ID= 1 (9666)	1012.385	39.304	14.08	89.05

PEAK FLOW REDUCTION [Qout/Qin](%)= 68.33
 TIME SHIFT OF PEAK FLOW (min)= 66.00
 MAXIMUM STORAGE USED (ha.m.)= 25.4387

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

 | ROUTE CHN(0072) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (9.0) ----->
 Distance Elevation Manning
 0.00 102.30 0.0500
 10.00 100.30 0.0500
 19.50 100.30 0.0500 /0.0350 Main Channel
 20.00 100.00 0.0350 Main Channel
 21.00 100.30 0.0350 /0.0500 Main Channel
 30.00 100.30 0.0500
 40.00 102.30 0.0500

<----- TRAVEL TIME TABLE ----->
 DEPTH ELEV VOLUME FLOW RATE VELOCITY TRAV.TIME
 (m) (m) (cu.m.) (cms) (m/s) (min)
 0.10 100.10 .125E+02 0.0 0.28 29.29
 0.20 100.20 .500E+02 0.0 0.45 18.45
 0.30 100.30 .113E+03 0.1 0.59 14.08
 0.43 100.43 .140E+04 1.3 0.45 18.37
 0.55 100.55 .277E+04 3.6 0.65 12.85
 0.68 100.68 .421E+04 6.9 0.81 10.23
 0.80 100.80 .574E+04 11.0 0.96 8.68
 0.93 100.93 .734E+04 16.0 1.09 7.65
 1.05 101.05 .902E+04 21.8 1.21 6.89
 1.18 101.18 .108E+05 28.4 1.32 6.32
 1.30 101.30 .126E+05 35.8 1.42 5.87
 1.43 101.43 .145E+05 44.1 1.52 5.49
 1.55 101.55 .165E+05 53.1 1.61 5.18
 1.67 101.67 .186E+05 63.0 1.69 4.92
 1.80 101.80 .207E+05 73.7 1.78 4.69
 1.92 101.92 .230E+05 85.3 1.86 4.49
 2.05 102.05 .253E+05 97.7 1.93 4.31
 2.17 102.17 .277E+05 111.0 2.01 4.15
 2.30 102.30 .301E+05 125.2 2.08 4.01

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (9666)	1012.39	39.30	14.08	89.05	1.35	1.46
OUTFLOW: ID= 1 (0072)	1012.39	39.26	14.17	88.85	1.35	1.46

READ STORM Ptotal=136.80 mm	Filename: C:\Users\p001130E\AppData Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba Comments: 100yr 24hr 15min SCS
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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB STANDHYD (0211) ID= 1 DT= 5.0 min	Area (ha)= 37.10 Total Imp(%)= 75.00 Dir. Conn.(%)= 60.00
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		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	27.82	9.27
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	497.33	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64

3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 233.16
over (min) 5.00 15.00
Storage Coeff. (min)= 6.70 (ii) 10.75 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.18 0.09

TOTALS

PEAK FLOW (cms)= 9.50 4.02 13.111 (iii)
TIME TO PEAK (hrs)= 12.25 12.33 12.25
RUNOFF VOLUME (mm)= 135.80 103.66 122.95
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.76 0.90

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)

- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| RESERVOIR( 0294) |
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
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OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.6300	1.6700
0.0040	0.7700	1.6700	2.4400
0.1480	1.2500	*****	2.4500

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0211)	37.100	13.111	12.25	122.95
OUTFLOW: ID= 1 (0294)	37.100	7.657	12.50	105.99

PEAK FLOW REDUCTION [Qout/Qin](%)= 58.40
 TIME SHIFT OF PEAK FLOW (min)= 15.00
 MAXIMUM STORAGE USED (ha.m.)= 2.4855

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| READ STORM      |
|                 |
| Ptotal=136.80 mm |
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Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64

4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB          |
| STANDHYD ( 0212) |
| ID= 1 DT= 5.0 min |
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Area      (ha)= 13.56
Total Imp(%)= 21.00  Dir. Conn.(%)= 21.00

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		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	2.85	10.71
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	0.25
Length	(m)=	300.67	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46

2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	125.03	
over (min)	5.00	20.00	
Storage Coeff. (min)=	4.95 (ii)	17.00 (ii)	
Unit Hyd. Tpeak (min)=	5.00	20.00	
Unit Hyd. peak (cms)=	0.22	0.06	
			TOTALS
PEAK FLOW (cms)=	1.28	1.99	2.661 (iii)
TIME TO PEAK (hrs)=	12.25	12.42	12.25
RUNOFF VOLUME (mm)=	135.80	90.26	99.82
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.66	0.73

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
 CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
 THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0237)				
1 + 2 = 3				
	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0212):	13.56	2.661	12.25	99.82
+ ID2= 2 (0294):	37.10	7.657	12.50	105.99
=====				
ID = 3 (0237):	50.66	9.757	12.50	104.34

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData
	ata\Local\Temp\
	f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64

2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

| CALIB |
| STANDHYD (0210) |
ID= 1 DT= 5.0 min

Area (ha)= 8.52
Total Imp(%)= 27.00 Dir. Conn.(%)= 27.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	2.30	6.22
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.95	0.95
Length	(m)=	238.33	549.00
Mannings n	=	0.013	0.400

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46

1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64

5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 40.27
over (min) 5.00 85.00
Storage Coeff. (min)= 3.55 (ii) 84.58 (ii)
Unit Hyd. Tpeak (min)= 5.00 85.00
Unit Hyd. peak (cms)= 0.26 0.01

TOTALS

PEAK FLOW (cms)= 1.06 0.34 1.139 (iii)
TIME TO PEAK (hrs)= 12.25 13.50 12.25
RUNOFF VOLUME (mm)= 135.80 79.85 94.95
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.58 0.69

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 73.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ROUTE CHN(0236) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00

<----- DATA FOR SECTION (2.0) ----->
Distance Elevation Manning
0.00 101.30 0.0300
3.00 100.70 0.0300
6.00 100.70 0.0300
13.00 100.40 0.0300
17.00 100.30 0.0300 /0.0130 Main Channel
18.00 100.00 0.0130 Main Channel
18.50 100.30 0.0130 /0.0300 Main Channel
22.00 100.40 0.0300
29.00 100.70 0.0300
32.00 100.70 0.0300
35.00 101.30 0.0300

<----- TRAVEL TIME TABLE ----->
DEPTH ELEV VOLUME FLOW RATE VELOCITY TRAV.TIME
(m) (m) (cu.m.) (cms) (m/s) (min)

0.06	100.06	.182E+02	0.0	0.47	72.36
0.12	100.12	.729E+02	0.0	0.74	45.58
0.18	100.18	.164E+03	0.1	0.97	34.79
0.24	100.24	.292E+03	0.2	1.18	28.72
0.30	100.30	.456E+03	0.3	1.36	24.75
0.37	100.37	.106E+04	0.6	1.21	27.90
0.44	100.44	.239E+04	1.2	1.05	32.24
0.51	100.51	.422E+04	2.2	1.04	32.38
0.59	100.59	.654E+04	3.5	1.08	31.25
0.66	100.66	.933E+04	5.2	1.13	29.81
0.73	100.73	.129E+05	7.1	1.11	30.53
0.80	100.80	.172E+05	10.4	1.22	27.65
0.87	100.87	.216E+05	14.3	1.34	25.23
0.94	100.94	.261E+05	18.7	1.45	23.23
1.01	101.01	.307E+05	23.7	1.56	21.58
1.09	101.09	.354E+05	29.2	1.67	20.20
1.16	101.16	.402E+05	35.2	1.77	19.03
1.23	101.23	.451E+05	41.7	1.87	18.03
1.30	101.30	.501E+05	48.7	1.97	17.16

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0210)	8.52	1.14	12.25	94.95	0.43	1.07
OUTFLOW: ID= 1 (0236)	8.52	0.55	12.33	94.93	0.35	1.25

ADD HYD (0238)					
1 + 2 = 3					
	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0236):	8.52	0.547	12.33	94.93	
+ ID2= 2 (0237):	50.66	9.757	12.50	104.34	
=====					
ID = 3 (0238):	59.18	10.259	12.50	102.98	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0074)					
1 + 2 = 3					
	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0238):	59.18	10.259	12.50	102.98	
+ ID2= 2 (0072):	1012.39	39.261	14.17	88.85	
=====					
ID = 3 (0074):	1071.57	41.134	14.12	89.32	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ADD HYD ( 0104) |
| 1 + 2 = 3 |
-----

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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0235):	457.23	20.669	13.95	94.10
+ ID2= 2 (0074):	1071.57	41.134	14.12	89.32
=====				
ID = 3 (0104):	1528.80	61.743	14.03	90.75

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ROUTE CHN( 0105) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
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<----- DATA FOR SECTION ( 16.0) ----->

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Distance	Elevation	Manning	
0.00	102.30	0.0500	
10.00	100.30	0.0500	
22.00	100.30	0.0500 /0.0350	Main Channel
22.50	100.00	0.0350	Main Channel
23.50	100.30	0.0350 /0.0500	Main Channel
35.00	100.30	0.0500	
45.00	102.30	0.0500	

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<----- TRAVEL TIME TABLE ----->

```

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.100E+02	0.0	0.16	40.58
0.20	100.20	.400E+02	0.0	0.26	25.56
0.30	100.30	.901E+02	0.1	0.34	19.53
0.43	100.43	.137E+04	0.9	0.25	26.16
0.55	100.55	.272E+04	2.5	0.37	17.98
0.68	100.68	.412E+04	4.8	0.47	14.21
0.80	100.80	.559E+04	7.8	0.56	12.01
0.93	100.93	.712E+04	11.3	0.63	10.54
1.05	101.05	.872E+04	15.3	0.70	9.48
1.18	101.18	.104E+05	19.9	0.77	8.67
1.30	101.30	.121E+05	25.1	0.83	8.03
1.43	101.43	.139E+05	30.8	0.89	7.51
1.55	101.55	.157E+05	37.0	0.94	7.08
1.67	101.67	.176E+05	43.8	0.99	6.71
1.80	101.80	.196E+05	51.1	1.04	6.39
1.92	101.92	.216E+05	59.0	1.09	6.11
2.05	102.05	.237E+05	67.4	1.14	5.86
2.17	102.17	.259E+05	76.4	1.18	5.64
2.30	102.30	.281E+05	85.9	1.22	5.45

<----- hydrograph -----> <-pipe / channel->

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0104)	1528.80	61.74	14.03	90.75	1.97	1.11
OUTFLOW: ID= 1 (0105)	1528.80	61.58	14.12	90.56	1.96	1.10

READ STORM
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | STANDHYD (0109) |
ID= 1 DT= 5.0 min

Area (ha)= 42.87
 Total Imp(%)= 56.00 Dir. Conn.(%)= 38.00

Surface Area	(ha)=	IMPERVIOUS	PERVIOUS (i)
		24.01	18.86

Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	534.60	560.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64

3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	104.67
over (min)	10.00	40.00
Storage Coeff. (min)=	7.62 (ii)	37.15 (ii)
Unit Hyd. Tpeak (min)=	10.00	40.00
Unit Hyd. peak (cms)=	0.13	0.03

TOTALS

PEAK FLOW (cms)=	6.29	2.94	7.488 (iii)
TIME TO PEAK (hrs)=	12.25	12.75	12.25
RUNOFF VOLUME (mm)=	135.30	89.51	106.91
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.65	0.78

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | READ STORM |
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | STANDHYD (0108) |
ID= 1 DT= 5.0 min

Area (ha)= 79.90
 Total Imp(%)= 56.00 Dir. Conn.(%)= 38.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	44.74	35.16
Dep. Storage (mm)=	1.50	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	729.84	757.00
Mannings n =	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64

3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 84.13
over (min) 10.00 50.00
Storage Coeff. (min)= 9.19 (ii) 47.80 (ii)
Unit Hyd. Tpeak (min)= 10.00 50.00
Unit Hyd. peak (cms)= 0.12 0.02

TOTALS
PEAK FLOW (cms)= 11.01 4.60 12.619 (iii)
TIME TO PEAK (hrs)= 12.25 12.92 12.25
RUNOFF VOLUME (mm)= 135.30 89.51 106.91
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.65 0.78

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0110) |
| 1 + 2 = 3 |
-----
          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0108):  79.90  12.619  12.25  106.91
+ ID2= 2 ( 0109):  42.87  7.488   12.25  106.91
=====
ID = 3 ( 0110):  122.77 20.107  12.25  106.91

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| RESERVOIR( 5011) |
| IN= 2---> OUT= 1 |
| DT= 5.0 min |
-----
          OVERFLOW IS OFF
          OUTFLOW      STORAGE      |      OUTFLOW      STORAGE
          (cms)      (ha.m.)      |      (cms)      (ha.m.)
          0.0000      0.0001      |      3.0600      4.3000
          0.4100      2.3000      |      3.9700      4.8000
          1.2500      3.1000      |      4.9100      5.3000
          1.9900      3.6000      |      10.0000     5.4000

          AREA      QPEAK      TPEAK      R.V.
          (ha)      (cms)      (hrs)      (mm)
INFLOW : ID= 2 ( 0110)  122.770  20.107  12.25  106.91
OUTFLOW: ID= 1 ( 5011)  122.770   8.898  13.00  106.90

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          PEAK FLOW REDUCTION [Qout/Qin](%)= 44.25
          TIME SHIFT OF PEAK FLOW (min)= 45.00
          MAXIMUM STORAGE USED (ha.m.)= 5.3803

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-----
| ROUTE CHN( 0112) |
| IN= 2---> OUT= 1 |
-----
          Routing time step (min)'= 1.00

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```

<----- DATA FOR SECTION ( 17.0) ----->
Distance      Elevation      Manning
0.00          190.50         0.0300
9.00          187.50         0.0300 /0.0130 Main Channel
9.10          187.00         0.0130      Main Channel
10.90         187.00         0.0130      Main Channel
11.00         187.50         0.0130 /0.0300 Main Channel
20.00         190.50         0.0300

```

```

<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)        (m)        (cu.m.)      (cms)          (m/s)         (min)
0.17      187.17     .917E+02     0.2            0.81          6.14
0.33      187.33     .187E+03     0.7            1.19          4.22
0.50      187.50     .285E+03     1.4            1.44          3.47
0.69      187.69     .429E+03     2.4            1.69          2.96

```

0.88	187.88	.637E+03	3.8	1.78	2.80
1.06	188.06	.907E+03	5.5	1.83	2.73
1.25	188.25	.124E+04	7.7	1.87	2.67
1.44	188.44	.164E+04	10.4	1.91	2.62
1.63	188.63	.210E+04	13.6	1.94	2.57
1.81	188.81	.262E+04	17.3	1.98	2.52
2.00	189.00	.321E+04	21.7	2.03	2.47
2.19	189.19	.386E+04	26.6	2.07	2.41
2.38	189.38	.457E+04	32.3	2.12	2.36
2.56	189.56	.535E+04	38.6	2.16	2.31
2.75	189.75	.619E+04	45.7	2.21	2.26
2.94	189.94	.710E+04	53.5	2.26	2.21
3.13	190.13	.806E+04	62.1	2.31	2.16
3.31	190.31	.909E+04	71.6	2.36	2.12
3.50	190.50	.102E+05	81.9	2.41	2.07

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (5011)	122.77	8.90	13.00	106.90	1.33	1.89
OUTFLOW: ID= 1 (0112)	122.77	8.43	13.05	94.94	1.30	1.88

**** WARNING : THE HYD WAS CUT TO 2000 POINTS

ADD HYD (0107)					
1 + 2 = 3					
	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0105):	1528.80	61.578	14.12	90.56	
+ ID2= 2 (0112):	122.77	8.433	13.05	94.94	
=====					
ID = 3 (0107):	1651.57	66.347	14.08	90.88	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ROUTE CHN(0114)	
IN= 2---> OUT= 1	
Routing time step (min)'= 1.00	

<----- DATA FOR SECTION (18.0) ----->				
Distance	Elevation	Manning		
0.00	102.30	0.0500		
10.00	100.30	0.0500		
66.75	100.30	0.0500 /0.0350	Main Channel	
67.50	100.00	0.0350	Main Channel	
68.25	100.30	0.0350 /0.0500	Main Channel	
125.00	100.30	0.0500		
135.00	102.30	0.0500		

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.250E+02	0.0	0.17	100.97
0.20	100.20	.100E+03	0.0	0.26	63.61
0.30	100.30	.226E+03	0.1	0.34	48.77
0.43	100.43	.147E+05	3.4	0.23	72.16
0.55	100.55	.293E+05	10.5	0.36	46.47
0.68	100.68	.441E+05	20.5	0.47	35.77
0.80	100.80	.590E+05	33.1	0.56	29.70
0.93	100.93	.741E+05	48.0	0.65	25.72
1.05	101.05	.893E+05	65.1	0.73	22.87
1.18	101.18	.105E+06	84.2	0.80	20.72
1.30	101.30	.120E+06	105.3	0.88	19.03
1.43	101.43	.136E+06	128.3	0.94	17.65
1.55	101.55	.152E+06	153.2	1.01	16.51
1.67	101.67	.168E+06	179.8	1.07	15.55
1.80	101.80	.184E+06	208.3	1.13	14.72
1.92	101.92	.200E+06	238.4	1.19	14.00
2.05	102.05	.217E+06	270.2	1.25	13.37
2.17	102.17	.233E+06	303.7	1.30	12.81
2.30	102.30	.250E+06	338.8	1.35	12.31

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0107)	1651.57	66.35	14.08	90.88	1.06	0.73
OUTFLOW: ID= 1 (0114)	1651.57	64.79	14.40	89.99	1.05	0.73

 | READ STORM |
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64

3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB					
NASHYD (0218)		Area (ha)=	2.52	Curve Number (CN)=	80.0
ID= 1 DT= 5.0 min		Ia (mm)=	5.00	# of Linear Res.(N)=	3.00
		U.H. Tp(hrs)=	0.81		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46

1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.119

PEAK FLOW (cms)= 0.216 (i)
TIME TO PEAK (hrs)= 13.000
RUNOFF VOLUME (mm)= 88.945
TOTAL RAINFALL (mm)= 136.800
RUNOFF COEFFICIENT = 0.650

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| READ STORM | Filename: C:\Users\p001130E\AppData
| | ata\Local\Temp\
| | f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
| Ptotal=136.80 mm | Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB

| STANDHYD (0215) | Area (ha)= 1.84
 | ID= 1 DT= 5.0 min | Total Imp(%)= 80.00 Dir. Conn.(%)= 64.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.47	0.37
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	110.75	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64

3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	267.93
over (min)	5.00	10.00
Storage Coeff. (min)=	2.72 (ii)	6.33 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.29	0.15

			TOTALS
PEAK FLOW (cms)=	0.55	0.23	0.780 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	135.80	106.57	125.27
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.78	0.92

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| ADD HYD ( 0239)|
| 1 + 2 = 3 |
-----

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	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0215):	1.84	0.780	12.25	125.27
+ ID2= 2 (0218):	2.52	0.216	13.00	88.95
=====				
ID = 3 (0239):	4.36	0.859	12.25	104.28

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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-----
| ROUTE CHN( 0240)|
| IN= 2---> OUT= 1 | Routing time step (min)'= 5.00
-----

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<----- DATA FOR SECTION ( 2.0) ----->

```

Distance	Elevation	Manning	
0.00	101.30	0.0300	
3.00	100.70	0.0300	
6.00	100.70	0.0300	
13.00	100.40	0.0300	
17.00	100.30	0.0300 /0.0130	Main Channel
18.00	100.00	0.0130	Main Channel
18.50	100.30	0.0130 /0.0300	Main Channel
22.00	100.40	0.0300	
29.00	100.70	0.0300	
32.00	100.70	0.0300	
35.00	101.30	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.06	100.06	.112E+02	0.0	0.28	73.92
0.12	100.12	.449E+02	0.0	0.45	46.56
0.18	100.18	.101E+03	0.0	0.59	35.54
0.24	100.24	.180E+03	0.1	0.71	29.33
0.30	100.30	.281E+03	0.2	0.82	25.28
0.37	100.37	.653E+03	0.4	0.73	28.50
0.44	100.44	.147E+04	0.7	0.63	32.94
0.51	100.51	.260E+04	1.3	0.63	33.08
0.59	100.59	.403E+04	2.1	0.65	31.93

0.66	100.66	.575E+04	3.1	0.68	30.45
0.73	100.73	.797E+04	4.3	0.67	31.18
0.80	100.80	.106E+05	6.3	0.74	28.25
0.87	100.87	.133E+05	8.6	0.81	25.77
0.94	100.94	.161E+05	11.3	0.88	23.73
1.01	101.01	.189E+05	14.3	0.94	22.04
1.09	101.09	.218E+05	17.6	1.01	20.64
1.16	101.16	.248E+05	21.2	1.07	19.44
1.23	101.23	.278E+05	25.2	1.13	18.42
1.30	101.30	.309E+05	29.4	1.19	17.53

		<---- hydrograph ---->				<-pipe / channel->	
		AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
		(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0239)	4.36	0.86	12.25	104.28	0.46	0.63
OUTFLOW:	ID= 1 (0240)	4.36	0.39	12.42	104.20	0.37	0.73

```

-----
| READ STORM |
|            |
| Ptotal=136.80 mm |
|            |
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Filename: C:\Users\p001130E\AppData
         ata\Local\Temp\
         f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Comments: 100yr 24hr 15min SCS

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		

6.00	2.19	12.25	167.44	18.50	2.46
6.25	2.19	12.50	19.70	18.75	2.46

```

-----
| CALIB |
| NASHYD ( 0216) | Area (ha)= 10.76 Curve Number (CN)= 82.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
|-----|
| U.H. Tp(hrs)= 1.43

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64

2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.287

PEAK FLOW (cms)= 0.628 (i)

TIME TO PEAK (hrs)= 13.667

RUNOFF VOLUME (mm)= 92.619

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.677

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0241)				
1 + 2 = 3				
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0216):	10.76	0.628	13.67	92.62
+ ID2= 2 (0240):	4.36	0.395	12.42	104.20
=====				
ID = 3 (0241):	15.12	0.900	13.42	95.96

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB

NASHYD (0219)	Area (ha)=	1.37	Curve Number (CN)=	80.0
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)=	3.00
-----	U.H. Tp(hrs)=	0.23		

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64

3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.228

PEAK FLOW (cms)= 0.293 (i)

TIME TO PEAK (hrs)= 12.333

RUNOFF VOLUME (mm)= 88.848

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.649

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData
	ata\Local\Temp\
	f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| STANDHYD ( 0220) |
| ID= 1 DT= 5.0 min |
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Area (ha)= 3.24
Total Imp(%)= 75.00 Dir. Conn.(%)= 60.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	2.43	0.81
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	146.97	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46

0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64

4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 233.16
over (min) 5.00 10.00
Storage Coeff. (min)= 3.22 (ii) 7.27 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.27 0.14

TOTALS

PEAK FLOW (cms)= 0.90 0.43 1.327 (iii)
TIME TO PEAK (hrs)= 12.25 12.25 12.25
RUNOFF VOLUME (mm)= 135.80 103.66 122.94
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.76 0.90

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0295)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min				
	OUTFLOW	STORAGE	OUTFLOW	STORAGE
	(cms)	(ha.m.)	(cms)	(ha.m.)
	0.0000	0.0000	0.0550	0.1500
	0.0003	0.0700	0.1500	0.2100
	0.0130	0.1100	*****	0.2200
	AREA	QPEAK	TPEAK	R.V.

	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0220)	3.240	1.327	12.25	122.94
OUTFLOW: ID= 1 (0295)	3.240	0.933	12.33	104.59

PEAK FLOW REDUCTION [Qout/Qin](%)= 70.30
 TIME SHIFT OF PEAK FLOW (min)= 5.00
 MAXIMUM STORAGE USED (ha.m.)= 0.2219

```
-----
| ADD HYD ( 0242) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0219):    1.37    0.293    12.33    88.85
+ ID2= 2 ( 0295):    3.24    0.933    12.33    104.59
=====
ID = 3 ( 0242):    4.61    1.226    12.33    99.91
-----
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
-----
| ADD HYD ( 0243) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0241):   15.12    0.900    13.42    95.96
+ ID2= 2 ( 0242):    4.61    1.226    12.33    99.91
=====
ID = 3 ( 0243):   19.73    1.800    12.33    96.88
-----
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
-----
| READ STORM |
|           |
| Ptotal=136.80 mm |
-----
Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Comments: 100yr 24hr 15min SCS
```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64

2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB			
NASHYD (0217)	Area (ha)=	36.62	Curve Number (CN)= 80.0
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	1.11	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46

1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64

6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 1.260

PEAK FLOW (cms)= 2.482 (i)
 TIME TO PEAK (hrs)= 13.333
 RUNOFF VOLUME (mm)= 88.946
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.650

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0244)					
1 + 2 = 3					
	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0217):	36.62	2.482	13.33	88.95	
+ ID2= 2 (0243):	19.73	1.800	12.33	96.88	
=====					
ID = 3 (0244):	56.35	3.550	13.33	91.73	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64

4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0221) | Area (ha)= 2.45 Curve Number (CN)= 80.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
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| U.H. Tp(hrs)= 0.65

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64

2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.144

PEAK FLOW (cms)= 0.247 (i)

TIME TO PEAK (hrs)= 12.833

RUNOFF VOLUME (mm)= 88.944
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.650

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0245)				
1 + 2 = 3				
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0221):	2.45	0.247	12.83	88.94
+ ID2= 2 (0244):	56.35	3.550	13.33	91.73
=====				
ID = 3 (0245):	58.80	3.742	13.25	91.61

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		

6.00	2.19	12.25	167.44	18.50	2.46
6.25	2.19	12.50	19.70	18.75	2.46

 | CALIB
 | STANDHYD (0222)
 | ID= 1 DT= 5.0 min |

Area (ha)= 17.81
 Total Imp(%)= 25.00 Dir. Conn.(%)= 25.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	4.45	13.36
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.61	0.61
Length	(m)=	344.58	40.00
Mannings n	=	0.013	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64

2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	146.08
over (min)	5.00	15.00
Storage Coeff. (min)=	5.07 (ii)	12.66 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.21	0.08

				TOTALS
PEAK FLOW	(cms)=	1.99	3.41	5.009 (iii)
TIME TO PEAK	(hrs)=	12.25	12.33	12.25
RUNOFF VOLUME	(mm)=	135.80	103.63	111.67
TOTAL RAINFALL	(mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT	=	0.99	0.76	0.82

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 86.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0246) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0222):  17.81  5.009   12.25  111.67
+ ID2= 2 ( 0245):  58.80  3.742   13.25   91.61
=====
ID = 3 ( 0246):  76.61  7.159   12.33   96.27

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| READ STORM |
|           |
| Ptotal=136.80 mm |
-----
Filename: C:\Users\p001130E\AppData
         ata\Local\Temp\
         f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Comments: 100yr 24hr 15min SCS

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64

4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

| CALIB |
| STANDHYD (0223) |
ID= 1 DT= 5.0 min

Area (ha)= 2.09
Total Imp(%)= 75.00 Dir. Conn.(%)= 60.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	1.57	0.52
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	118.04	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46

1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64

6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	233.16
over (min)	5.00	10.00
Storage Coeff. (min)=	2.83 (ii)	6.87 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.28	0.14

TOTALS

PEAK FLOW (cms)=	0.58	0.28	0.863 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	135.80	103.66	122.94
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.76	0.90

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0247)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0223):	2.09	0.863	12.25	122.94
+ ID2= 2 (0246):	76.61	7.159	12.33	96.27
=====				
ID = 3 (0247):	78.70	7.567	12.33	96.98

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46

1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB	
STANDHYD (0224)	Area (ha)= 5.94
ID= 1 DT= 5.0 min	Total Imp(%)= 23.00 Dir. Conn.(%)= 23.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.37	4.57
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.65	0.65
Length (m)=	199.00	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46

1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64

5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 129.63
over (min) 5.00 15.00
Storage Coeff. (min)= 3.57 (ii) 12.49 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.26 0.08

TOTALS

PEAK FLOW (cms)= 0.63 1.02 1.525 (iii)
TIME TO PEAK (hrs)= 12.25 12.33 12.25
RUNOFF VOLUME (mm)= 135.80 90.26 100.73
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.66 0.74

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0248) |
| 1 + 2 = 3 |
-----

```

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0224):	5.94	1.525	12.25	100.73
+ ID2= 2 (0247):	78.70	7.567	12.33	96.98
=====				
ID = 3 (0248):	84.64	9.080	12.25	97.24

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0116) |
| 1 + 2 = 3 |
-----

```

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0114):	1651.57	64.789	14.40	89.99


```

+ ID2= 2 ( 0248):    84.64   9.080   12.25   97.24
=====
ID = 3 ( 0116):  1736.21  67.751   14.28   90.33

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| READ STORM |      Filename: C:\Users\p001130E\AppData
|            |      ata\Local\Temp\
|            |      f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
| Ptotal=136.80 mm |      Comments: 100yr 24hr 15min SCS
-----

```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

```

-----
| CALIB |
| STANDHYD ( 0117) |      Area (ha)= 75.00
| ID= 1 DT= 5.0 min |      Total Imp(%)= 56.00   Dir. Conn.(%)= 38.00
-----

```

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	42.00	33.00
Dep. Storage (mm)=	1.50	1.50

Average Slope (%)= 0.50 2.00
 Length (m)= 739.00 739.00
 Mannings n = 0.015 0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64

3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)= 167.44 84.13
over (min) 10.00 50.00
Storage Coeff. (min)= 9.26 (ii) 47.32 (ii)
Unit Hyd. Tpeak (min)= 10.00 50.00
Unit Hyd. peak (cms)= 0.12 0.02

TOTALS
PEAK FLOW (cms)= 10.31 4.34 11.825 (iii)
TIME TO PEAK (hrs)= 12.25 12.92 12.25
RUNOFF VOLUME (mm)= 135.30 89.51 106.91
TOTAL RAINFALL (mm)= 136.80 136.80 136.80
RUNOFF COEFFICIENT = 0.99 0.65 0.78

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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-----
| RESERVOIR( 5012) |
| IN= 2---> OUT= 1 |
| DT= 5.0 min      |
-----

```

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0001	1.9600	2.7000
0.2600	1.5000	2.5300	3.0000
0.8000	2.0000	3.1400	3.4000
1.2700	2.3000	10.0000	3.5000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0117)	75.000	11.825	12.25	106.91
OUTFLOW: ID= 1 (5012)	75.000	4.584	13.25	106.89

PEAK FLOW REDUCTION [Qout/Qin](%)= 38.77
 TIME SHIFT OF PEAK FLOW (min)= 60.00
 MAXIMUM STORAGE USED (ha.m.)= 3.4232

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-----
| ROUTE CHN( 0119) |
| IN= 2---> OUT= 1 |
-----

```

Routing time step (min)'= 1.00

<----- DATA FOR SECTION (19.0) ----->

Distance	Elevation	Manning	
0.00	190.50	0.0300	
9.00	187.50	0.0300 /0.0130	Main Channel
9.10	187.00	0.0130	Main Channel
10.90	187.00	0.0130	Main Channel
11.00	187.50	0.0130 /0.0300	Main Channel
20.00	190.50	0.0300	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.17	187.17	.122E+03	0.2	0.81	8.19
0.33	187.33	.249E+03	0.7	1.19	5.62
0.50	187.50	.380E+03	1.4	1.44	4.62
0.69	187.69	.572E+03	2.4	1.69	3.95
0.88	187.88	.849E+03	3.8	1.78	3.74
1.06	188.06	.121E+04	5.5	1.83	3.63
1.25	188.25	.166E+04	7.7	1.87	3.56
1.44	188.44	.218E+04	10.4	1.91	3.50
1.63	188.63	.280E+04	13.6	1.94	3.43
1.81	188.81	.350E+04	17.3	1.98	3.36
2.00	189.00	.428E+04	21.7	2.03	3.29
2.19	189.19	.515E+04	26.6	2.07	3.22
2.38	189.38	.610E+04	32.3	2.12	3.15

2.56	189.56	.714E+04	38.6	2.16	3.08
2.75	189.75	.826E+04	45.7	2.21	3.01
2.94	189.94	.946E+04	53.5	2.26	2.95
3.13	190.13	.107E+05	62.1	2.31	2.88
3.31	190.31	.121E+05	71.6	2.36	2.82
3.50	190.50	.136E+05	81.9	2.41	2.76

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (5012)	75.00	4.58	13.25	106.89	0.96	1.81
OUTFLOW: ID= 1 (0119)	75.00	4.31	13.30	94.02	0.93	1.80

**** WARNING : THE HYD WAS CUT TO 2000 POINTS

ADD HYD (0120)					
1 + 2 = 3					
	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0116):	1736.21	67.751	14.28	90.33	
+ ID2= 2 (0119):	75.00	4.312	13.30	94.02	
=====					
ID = 3 (0120):	1811.21	70.752	14.27	90.48	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	
Ptotal=136.80 mm	

Filename: C:\Users\p001130E\AppData	
ata\Local\Temp\	
f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba	
Comments: 100yr 24hr 15min SCS	

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64

3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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-----
| CALIB |
| STANDHYD ( 0121) |
| ID= 1 DT= 5.0 min |
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Area (ha)= 27.00
Total Imp(%)= 43.00 Dir. Conn.(%)= 43.00

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		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	11.61	15.39
Dep. Storage	(mm)=	1.50	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	424.26	424.00
Mannings n	=	0.015	0.200

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

```

----- TRANSFORMED HYETOGRAPH -----

```

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46

1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64

5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	57.15	
over (min)	5.00	40.00	
Storage Coeff. (min)=	6.64 (ii)	38.47 (ii)	
Unit Hyd. Tpeak (min)=	5.00	40.00	
Unit Hyd. peak (cms)=	0.18	0.03	
			TOTALS
PEAK FLOW (cms)=	4.96	1.45	5.535 (iii)
TIME TO PEAK (hrs)=	12.25	12.75	12.25
RUNOFF VOLUME (mm)=	135.30	78.20	102.76
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.57	0.75

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 72.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

-----
| ADD HYD ( 0123) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0120): 1811.21  70.752   14.27   90.48
+ ID2= 2 ( 0121):  27.00   5.535    12.25  102.76
=====
ID = 3 ( 0123): 1838.21  71.335   14.25   90.66

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0134) |
| 1 + 2 = 3 |
-----
          AREA    QPEAK    TPEAK    R.V.
          (ha)    (cms)    (hrs)    (mm)
ID1= 1 ( 0123): 1838.21  71.335   14.25   90.66
+ ID2= 2 ( 0133):  206.50  10.977   13.48   66.94
=====
ID = 3 ( 0134): 2044.71  80.062   14.12   88.26

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0135) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

```


<----- DATA FOR SECTION (23.0) ----->

Distance	Elevation	Manning	
0.00	102.30	0.0500	
10.00	100.30	0.0500	
24.00	100.30	0.0500 /0.0350	Main Channel
25.00	100.00	0.0350	Main Channel
25.50	100.30	0.0350 /0.0500	Main Channel
40.00	100.30	0.0500	
50.00	102.30	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.10	100.10	.750E+01	0.0	0.12	43.04
0.20	100.20	.300E+02	0.0	0.18	27.12
0.30	100.30	.676E+02	0.1	0.24	20.72
0.43	100.43	.122E+04	0.7	0.18	28.28
0.55	100.55	.241E+04	2.1	0.26	19.20
0.68	100.68	.365E+04	4.0	0.33	15.10
0.80	100.80	.494E+04	6.5	0.39	12.71
0.93	100.93	.628E+04	9.4	0.45	11.13
1.05	101.05	.766E+04	12.8	0.50	9.99
1.18	101.18	.909E+04	16.6	0.55	9.12
1.30	101.30	.106E+05	20.9	0.59	8.44
1.43	101.43	.121E+05	25.6	0.63	7.88
1.55	101.55	.137E+05	30.7	0.67	7.42
1.67	101.67	.153E+05	36.2	0.71	7.03
1.80	101.80	.169E+05	42.2	0.75	6.69
1.92	101.92	.187E+05	48.6	0.78	6.39
2.05	102.05	.204E+05	55.5	0.82	6.13
2.17	102.17	.222E+05	62.8	0.85	5.90
2.30	102.30	.241E+05	70.5	0.88	5.69

**** WARNING: TRAVEL TIME TABLE EXCEEDED

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0134)	2044.71	80.06	14.12	88.26	2.30	0.88
OUTFLOW: ID= 1 (0135)	2044.71	79.91	14.20	88.09	2.30	0.88

| ADD HYD (0137) |
| 1 + 2 = 3 |

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0135):	2044.71	79.905	14.20	88.09
+ ID2= 2 (0136):	20.00	1.794	12.92	75.34

ID = 3 (0137): 2064.71 80.428 14.18 87.97

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

 | ROUTE CHN(0138) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 1.00

<----- DATA FOR SECTION (24.0) ----->

Distance	Elevation	Manning	
0.00	192.00	0.0500	
150.00	190.00	0.0500	
170.00	187.50	0.0500	
190.00	186.00	0.0500	
192.00	185.60	0.0500 / 0.0350	Main Channel
194.00	185.60	0.0350 / 0.0500	Main Channel
196.00	186.00	0.0500	
215.00	187.50	0.0500	
285.00	190.00	0.0500	
300.00	190.50	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.26	185.86	.127E+04	0.7	0.86	29.24
0.52	186.12	.370E+04	2.7	1.11	22.54
0.77	186.37	.849E+04	7.0	1.24	20.18
1.03	186.63	.159E+05	14.7	1.39	18.00
1.29	186.89	.258E+05	26.6	1.55	16.16
1.55	187.15	.384E+05	43.7	1.71	14.66
1.81	187.41	.536E+05	66.5	1.86	13.43
2.06	187.66	.715E+05	94.6	1.98	12.60
2.32	187.92	.930E+05	130.4	2.10	11.88
2.58	188.18	.118E+06	175.5	2.23	11.21
2.84	188.44	.147E+06	230.6	2.36	10.61
3.09	188.69	.179E+06	296.4	2.48	10.06
3.35	188.95	.215E+06	373.8	2.61	9.58
3.61	189.21	.254E+06	463.6	2.74	9.14
3.87	189.47	.297E+06	566.5	2.86	8.75
4.13	189.73	.344E+06	683.3	2.98	8.39
4.38	189.98	.394E+06	814.7	3.10	8.06
4.64	190.24	.451E+06	898.4	2.99	8.37
4.90	190.50	.518E+06	1025.6	2.97	8.42

<----- hydrograph ----->

<-pipe / channel->

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0137)	2064.71	80.43	14.18	87.97	1.93	1.92
OUTFLOW: ID= 1 (0138)	2064.71	79.70	14.38	87.72	1.93	1.92

```

-----
| ADD HYD ( 0140) |
| 1 + 2 = 3 |
-----
                AREA      QPEAK      TPEAK      R.V.
                (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0138): 2064.71  79.704    14.38     87.72
+ ID2= 2 ( 0139):  58.00   4.551     13.08     75.34
=====
ID = 3 ( 0140): 2122.71  81.396    14.32     87.39

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ADD HYD ( 0142) |
| 1 + 2 = 3 |
-----
                AREA      QPEAK      TPEAK      R.V.
                (ha)      (cms)      (hrs)      (mm)
ID1= 1 ( 0140): 2122.71  81.396    14.32     87.39
+ ID2= 2 ( 0141): 116.00   5.111     13.50     57.69
=====
ID = 3 ( 0142): 2238.71  85.378    14.30     85.85

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

-----
| ROUTE CHN( 0143) |
| IN= 2---> OUT= 1 | Routing time step (min)'= 1.00
-----

```

```

<----- DATA FOR SECTION ( 25.0) ----->
Distance      Elevation      Manning
   0.00        190.00        0.0500
   55.00        187.50        0.0500
  100.00        186.00        0.0500
  102.00        185.40        0.0500 /0.0350  Main Channel
  104.00        185.40        0.0350 /0.0500  Main Channel
  106.00        186.00        0.0500
  156.00        187.50        0.0500
  200.00        188.00        0.0500

```

```

<----- TRAVEL TIME TABLE ----->
DEPTH      ELEV      VOLUME      FLOW RATE      VELOCITY      TRAV.TIME
(m)        (m)        (cu.m.)      (cms)          (m/s)         (min)
0.14      185.54      .235E+03      0.1            0.25          45.97
0.27      185.67      .558E+03      0.3            0.37          31.53
0.41      185.81      .968E+03      0.6            0.45          25.73
0.55      185.95      .147E+04      1.1            0.52          22.42
0.68      186.08      .219E+04      1.6            0.50          23.34
0.82      186.22      .369E+04      2.5            0.47          24.93
0.96      186.36      .602E+04      4.0            0.46          25.27
1.09      186.49      .918E+04      6.2            0.47          24.63

```

1.23	186.63	.132E+05	9.3	0.50	23.52
1.37	186.77	.180E+05	13.5	0.52	22.27
1.51	186.91	.237E+05	18.7	0.55	21.04
1.64	187.04	.301E+05	25.3	0.59	19.88
1.78	187.18	.374E+05	33.1	0.62	18.83
1.92	187.32	.456E+05	42.5	0.65	17.88
2.05	187.45	.546E+05	53.4	0.69	17.03
2.19	187.59	.645E+05	64.8	0.70	16.59
2.33	187.73	.758E+05	77.9	0.72	16.22
2.46	187.86	.886E+05	93.6	0.74	15.78
2.60	188.00	.103E+06	112.0	0.76	15.31

		<---- hydrograph ---->			<-pipe / channel->	
	AREA	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
	(ha)	(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW : ID= 2 (0142)	2238.71	85.38	14.30	85.85	2.39	0.73
OUTFLOW: ID= 1 (0143)	2238.71	83.29	14.55	85.58	2.37	0.73

ADD HYD (0145)					
1 + 2 = 3					
	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0143):	2238.71	83.294	14.55	85.58	
+ ID2= 2 (0144):	28.00	4.110	12.50	75.36	
=====					
ID = 3 (0145):	2266.71	83.621	14.53	85.45	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ROUTE CHN(0146)	
IN= 2---> OUT= 1	
Routing time step (min)'	= 1.00

<----- DATA FOR SECTION (26.0) ----->				
Distance	Elevation	Manning		
0.00	190.00	0.0500		
100.00	187.50	0.0500		
170.00	185.00	0.0500		
210.00	183.00	0.0500		
212.00	182.60	0.0500 /0.0350	Main Channel	
214.00	182.60	0.0350 /0.0500	Main Channel	
216.00	183.00	0.0500		
256.00	185.00	0.0500		
276.00	187.50	0.0500		
350.00	189.50	0.0500		

<----- TRAVEL TIME TABLE ----->					
DEPTH	ELEV	VOLUME	FLOW RATE	VELOCITY	TRAV.TIME

(m)	(m)	(cu.m.)	(cms)	(m/s)	(min)
0.36	182.96	.305E+04	0.6	0.43	86.19
0.73	183.33	.125E+05	2.7	0.47	77.96
1.09	183.69	.335E+05	8.4	0.55	66.33
1.45	184.05	.662E+05	19.5	0.65	56.52
1.82	184.42	.110E+06	37.4	0.74	49.26
2.18	184.78	.166E+06	63.2	0.84	43.81
2.54	185.14	.234E+06	98.7	0.93	39.44
2.91	185.51	.312E+06	145.2	1.02	35.77
3.27	185.87	.400E+06	202.9	1.12	32.86
3.63	186.23	.499E+06	272.7	1.20	30.50
3.99	186.59	.608E+06	355.2	1.28	28.55
4.36	186.96	.728E+06	451.3	1.36	26.89
4.72	187.32	.858E+06	561.8	1.44	25.47
5.08	187.68	.100E+07	668.9	1.47	24.93
5.45	188.05	.116E+07	781.8	1.48	24.81
5.81	188.41	.135E+07	920.9	1.50	24.42
6.17	188.77	.156E+07	1086.6	1.54	23.88
6.54	189.14	.179E+07	1280.0	1.58	23.27
6.90	189.50	.204E+07	1502.3	1.62	22.63

		AREA	<----- hydrograph ----->			<-pipe / channel->	
		(ha)	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
			(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0145)	2266.71	83.62	14.53	85.45	2.39	0.89
OUTFLOW:	ID= 1 (0146)	2266.71	76.10	15.17	84.57	2.31	0.87

ADD HYD (0148)						
1 + 2 = 3						
		AREA	QPEAK	TPEAK	R.V.	
		(ha)	(cms)	(hrs)	(mm)	
	ID1= 1 (0146):	2266.71	76.097	15.17	84.57	
	+ ID2= 2 (0147):	218.00	11.485	13.75	75.34	
=====						
	ID = 3 (0148):	2484.71	83.200	15.03	83.76	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ROUTE CHN(0149)	
IN= 2---> OUT= 1	

	Routing time step (min)'= 1.00

<----- DATA FOR SECTION (27.0) ----->		
Distance	Elevation	Manning
0.00	190.00	0.0500
140.00	187.50	0.0500
230.00	185.00	0.0500
300.00	183.00	0.0500

302.00	182.60	0.0500 /0.0350	Main Channel
304.00	182.60	0.0350 /0.0500	Main Channel
306.00	183.00	0.0500	
320.00	185.00	0.0500	
345.00	187.50	0.0500	
450.00	189.50	0.0500	

<----- TRAVEL TIME TABLE ----->

DEPTH (m)	ELEV (m)	VOLUME (cu.m.)	FLOW RATE (cms)	VELOCITY (m/s)	TRAV.TIME (min)
0.36	182.96	.381E+04	1.0	0.73	62.86
0.73	183.33	.159E+05	4.7	0.81	56.86
1.09	183.69	.432E+05	14.8	0.94	48.61
1.45	184.05	.858E+05	34.5	1.11	41.44
1.82	184.42	.144E+06	66.3	1.27	36.10
2.18	184.78	.217E+06	112.5	1.43	32.09
2.54	185.14	.305E+06	174.6	1.58	29.09
2.91	185.51	.410E+06	255.0	1.71	26.77
3.27	185.87	.531E+06	356.7	1.85	24.82
3.63	186.23	.669E+06	481.7	1.98	23.16
3.99	186.59	.824E+06	632.0	2.11	21.73
4.36	186.96	.995E+06	809.4	2.24	20.50
4.72	187.32	.118E+07	1015.9	2.36	19.42
5.08	187.68	.139E+07	1219.0	2.41	19.02
5.45	188.05	.164E+07	1444.2	2.43	18.88
5.81	188.41	.192E+07	1726.8	2.47	18.53
6.17	188.77	.224E+07	2067.1	2.53	18.08
6.54	189.14	.261E+07	2467.6	2.60	17.60
6.90	189.50	.301E+07	2932.0	2.68	17.09

		<---- hydrograph ---->			<-pipe / channel->	
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	MAX DEPTH (m)	MAX VEL (m/s)
INFLOW : ID= 2 (0148)	2484.71	83.20	15.03	83.76	1.95	1.32
OUTFLOW: ID= 1 (0149)	2484.71	79.03	15.57	83.09	1.91	1.31

ADD HYD (0151)					
1 + 2 = 3					
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)	
ID1= 1 (0149):	2484.71	79.030	15.57	83.09	
+ ID2= 2 (0150):	125.00	9.584	13.08	75.34	
=====					
ID = 3 (0151):	2609.71	80.527	15.52	82.72	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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| READ STORM |
| Ptotal=136.80 mm |
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Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Comments: 100yr 24hr 15min SCS

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

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| CALIB |
| NASHYD ( 0300) |
| ID= 1 DT= 5.0 min |
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Area (ha)= 5.92 Curve Number (CN)= 74.0
Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.37

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46

0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64

4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.611

PEAK FLOW (cms)= 0.789 (i)
 TIME TO PEAK (hrs)= 12.500
 RUNOFF VOLUME (mm)= 78.574
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.574

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | ROUTE CHN(0306) |
 | IN= 2---> OUT= 1 | Routing time step (min)'= 5.00

<----- DATA FOR SECTION (2.0) ----->

Distance	Elevation	Manning	
0.00	101.30	0.0300	
3.00	100.70	0.0300	
6.00	100.70	0.0300	
13.00	100.40	0.0300	
17.00	100.30	0.0300 /0.0130	Main Channel
18.00	100.00	0.0130	Main Channel
18.50	100.30	0.0130 /0.0300	Main Channel
22.00	100.40	0.0300	
29.00	100.70	0.0300	
32.00	100.70	0.0300	
35.00	101.30	0.0300	

<----- TRAVEL TIME TABLE ----->
 DEPTH ELEV VOLUME FLOW RATE VELOCITY TRAV.TIME

(m)	(m)	(cu.m.)	(cms)	(m/s)	(min)
0.06	100.06	.716E+01	0.0	0.64	20.83
0.12	100.12	.287E+02	0.0	1.01	13.12
0.18	100.18	.645E+02	0.1	1.33	10.01
0.24	100.24	.115E+03	0.2	1.61	8.26
0.30	100.30	.179E+03	0.4	1.86	7.12
0.37	100.37	.417E+03	0.9	1.65	8.03
0.44	100.44	.938E+03	1.7	1.43	9.28
0.51	100.51	.166E+04	3.0	1.42	9.32
0.59	100.59	.257E+04	4.8	1.47	9.00
0.66	100.66	.367E+04	7.1	1.55	8.58
0.73	100.73	.508E+04	9.6	1.51	8.79
0.80	100.80	.677E+04	14.2	1.67	7.96
0.87	100.87	.849E+04	19.5	1.83	7.26
0.94	100.94	.103E+05	25.6	1.98	6.69
1.01	101.01	.121E+05	32.4	2.14	6.21
1.09	101.09	.139E+05	39.9	2.28	5.81
1.16	101.16	.158E+05	48.1	2.42	5.48
1.23	101.23	.177E+05	56.9	2.56	5.19
1.30	101.30	.197E+05	66.5	2.69	4.94

		AREA	<---- hydrograph ---->			<-pipe / channel->	
		(ha)	QPEAK	TPEAK	R.V.	MAX DEPTH	MAX VEL
			(cms)	(hrs)	(mm)	(m)	(m/s)
INFLOW :	ID= 2 (0300)	5.92	0.79	12.50	78.57	0.36	1.68
OUTFLOW:	ID= 1 (0306)	5.92	0.72	12.67	78.57	0.35	1.71

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| READ STORM |
|           |
| Ptotal=136.80 mm |
|           |
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Filename: C:\Users\p001130E\AppData
          ata\Local\Temp\
          f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Comments: 100yr 24hr 15min SCS

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64

3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB							
NASHYD (0304)		Area (ha)=	6.29	Curve Number (CN)=	82.0		
ID= 1 DT= 5.0 min		Ia (mm)=	5.00	# of Linear Res.(N)=	3.00		
		U.H. Tp(hrs)=	0.28				

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46

2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.858

PEAK FLOW (cms)= 1.212 (i)
 TIME TO PEAK (hrs)= 12.417
 RUNOFF VOLUME (mm)= 92.572
 TOTAL RAINFALL (mm)= 136.800
 RUNOFF COEFFICIENT = 0.677

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB	Area (ha)= 2.18
STANDHYD (0305)	Total Imp(%)= 90.00 Dir. Conn.(%)= 90.00
ID= 1 DT= 5.0 min	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	1.96	0.22
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.96	2.00
Length	(m)=	120.55	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64

3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	129.63
over (min)	5.00	5.00
Storage Coeff. (min)=	2.35 (ii)	4.74 (ii)
Unit Hyd. Tpeak (min)=	5.00	5.00
Unit Hyd. peak (cms)=	0.30	0.22

TOTALS

PEAK FLOW (cms)=	0.91	0.08	0.988 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	135.80	90.26	131.24
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.66	0.96

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0310)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0304):		6.29	1.212	12.42	92.57
+ ID2= 2 (0305):		2.18	0.988	12.25	131.24
=====					
ID = 3 (0310):		8.47	1.978	12.25	102.53

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

READ STORM	Filename: C:\Users\p001130E\AppData ata\Local\Temp\ f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
Ptotal=136.80 mm	Comments: 100yr 24hr 15min SCS

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		

6.00	2.19	12.25	167.44	18.50	2.46
6.25	2.19	12.50	19.70	18.75	2.46

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| CALIB |
| NASHYD ( 0301) | Area (ha)= 5.82 Curve Number (CN)= 83.0
| ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
|-----|
| U.H. Tp(hrs)= 0.66

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NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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----- TRANSFORMED HYETOGRAPH -----

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64

2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.337

PEAK FLOW (cms)= 0.620 (i)

TIME TO PEAK (hrs)= 12.833

RUNOFF VOLUME (mm)= 94.497

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.691

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | READ STORM |
Ptotal=136.80 mm

Filename: C:\Users\p001130E\AppData
 ata\Local\Temp\
 f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
 Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

 | CALIB |
 | STANDHYD (0302) |
ID= 1 DT= 5.0 min

Area (ha)= 11.25
 Total Imp(%)= 75.00 Dir. Conn.(%)= 60.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	8.44	2.81
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.68	2.00
Length (m)=	273.86	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46
1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64

4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64
5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Max.Eff.Inten.(mm/hr)=	167.44	233.16
over (min)	5.00	10.00
Storage Coeff. (min)=	4.27 (ii)	8.32 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.23	0.13

TOTALS

PEAK FLOW (cms)=	3.07	1.43	4.495 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	135.80	103.66	122.95
TOTAL RAINFALL (mm)=	136.80	136.80	136.80
RUNOFF COEFFICIENT =	0.99	0.76	0.90

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0308)|

1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0301):	5.82	0.620	12.83	94.50
+ ID2= 2 (0302):	11.25	4.495	12.25	122.95
=====				
ID = 3 (0308):	17.07	4.767	12.25	113.25

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0309) 1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0308):	17.07	4.767	12.25	113.25
+ ID2= 2 (0310):	8.47	1.978	12.25	102.53
=====				
ID = 3 (0309):	25.54	6.745	12.25	109.69

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0296) IN= 2---> OUT= 1 DT= 5.0 min	OVERFLOW IS OFF			
	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	1.2770	0.9900
	0.3830	0.6200	*****	1.0000
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0309)	25.540	6.745	12.25	109.69
OUTFLOW: ID= 1 (0296)	25.540	3.442	12.50	109.68

PEAK FLOW REDUCTION [Qout/Qin](%)= 51.04
 TIME SHIFT OF PEAK FLOW (min)= 15.00
 MAXIMUM STORAGE USED (ha.m.)= 1.0006

READ STORM	Filename: C:\Users\p001130E\AppData\Local\Temp\
Ptotal=136.80 mm	f8b850d0-74fd-4ec6-beca-711b43c82dc9\d2d4a1ba
	Comments: 100yr 24hr 15min SCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46

1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64
3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.44	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB							
NASHYD (0303)	Area (ha)=	5.55	Curve Number (CN)=	80.0			
ID= 1 DT= 5.0 min	Ia (mm)=	5.00	# of Linear Res.(N)=	3.00			
	U.H. Tp(hrs)=	0.38					

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	6.167	2.19	12.250	167.44	18.33	2.46
0.167	0.00	6.250	2.19	12.333	19.72	18.42	2.46
0.250	0.00	6.333	2.46	12.417	19.70	18.50	2.46
0.333	1.50	6.417	2.46	12.500	19.70	18.58	2.46
0.417	1.50	6.500	2.46	12.583	19.70	18.67	2.46
0.500	1.50	6.583	2.46	12.667	19.70	18.75	2.46
0.583	1.50	6.667	2.46	12.750	19.70	18.83	2.46
0.667	1.50	6.750	2.46	12.833	10.12	18.92	2.46
0.750	1.50	6.833	2.46	12.917	10.12	19.00	2.46
0.833	1.50	6.917	2.46	13.000	10.12	19.08	2.46
0.917	1.50	7.000	2.46	13.083	10.12	19.17	2.46
1.000	1.50	7.083	2.46	13.167	10.12	19.25	2.46
1.083	1.50	7.167	2.46	13.250	10.12	19.33	2.46
1.167	1.50	7.250	2.46	13.333	7.39	19.42	2.46

1.250	1.50	7.333	3.01	13.417	7.39	19.50	2.46
1.333	1.50	7.417	3.01	13.500	7.39	19.58	2.46
1.417	1.50	7.500	3.01	13.583	7.39	19.67	2.46
1.500	1.50	7.583	3.01	13.667	7.39	19.75	2.46
1.583	1.50	7.667	3.01	13.750	7.39	19.83	2.46
1.667	1.50	7.750	3.01	13.833	5.75	19.92	2.46
1.750	1.50	7.833	3.01	13.917	5.75	20.00	2.46
1.833	1.50	7.917	3.01	14.000	5.75	20.08	2.46
1.917	1.50	8.000	3.01	14.083	5.75	20.17	2.46
2.000	1.50	8.083	3.01	14.167	5.75	20.25	2.46
2.083	1.50	8.167	3.01	14.250	5.75	20.33	1.64
2.167	1.50	8.250	3.01	14.333	4.10	20.42	1.64
2.250	1.50	8.333	3.56	14.417	4.10	20.50	1.64
2.333	1.78	8.417	3.56	14.500	4.10	20.58	1.64
2.417	1.78	8.500	3.56	14.583	4.10	20.67	1.64
2.500	1.78	8.583	3.56	14.667	4.10	20.75	1.64
2.583	1.78	8.667	3.56	14.750	4.10	20.83	1.64
2.667	1.78	8.750	3.56	14.833	4.10	20.92	1.64
2.750	1.78	8.833	3.83	14.917	4.10	21.00	1.64
2.833	1.78	8.917	3.83	15.000	4.10	21.08	1.64
2.917	1.78	9.000	3.83	15.083	4.10	21.17	1.64
3.000	1.78	9.083	3.83	15.167	4.10	21.25	1.64
3.083	1.78	9.167	3.83	15.250	4.10	21.33	1.64
3.167	1.78	9.250	3.83	15.333	4.10	21.42	1.64
3.250	1.78	9.333	4.38	15.417	4.10	21.50	1.64
3.333	1.78	9.417	4.38	15.500	4.10	21.58	1.64
3.417	1.78	9.500	4.38	15.583	4.10	21.67	1.64
3.500	1.78	9.583	4.38	15.667	4.10	21.75	1.64
3.583	1.78	9.667	4.38	15.750	4.10	21.83	1.64
3.667	1.78	9.750	4.38	15.833	4.10	21.92	1.64
3.750	1.78	9.833	4.92	15.917	4.10	22.00	1.64
3.833	1.78	9.917	4.92	16.000	4.10	22.08	1.64
3.917	1.78	10.000	4.92	16.083	4.10	22.17	1.64
4.000	1.78	10.083	4.92	16.167	4.10	22.25	1.64
4.083	1.78	10.167	4.92	16.250	4.10	22.33	1.64
4.167	1.78	10.250	4.92	16.333	2.46	22.42	1.64
4.250	1.78	10.333	6.29	16.417	2.46	22.50	1.64
4.333	2.19	10.417	6.29	16.500	2.46	22.58	1.64
4.417	2.19	10.500	6.29	16.583	2.46	22.67	1.64
4.500	2.19	10.583	6.29	16.667	2.46	22.75	1.64
4.583	2.19	10.667	6.29	16.750	2.46	22.83	1.64
4.667	2.19	10.750	6.29	16.833	2.46	22.92	1.64
4.750	2.19	10.833	8.48	16.917	2.46	23.00	1.64
4.833	2.19	10.917	8.48	17.000	2.46	23.08	1.64
4.917	2.19	11.000	8.48	17.083	2.46	23.17	1.64
5.000	2.19	11.083	8.48	17.167	2.46	23.25	1.64
5.083	2.19	11.167	8.48	17.250	2.46	23.33	1.64
5.167	2.19	11.250	8.48	17.333	2.46	23.42	1.64
5.250	2.19	11.333	13.13	17.417	2.46	23.50	1.64
5.333	2.19	11.417	13.13	17.500	2.46	23.58	1.64
5.417	2.19	11.500	13.13	17.583	2.46	23.67	1.64

5.500	2.19	11.583	13.13	17.667	2.46	23.75	1.64
5.583	2.19	11.667	13.13	17.750	2.46	23.83	1.64
5.667	2.19	11.750	13.13	17.833	2.46	23.92	1.64
5.750	2.19	11.833	40.49	17.917	2.46	24.00	1.64
5.833	2.19	11.917	40.49	18.000	2.46	24.08	1.64
5.917	2.19	12.000	40.49	18.083	2.46	24.17	1.64
6.000	2.19	12.083	167.43	18.167	2.46	24.25	1.64
6.083	2.19	12.167	167.44	18.250	2.46		

Unit Hyd Qpeak (cms)= 0.558

PEAK FLOW (cms)= 0.830 (i)

TIME TO PEAK (hrs)= 12.500

RUNOFF VOLUME (mm)= 88.933

TOTAL RAINFALL (mm)= 136.800

RUNOFF COEFFICIENT = 0.650

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0311)	AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0296):	25.54	3.442	12.50	109.68
+ ID2= 2 (0303):	5.55	0.830	12.50	88.93
=====				
ID = 3 (0311):	31.09	4.273	12.50	105.97

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0311)	AREA	QPEAK	TPEAK	R.V.
3 + 2 = 1	(ha)	(cms)	(hrs)	(mm)
ID1= 3 (0311):	31.09	4.273	12.50	105.97
+ ID2= 2 (0306):	5.92	0.725	12.67	78.57
=====				
ID = 1 (0311):	37.01	4.953	12.50	101.59

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

FINISH

Appendix E Hydraulic Model Schematics, Input and Output Files

HEC-RAS Plan: ReAlgn River: ShoreacresWest Reach: Reach2

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach2	3432.794	Check	10.41	251.57	252.36	252.36	252.60	0.011127	2.14	5.09	12.89	0.99
Reach2	3432.794	Regional	12.78	251.57	252.43	252.43	252.70	0.010605	2.28	6.01	14.05	0.99
Reach2	3432.794	SCS II 100yr	8.01	251.57	252.28	252.28	252.48	0.012252	1.98	4.10	11.55	1.00
Reach2	3432.794	SCS II 50yr	7.20	251.57	252.26	252.26	252.44	0.012433	1.91	3.81	11.12	1.00
Reach2	3400	Check	10.41	251.02	251.57	251.70	252.00	0.031311	2.92	3.89	13.58	1.58
Reach2	3400	Regional	12.78	251.02	251.62	251.77	252.12	0.031067	3.16	4.53	14.65	1.60
Reach2	3400	SCS II 100yr	8.01	251.02	251.53	251.63	251.87	0.029811	2.62	3.26	12.41	1.51
Reach2	3400	SCS II 50yr	7.20	251.02	251.50	251.60	251.83	0.029656	2.53	3.00	11.91	1.49
Reach2	3366.983	Check	10.41	249.94	250.68	250.79	251.09	0.024384	2.84	3.70	9.67	1.42
Reach2	3366.983	Regional	12.78	249.94	250.74	250.87	251.21	0.024304	3.03	4.29	10.37	1.44
Reach2	3366.983	SCS II 100yr	8.01	249.94	250.61	250.70	250.96	0.025528	2.64	3.04	8.82	1.42
Reach2	3366.983	SCS II 50yr	7.20	249.94	250.58	250.67	250.91	0.025849	2.56	2.82	8.52	1.41
Reach2	3353.582	Check	10.41	248.69	249.46	249.77	250.51	0.070773	4.54	2.30	6.07	2.36
Reach2	3353.582	Regional	12.78	248.69	249.53	249.85	250.64	0.066478	4.66	2.74	6.65	2.32
Reach2	3353.582	SCS II 100yr	8.01	248.69	249.38	249.66	250.35	0.076210	4.37	1.83	5.41	2.40
Reach2	3353.582	SCS II 50yr	7.20	248.69	249.35	249.62	250.29	0.078693	4.31	1.67	5.16	2.42
Reach2	3300	Check	10.41	244.38	245.08	245.40	246.28	0.087750	4.85	2.14	6.06	2.61
Reach2	3300	Regional	12.78	244.38	245.13	245.49	246.49	0.089997	5.16	2.48	6.51	2.67
Reach2	3300	SCS II 100yr	8.01	244.38	245.02	245.31	246.04	0.084746	4.49	1.79	5.53	2.52
Reach2	3300	SCS II 50yr	7.20	244.38	244.99	245.27	245.95	0.083330	4.34	1.66	5.34	2.48
Reach2	3254.336	Check	10.41	241.61	242.34	242.57	243.10	0.052438	3.86	2.70	7.37	2.03
Reach2	3254.336	Regional	12.78	241.61	242.40	242.66	243.25	0.052760	4.07	3.14	7.95	2.07
Reach2	3254.336	SCS II 100yr	8.01	241.61	242.28	242.48	242.94	0.052302	3.61	2.22	6.69	2.00
Reach2	3254.336	SCS II 50yr	7.20	241.61	242.25	242.45	242.88	0.052381	3.51	2.05	6.42	1.99
Reach2	3200	Check	10.41	237.90	238.75	239.09	239.87	0.066273	4.69	2.22	5.20	2.29
Reach2	3200	Regional	12.78	237.90	238.82	239.19	240.04	0.064636	4.89	2.61	5.65	2.30
Reach2	3200	SCS II 100yr	8.01	237.90	238.67	238.97	239.67	0.068240	4.44	1.80	4.69	2.29
Reach2	3200	SCS II 50yr	7.20	237.90	238.64	238.92	239.60	0.068926	4.34	1.66	4.50	2.28
Reach2	3151.197	Check	10.41	235.71	236.55	236.77	237.24	0.040928	3.68	2.83	6.80	1.82
Reach2	3151.197	Regional	12.78	235.71	236.61	236.85	237.39	0.042225	3.92	3.26	7.32	1.87
Reach2	3151.197	SCS II 100yr	8.01	235.71	236.47	236.67	237.07	0.039395	3.41	2.35	6.18	1.76
Reach2	3151.197	SCS II 50yr	7.20	235.71	236.45	236.63	237.00	0.038830	3.30	2.18	5.94	1.74
Reach2	3100	Check	10.41	232.85	233.65	233.94	234.64	0.062879	4.40	2.37	5.95	2.23
Reach2	3100	Regional	12.78	232.85	233.72	234.03	234.79	0.060841	4.57	2.79	6.47	2.22
Reach2	3100	SCS II 100yr	8.01	232.85	233.57	233.84	234.47	0.065808	4.19	1.91	5.34	2.24
Reach2	3100	SCS II 50yr	7.20	232.85	233.54	233.80	234.41	0.067074	4.11	1.75	5.11	2.24
Reach2	3061.389	Check	10.41	231.35	232.22	232.41	232.80	0.033082	3.37	3.09	7.22	1.65
Reach2	3061.389	Regional	12.78	231.35	232.29	232.49	232.94	0.034195	3.58	3.57	7.83	1.69
Reach2	3061.389	SCS II 100yr	8.01	231.35	232.15	232.31	232.65	0.031694	3.13	2.56	6.49	1.59
Reach2	3061.389	SCS II 50yr	7.20	231.35	232.12	232.27	232.59	0.031158	3.03	2.37	6.22	1.57
Reach2	3038.913	Check	10.41	230.53	231.44	231.64	232.06	0.032945	3.48	2.99	6.62	1.65
Reach2	3038.913	Regional	12.78	230.53	231.52	231.73	232.19	0.032389	3.64	3.51	7.17	1.66
Reach2	3038.913	SCS II 100yr	8.01	230.53	231.35	231.53	231.90	0.033855	3.29	2.43	5.96	1.65
Reach2	3038.913	SCS II 50yr	7.20	230.53	231.32	231.49	231.85	0.034268	3.22	2.24	5.72	1.64
Reach2	2999.999	Check	10.41	228.82	229.57	229.82	230.40	0.055613	4.03	2.59	6.93	2.09
Reach2	2999.999	Regional	12.78	228.82	229.63	229.91	230.57	0.053699	4.29	3.00	7.45	2.10
Reach2	2999.999	SCS II 100yr	8.01	228.82	229.50	229.72	230.22	0.055780	3.75	2.14	6.32	2.06
Reach2	2999.999	SCS II 50yr	7.20	228.82	229.48	229.68	230.16	0.055628	3.64	1.98	6.08	2.04
Reach2	2958.576	Check	10.41	226.63	227.19	227.42	227.97	0.061367	3.96	2.99	10.93	2.18
Reach2	2958.576	Regional	12.78	226.63	227.23	227.50	228.14	0.063796	4.30	3.45	11.52	2.26
Reach2	2958.576	SCS II 100yr	8.01	226.63	227.14	227.34	227.79	0.060788	3.61	2.45	10.17	2.13
Reach2	2958.576	SCS II 50yr	7.20	226.63	227.12	227.30	227.73	0.060781	3.48	2.26	9.83	2.11
Reach2	2899.999	Check	10.41	223.48	224.41	224.65	225.14	0.038971	3.78	2.75	6.03	1.79
Reach2	2899.999	Regional	12.78	223.48	224.49	224.74	225.28	0.038141	3.95	3.24	6.56	1.79
Reach2	2899.999	SCS II 100yr	8.01	223.48	224.32	224.53	224.97	0.039348	3.56	2.25	5.42	1.77
Reach2	2899.999	SCS II 50yr	7.20	223.48	224.29	224.49	224.90	0.039381	3.48	2.07	5.19	1.76
Reach2	2852.874	Check	10.41	221.13	221.76	222.05	222.74	0.067974	4.38	2.45	7.69	2.31
Reach2	2852.874	Regional	12.78	221.13	221.82	222.14	222.92	0.066361	4.68	2.87	8.33	2.32
Reach2	2852.874	SCS II 100yr	8.01	221.13	221.70	221.94	222.53	0.070170	4.02	2.01	6.98	2.29
Reach2	2852.874	SCS II 50yr	7.20	221.13	221.68	221.91	222.45	0.071077	3.88	1.87	6.72	2.28
Reach2	2800	Check	10.41	218.91	219.66	219.82	220.18	0.032963	3.20	3.30	9.16	1.64
Reach2	2800	Regional	12.78	218.91	219.71	219.90	220.32	0.034272	3.48	3.76	9.72	1.69

HEC-RAS Plan: ReAlign River: ShoreacresWest Reach: Reach2 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach2	2800	SCS II 100yr	8.01	218.91	219.60	219.73	220.02	0.031402	2.88	2.79	8.48	1.56
Reach2	2800	SCS II 50yr	7.20	218.91	219.58	219.69	219.97	0.030811	2.76	2.62	8.21	1.54
Reach2	2740.648	Check	10.41	216.32	216.93	217.16	217.69	0.053799	3.90	2.89	9.79	2.07
Reach2	2740.648	Regional	12.78	216.32	216.98	217.24	217.83	0.051529	4.11	3.46	10.71	2.06
Reach2	2740.648	SCS II 100yr	8.01	216.32	216.87	217.07	217.54	0.057329	3.64	2.31	8.73	2.08
Reach2	2740.648	SCS II 50yr	7.20	216.32	216.84	217.04	217.48	0.058992	3.54	2.11	8.34	2.09
Reach2	2700	Check	10.41	214.29	214.88	215.11	215.62	0.047596	3.89	3.30	11.18	1.97
Reach2	2700	Regional	12.78	214.29	214.93	215.19	215.78	0.048613	4.20	3.87	11.98	2.02
Reach2	2700	SCS II 100yr	8.01	214.29	214.83	215.02	215.43	0.045776	3.50	2.72	10.30	1.89
Reach2	2700	SCS II 50yr	7.20	214.29	214.81	214.98	215.37	0.044896	3.35	2.51	9.98	1.86
Reach2	2647.645	Check	10.41	212.14	212.59	212.76	213.14	0.045508	3.28	3.28	12.04	1.87
Reach2	2647.645	Regional	12.78	212.14	212.63	212.83	213.27	0.045534	3.56	3.78	12.86	1.91
Reach2	2647.645	SCS II 100yr	8.01	212.14	212.54	212.68	213.00	0.045925	2.98	2.73	11.02	1.83
Reach2	2647.645	SCS II 50yr	7.20	212.14	212.53	212.65	212.95	0.046267	2.87	2.53	10.66	1.82
Reach2	2600	Check	10.41	210.43	211.08	211.21	211.50	0.025708	2.91	3.97	12.12	1.46
Reach2	2600	Regional	12.78	210.43	211.13	211.28	211.62	0.025977	3.12	4.68	13.16	1.49
Reach2	2600	SCS II 100yr	8.01	210.43	211.02	211.12	211.37	0.025425	2.67	3.24	10.92	1.42
Reach2	2600	SCS II 50yr	7.20	210.43	210.99	211.09	211.33	0.025297	2.57	2.99	10.48	1.41
Reach2	2544.398	Check	10.41	208.26	208.82	209.06	209.58	0.048113	3.93	3.28	11.49	1.98
Reach2	2544.398	Regional	12.78	208.26	208.88	209.14	209.71	0.046335	4.15	3.97	12.50	1.98
Reach2	2544.398	SCS II 100yr	8.01	208.26	208.76	208.96	209.42	0.050537	3.65	2.57	10.19	1.98
Reach2	2544.398	SCS II 50yr	7.20	208.26	208.73	208.93	209.36	0.051611	3.54	2.34	9.69	1.98
Reach2	2486.139	Check	10.41	205.70	206.35	206.53	206.93	0.041360	3.36	3.10	8.78	1.81
Reach2	2486.139	Regional	12.78	205.70	206.40	206.61	207.06	0.042997	3.59	3.56	9.40	1.86
Reach2	2486.139	SCS II 100yr	8.01	205.70	206.29	206.45	206.78	0.039345	3.09	2.60	8.05	1.73
Reach2	2486.139	SCS II 50yr	7.20	205.70	206.27	206.42	206.72	0.038531	2.98	2.42	7.77	1.71
Reach2	2444.134	Check	10.41	205.10	205.70	205.71	205.93	0.012966	2.22	5.91	14.22	1.06
Reach2	2444.134	Regional	12.78	205.10	205.76	205.78	206.03	0.013188	2.38	6.82	15.00	1.08
Reach2	2444.134	SCS II 100yr	8.01	205.10	205.63	205.63	205.82	0.012748	2.04	4.91	13.33	1.03
Reach2	2444.134	SCS II 50yr	7.20	205.10	205.59	205.60	205.78	0.013493	2.01	4.46	12.90	1.05
Reach2	2400	Check	10.41	205.15	205.56	205.38	205.60	0.002059	0.82	13.11	34.12	0.41
Reach2	2400	Regional	12.78	205.15	205.60	205.42	205.65	0.002225	0.91	14.54	34.40	0.44
Reach2	2400	SCS II 100yr	8.01	205.15	205.52	205.35	205.54	0.001830	0.71	11.56	33.83	0.38
Reach2	2400	SCS II 50yr	7.20	205.15	205.50	205.34	205.52	0.001730	0.67	11.01	33.73	0.37
Reach2	2351.239	Check	10.41	205.17	205.39	205.33	205.44	0.006022	0.94	11.18	51.58	0.64
Reach2	2351.239	Regional	12.78	205.17	205.41	205.36	205.47	0.007143	1.08	12.02	51.69	0.71
Reach2	2351.239	SCS II 100yr	8.01	205.17	205.36	205.31	205.40	0.005374	0.82	9.87	51.41	0.59
Reach2	2351.239	SCS II 50yr	7.20	205.17	205.35	205.30	205.38	0.005395	0.79	9.24	51.33	0.59
Reach2	2339.148	Check	10.41	205.17	205.22	205.18	205.25	0.024889	0.74	14.80	88.52	1.03
Reach2	2339.148	Regional	12.78	205.17	205.29	205.19	205.31	0.011520	0.86	20.49	88.69	0.80
Reach2	2339.148	SCS II 100yr	8.01	205.17	205.19	205.18	205.21	0.031376	0.38	11.55	88.40	0.95
Reach2	2339.148	SCS II 50yr	7.20	205.17	205.19	205.18	205.21	0.025351	0.34	11.55	88.40	0.85
Reach2	2327.455		Int Struct									
Reach2	2278.069	Check	10.41	199.67	200.18	199.89	200.20	0.000928	0.65	16.63	33.92	0.29
Reach2	2278.069	Regional	12.78	199.67	200.24	199.93	200.27	0.000952	0.71	18.74	34.24	0.30
Reach2	2278.069	SCS II 100yr	8.01	199.67	200.11	199.86	200.13	0.000901	0.58	14.27	33.56	0.28
Reach2	2278.069	SCS II 50yr	7.20	199.67	200.09	199.84	200.10	0.000879	0.55	13.46	33.44	0.27
Reach2	2247.374	Check	10.41	199.67	199.95	199.95	200.09	0.013438	1.67	6.60	24.64	1.00
Reach2	2247.374	Regional	12.78	199.67	200.00	200.00	200.16	0.012707	1.78	7.65	24.99	1.00
Reach2	2247.374	SCS II 100yr	8.01	199.67	199.91	199.91	200.03	0.013924	1.52	5.54	24.28	0.99
Reach2	2247.374	SCS II 50yr	7.20	199.67	199.89	199.89	200.00	0.014796	1.48	5.08	24.12	1.01
Reach2	2228.365	Check	10.41	198.56	199.41	199.36	199.41	0.000127	0.14	84.69	82.20	0.09
Reach2	2228.365	Regional	12.78	198.56	199.41	199.36	199.41	0.000191	0.17	84.66	82.19	0.11
Reach2	2228.365	SCS II 100yr	8.01	198.56	199.36	199.36	199.36	0.000088	0.10	80.80	80.69	0.07
Reach2	2228.365	SCS II 50yr	7.20	198.56	199.36	199.36	199.36	0.000071	0.09	80.63	80.63	0.07
Reach2	2218.203		Culvert									
Reach2	2198.819	Check	10.41	196.15	196.91	196.91	197.13	0.010874	2.13	5.45	13.39	0.98
Reach2	2198.819	Regional	12.78	196.15	196.98	196.98	197.22	0.010354	2.23	6.51	14.55	0.97
Reach2	2198.819	SCS II 100yr	8.01	196.15	196.83	196.83	197.02	0.011136	1.98	4.43	12.24	0.97
Reach2	2198.819	SCS II 50yr	7.20	196.15	196.79	196.79	196.98	0.011497	1.94	4.04	11.83	0.98

HEC-RAS Plan: ReAlign River: ShoreacresWest Reach: Reach2 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach2	2172.131	Check	10.41	194.92	195.23	195.45	196.19	0.157584	4.46	2.75	19.47	3.22
Reach2	2172.131	Regional	12.78	194.92	195.26	195.48	196.30	0.151831	4.69	3.32	21.56	3.21
Reach2	2172.131	SCS II 100yr	8.01	194.92	195.20	195.42	196.07	0.168436	4.21	2.14	16.85	3.25
Reach2	2172.131	SCS II 50yr	7.20	194.92	195.19	195.37	196.02	0.171289	4.10	1.94	15.91	3.25
Reach2	2094.662	Check	10.41	191.69	193.70	192.60	193.70	0.000125	0.46	34.88	44.81	0.12
Reach2	2094.662	Regional	12.78	191.69	193.76	192.69	193.77	0.000158	0.54	37.64	46.23	0.14
Reach2	2094.662	SCS II 100yr	8.01	191.69	193.62	192.50	193.63	0.000091	0.38	31.75	43.18	0.11
Reach2	2094.662	SCS II 50yr	7.20	191.69	193.60	192.46	193.60	0.000081	0.36	30.52	42.55	0.10
Reach2	2086.162	Check	10.41	191.56	193.69	192.47	193.70	0.000111	0.48	33.61	52.18	0.12
Reach2	2086.162	Regional	12.78	191.56	193.75	192.54	193.77	0.000144	0.56	36.81	55.82	0.14
Reach2	2086.162	SCS II 100yr	8.01	191.56	193.62	192.38	193.63	0.000077	0.39	30.23	41.38	0.10
Reach2	2086.162	SCS II 50yr	7.20	191.56	193.59	192.35	193.60	0.000067	0.36	29.10	38.47	0.09
Reach2	2073.753	Culvert										
Reach2	2061.398	Check	10.41	190.23	191.16	191.16	191.42	0.011267	2.25	4.62	9.44	1.00
Reach2	2061.398	Regional	12.78	190.23	191.24	191.24	191.53	0.011137	2.41	5.31	10.07	1.01
Reach2	2061.398	SCS II 100yr	8.01	190.23	191.07	191.07	191.29	0.012104	2.10	3.81	8.67	1.01
Reach2	2061.398	SCS II 50yr	7.20	190.23	191.04	191.04	191.25	0.011910	2.02	3.56	8.42	0.99
Reach2	2052.583	Check	10.41	190.22	190.87	190.97	191.25	0.023185	2.70	3.90	10.66	1.38
Reach2	2052.583	Regional	12.78	190.22	190.93	191.04	191.35	0.023056	2.89	4.51	11.31	1.40
Reach2	2052.583	SCS II 100yr	8.01	190.22	190.81	190.89	191.12	0.023118	2.47	3.26	9.93	1.35
Reach2	2052.583	SCS II 50yr	7.20	190.22	190.79	190.86	191.08	0.023429	2.38	3.02	9.64	1.34
Reach2	2021.198	Check	10.41	189.57	190.01	190.13	190.39	0.031963	2.92	4.90	22.63	1.59
Reach2	2021.198	Regional	12.78	189.57	190.04	190.19	190.48	0.033330	3.18	5.68	23.66	1.65
Reach2	2021.198	SCS II 100yr	8.01	189.57	189.97	190.07	190.29	0.030582	2.63	4.01	20.96	1.52
Reach2	2021.198	SCS II 50yr	7.20	189.57	189.95	190.05	190.25	0.029884	2.51	3.70	20.09	1.49
Reach2	2000	Check	10.41	188.64	189.00	189.15	189.51	0.055310	3.20	3.54	17.14	2.00
Reach2	2000	Regional	12.78	188.64	189.03	189.21	189.60	0.052104	3.40	4.20	18.34	1.99
Reach2	2000	SCS II 100yr	8.01	188.64	188.95	189.09	189.40	0.059667	2.97	2.85	15.81	2.02
Reach2	2000	SCS II 50yr	7.20	188.64	188.94	189.07	189.36	0.061774	2.88	2.61	15.32	2.03
Reach2	1949.359	Check	10.41	187.43	187.84	187.88	188.04	0.016110	2.23	9.12	36.32	1.15
Reach2	1949.359	Regional	12.78	187.43	187.88	187.93	188.11	0.017020	2.44	10.47	37.17	1.20
Reach2	1949.359	SCS II 100yr	8.01	187.43	187.80	187.83	187.96	0.015077	2.00	7.61	35.34	1.09
Reach2	1949.359	SCS II 50yr	7.20	187.43	187.79	187.81	187.94	0.014678	1.91	7.05	34.96	1.07
Reach2	1924.601	Check	10.41	187.03	187.41	187.44	187.59	0.020457	2.09	8.14	36.30	1.24
Reach2	1924.601	Regional	12.78	187.03	187.45	187.49	187.66	0.019608	2.23	9.62	38.15	1.24
Reach2	1924.601	SCS II 100yr	8.01	187.03	187.37	187.40	187.52	0.021472	1.92	6.61	34.11	1.24
Reach2	1924.601	SCS II 50yr	7.20	187.03	187.35	187.38	187.50	0.022165	1.87	6.05	33.26	1.24
Reach2	1899.999	Check	10.41	185.84	186.24	186.39	186.76	0.059784	3.46	4.77	21.77	2.10
Reach2	1899.999	Regional	12.78	185.84	186.28	186.45	186.84	0.058898	3.64	5.64	22.87	2.11
Reach2	1899.999	SCS II 100yr	8.01	185.84	186.20	186.33	186.66	0.061168	3.24	3.84	20.56	2.08
Reach2	1899.999	SCS II 50yr	7.20	185.84	186.18	186.31	186.62	0.061055	3.14	3.52	20.14	2.06
Reach2	1855.917	Check	10.41	184.73	185.11	185.14	185.28	0.020796	2.16	9.88	46.22	1.25
Reach2	1855.917	Regional	12.78	184.73	185.14	185.18	185.33	0.021645	2.33	11.43	48.22	1.30
Reach2	1855.917	SCS II 100yr	8.01	184.73	185.07	185.10	185.21	0.019759	1.96	8.20	43.93	1.20
Reach2	1855.917	SCS II 50yr	7.20	184.73	185.06	185.08	185.19	0.019443	1.89	7.58	43.06	1.18
Reach2	1799.999	Check	10.41	183.90	184.23	184.23	184.34	0.014396	1.57	9.06	47.11	1.01
Reach2	1799.999	Regional	12.78	183.90	184.26	184.27	184.39	0.014198	1.69	10.56	48.70	1.02
Reach2	1799.999	SCS II 100yr	8.01	183.90	184.19	184.20	184.29	0.014686	1.43	7.45	45.33	1.00
Reach2	1799.999	SCS II 50yr	7.20	183.90	184.18	184.18	184.27	0.014710	1.38	6.90	44.71	0.99
Reach2	1755.082	Check	10.41	182.33	182.69	182.84	183.17	0.058670	3.40	5.30	26.54	2.07
Reach2	1755.082	Regional	12.78	182.33	182.73	182.88	183.24	0.055589	3.57	6.36	28.14	2.05
Reach2	1755.082	SCS II 100yr	8.01	182.33	182.64	182.77	183.07	0.062409	3.18	4.20	24.77	2.09
Reach2	1755.082	SCS II 50yr	7.20	182.33	182.63	182.75	183.04	0.064342	3.10	3.82	24.16	2.10
Reach2	1699.999	Check	10.41	181.08	181.60	181.62	181.81	0.012694	2.11	6.69	22.54	1.04
Reach2	1699.999	Regional	12.78	181.08	181.65	181.68	181.90	0.012958	2.29	7.84	24.34	1.07
Reach2	1699.999	SCS II 100yr	8.01	181.08	181.55	181.55	181.72	0.012368	1.89	5.49	20.62	1.00
Reach2	1699.999	SCS II 50yr	7.20	181.08	181.53	181.53	181.69	0.012228	1.81	5.08	19.91	0.98
Reach2	1656.537	Check	10.41	179.96	180.41	180.55	180.86	0.043888	3.01	3.79	16.05	1.81
Reach2	1656.537	Regional	12.78	179.96	180.45	180.61	180.96	0.040685	3.19	4.51	17.33	1.78
Reach2	1656.537	SCS II 100yr	8.01	179.96	180.36	180.48	180.75	0.048343	2.80	3.06	14.65	1.84
Reach2	1656.537	SCS II 50yr	7.20	179.96	180.34	180.46	180.72	0.049825	2.73	2.80	14.13	1.85

HEC-RAS Plan: ReAlgn River: ShoreacresWest Reach: Reach2 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach2	1629.578	Check	10.41	179.72	180.18	180.18	180.33	0.011954	1.85	8.70	34.65	0.98
Reach2	1629.578	Regional	12.78	179.72	180.16	180.23	180.42	0.021549	2.40	8.11	33.85	1.31
Reach2	1629.578	SCS II 100yr	8.01	179.72	180.13	180.13	180.26	0.012287	1.69	6.99	32.29	0.97
Reach2	1629.578	SCS II 50yr	7.20	179.72	180.11	180.11	180.23	0.012266	1.63	6.43	31.46	0.96
Reach2	1600	Check	10.41	178.59	178.96	179.15	179.59	0.066486	3.58	3.48	17.61	2.20
Reach2	1600	Regional	12.78	178.59	179.05	179.21	179.56	0.039220	3.29	5.08	21.16	1.77
Reach2	1600	SCS II 100yr	8.01	178.59	178.92	179.08	179.48	0.075654	3.38	2.71	15.39	2.28
Reach2	1600	SCS II 50yr	7.20	178.59	178.90	179.05	179.45	0.079237	3.32	2.43	14.54	2.31
Reach2	1545.621	Check	10.41	177.96	178.47	178.47	178.64	0.010654	2.00	8.66	33.45	0.96
Reach2	1545.621	Regional	12.78	177.96	178.54	178.54	178.72	0.009350	2.07	11.23	40.85	0.92
Reach2	1545.621	SCS II 100yr	8.01	177.96	178.40	178.40	178.56	0.010972	1.84	6.75	27.99	0.95
Reach2	1545.621	SCS II 50yr	7.20	177.96	178.38	178.38	178.53	0.011249	1.78	6.09	26.77	0.95
Reach2	1499.999	Check	10.41	176.89	177.23	177.37	177.70	0.051326	3.07	3.98	19.69	1.93
Reach2	1499.999	Regional	12.78	176.89	177.26	177.43	177.83	0.055154	3.40	4.52	20.73	2.03
Reach2	1499.999	SCS II 100yr	8.01	176.89	177.19	177.31	177.58	0.053289	2.81	3.24	18.16	1.91
Reach2	1499.999	SCS II 50yr	7.20	176.89	177.18	177.29	177.54	0.053065	2.69	3.00	17.64	1.89
Reach2	1482.723	Check	10.41	176.79	177.24	177.24	177.39	0.011955	1.95	9.41	34.22	0.99
Reach2	1482.723	Regional	12.78	176.79	177.29	177.29	177.46	0.011639	2.08	11.14	36.00	1.00
Reach2	1482.723	SCS II 100yr	8.01	176.79	177.19	177.19	177.32	0.012025	1.78	7.67	32.46	0.97
Reach2	1482.723	SCS II 50yr	7.20	176.79	177.16	177.16	177.29	0.012433	1.73	6.97	31.64	0.98
Reach2	1451.072	Check	10.41	175.82	176.10	176.25	176.61	0.069928	3.19	3.62	21.03	2.18
Reach2	1451.072	Regional	12.78	175.82	176.13	176.30	176.70	0.065447	3.38	4.32	22.40	2.16
Reach2	1451.072	SCS II 100yr	8.01	175.82	176.07	176.19	176.51	0.077826	2.97	2.88	19.20	2.23
Reach2	1451.072	SCS II 50yr	7.20	175.82	176.05	176.17	176.47	0.078256	2.86	2.66	18.64	2.21
Reach2	1399.999	Check	10.41	174.87	175.53	175.36	175.60	0.003169	1.26	14.39	40.26	0.54
Reach2	1399.999	Regional	12.78	174.87	175.59	175.42	175.67	0.003271	1.37	16.77	42.09	0.56
Reach2	1399.999	SCS II 100yr	8.01	174.87	175.47	175.30	175.52	0.003042	1.14	11.79	37.78	0.52
Reach2	1399.999	SCS II 50yr	7.20	174.87	175.44	175.28	175.49	0.002954	1.08	10.90	36.03	0.51
Reach2	1381.724	Check	10.41	174.87	175.34	175.34	175.50	0.010437	1.94	10.08	38.38	0.94
Reach2	1381.724	Regional	12.78	174.87	175.39	175.39	175.57	0.010264	2.07	12.05	40.59	0.95
Reach2	1381.724	SCS II 100yr	8.01	174.87	175.29	175.29	175.42	0.010583	1.78	8.00	35.86	0.93
Reach2	1381.724	SCS II 50yr	7.20	174.87	175.26	175.26	175.40	0.010978	1.74	7.17	34.25	0.94
Reach2	1367.199	Check	10.41	174.69	174.97	175.05	175.22	0.039141	2.25	4.95	31.41	1.61
Reach2	1367.199	Regional	12.78	174.69	174.99	175.09	175.29	0.038975	2.43	5.80	34.19	1.64
Reach2	1367.199	SCS II 100yr	8.01	174.69	174.94	175.00	175.15	0.039167	2.03	4.10	28.45	1.57
Reach2	1367.199	SCS II 50yr	7.20	174.69	174.93	174.99	175.12	0.037254	1.92	3.87	27.62	1.52
Reach2	1359.624	Check	10.41	174.25	174.73	174.73	174.88	0.016701	2.01	9.66	36.72	1.14
Reach2	1359.624	Regional	12.78	174.25	174.77	174.77	174.94	0.015831	2.15	11.42	39.17	1.13
Reach2	1359.624	SCS II 100yr	8.01	174.25	174.68	174.68	174.81	0.017247	1.84	7.95	34.42	1.12
Reach2	1359.624	SCS II 50yr	7.20	174.25	174.66	174.66	174.78	0.018095	1.79	7.26	33.62	1.14
Reach2	1348.734	Check	10.41	173.08	173.44	173.68	174.41	0.135782	4.36	2.39	11.25	3.02
Reach2	1348.734	Regional	12.78	173.08	173.48	173.74	174.50	0.119238	4.47	2.86	12.22	2.90
Reach2	1348.734	SCS II 100yr	8.01	173.08	173.40	173.61	174.32	0.148536	4.27	1.88	9.78	3.11
Reach2	1348.734	SCS II 50yr	7.20	173.08	173.38	173.58	174.28	0.147167	4.22	1.71	8.98	3.09
Reach2	1300	Check	10.41	173.05	173.49	173.49	173.62	0.011001	1.89	11.94	51.64	0.96
Reach2	1300	Regional	12.78	173.05	173.53	173.53	173.68	0.010850	2.01	14.33	55.62	0.97
Reach2	1300	SCS II 100yr	8.01	173.05	173.43	173.43	173.56	0.011682	1.76	9.26	46.19	0.96
Reach2	1300	SCS II 50yr	7.20	173.05	173.41	173.41	173.53	0.012103	1.72	8.30	43.75	0.97
Reach2	1255.146	Check	10.41	171.76	172.10	172.26	172.63	0.063657	3.42	4.56	25.77	2.14
Reach2	1255.146	Regional	12.78	171.76	172.14	172.30	172.71	0.059186	3.61	5.57	28.26	2.11
Reach2	1255.146	SCS II 100yr	8.01	171.76	172.06	172.20	172.51	0.065832	3.13	3.64	22.96	2.12
Reach2	1255.146	SCS II 50yr	7.20	171.76	172.05	172.18	172.46	0.065463	3.00	3.36	21.98	2.10
Reach2	1255.07*	Check	10.41	171.54	172.00	172.08	172.28	0.021937	2.51	6.67	29.35	1.33
Reach2	1255.07*	Regional	12.78	171.54	172.03	172.13	172.36	0.023113	2.74	7.79	31.34	1.39
Reach2	1255.07*	SCS II 100yr	8.01	171.54	171.96	172.01	172.18	0.020128	2.22	5.52	26.67	1.25
Reach2	1255.07*	SCS II 50yr	7.20	171.54	171.94	171.99	172.14	0.019299	2.10	5.14	25.86	1.21
Reach2	1254.95*	Check	10.41	171.32	171.88	171.90	172.07	0.011090	2.06	8.54	31.61	0.98
Reach2	1254.95*	Regional	12.78	171.32	171.93	171.94	172.14	0.011247	2.22	10.11	33.00	1.00
Reach2	1254.95*	SCS II 100yr	8.01	171.32	171.82	171.82	171.98	0.011594	1.91	6.63	28.12	0.98
Reach2	1254.95*	SCS II 50yr	7.20	171.32	171.79	171.80	171.95	0.012038	1.86	5.94	26.76	0.99
Reach2	1254.85*	Check	10.41	171.11	171.64	171.72	171.92	0.018247	2.48	6.56	27.17	1.24
Reach2	1254.85*	Regional	12.78	171.11	171.69	171.77	172.00	0.016938	2.60	8.20	30.55	1.22

HEC-RAS Plan: ReAlign River: ShoreacresWest Reach: Reach2 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach2	1254.85*	SCS II 100yr	8.01	171.11	171.58	171.64	171.83	0.019364	2.30	5.04	23.76	1.24
Reach2	1254.85*	SCS II 50yr	7.20	171.11	171.56	171.62	171.79	0.019682	2.22	4.55	22.46	1.24
Reach2	1254.75*	Check	10.41	170.89	171.46	171.53	171.74	0.016988	2.48	6.49	26.33	1.20
Reach2	1254.75*	Regional	12.78	170.89	171.51	171.60	171.83	0.016624	2.64	7.96	29.41	1.21
Reach2	1254.75*	SCS II 100yr	8.01	170.89	171.40	171.46	171.64	0.016991	2.25	5.09	23.12	1.18
Reach2	1254.75*	SCS II 50yr	7.20	170.89	171.38	171.43	171.61	0.016791	2.16	4.64	21.97	1.16
Reach2	1254.65*	Check	10.41	170.67	171.27	171.36	171.57	0.017049	2.53	6.31	25.51	1.21
Reach2	1254.65*	Regional	12.78	170.67	171.33	171.43	171.66	0.016651	2.70	7.82	30.55	1.22
Reach2	1254.65*	SCS II 100yr	8.01	170.67	171.21	171.28	171.47	0.017426	2.32	4.86	22.11	1.20
Reach2	1254.65*	SCS II 50yr	7.20	170.67	171.19	171.25	171.43	0.017601	2.24	4.37	20.74	1.19
Reach2	1254.55*	Check	10.41	170.45	171.10	171.18	171.40	0.016504	2.56	6.32	27.91	1.20
Reach2	1254.55*	Regional	12.78	170.45	171.15	171.25	171.49	0.016655	2.76	7.83	31.63	1.23
Reach2	1254.55*	SCS II 100yr	8.01	170.45	171.03	171.10	171.30	0.016965	2.35	4.77	21.79	1.19
Reach2	1254.55*	SCS II 50yr	7.20	170.45	171.01	171.07	171.26	0.017047	2.27	4.29	20.47	1.18
Reach2	1254.45*	Check	10.41	170.24	170.91	171.01	171.23	0.016911	2.63	6.34	29.26	1.22
Reach2	1254.45*	Regional	12.78	170.24	170.96	171.07	171.32	0.017061	2.82	7.89	32.10	1.24
Reach2	1254.45*	SCS II 100yr	8.01	170.24	170.85	170.93	171.13	0.016614	2.39	4.75	24.77	1.18
Reach2	1254.45*	SCS II 50yr	7.20	170.24	170.83	170.91	171.09	0.016895	2.31	4.19	20.60	1.18
Reach2	1254.35*	Check	10.41	170.02	170.73	170.83	171.06	0.017630	2.70	6.46	29.31	1.24
Reach2	1254.35*	Regional	12.78	170.02	170.78	170.89	171.15	0.017765	2.90	7.98	31.37	1.27
Reach2	1254.35*	SCS II 100yr	8.01	170.02	170.67	170.76	170.96	0.017294	2.46	4.86	26.48	1.21
Reach2	1254.35*	SCS II 50yr	7.20	170.02	170.65	170.73	170.92	0.017034	2.36	4.32	25.20	1.19
Reach2	1254.25*	Check	10.41	169.80	170.54	170.64	170.88	0.018195	2.76	6.66	28.47	1.26
Reach2	1254.25*	Regional	12.78	169.80	170.59	170.70	170.97	0.018264	2.95	8.14	30.12	1.29
Reach2	1254.25*	SCS II 100yr	8.01	169.80	170.48	170.57	170.78	0.017910	2.52	5.09	26.58	1.23
Reach2	1254.25*	SCS II 50yr	7.20	169.80	170.46	170.54	170.74	0.017797	2.43	4.52	25.58	1.21
Reach2	1254.146	Check	10.41	169.58	170.36	170.46	170.70	0.018682	2.80	6.84	26.85	1.28
Reach2	1254.146	Regional	12.78	169.58	170.41	170.51	170.78	0.018435	2.98	8.31	28.22	1.29
Reach2	1254.146	SCS II 100yr	8.01	169.58	170.30	170.39	170.60	0.018645	2.57	5.30	25.28	1.25
Reach2	1254.146	SCS II 50yr	7.20	169.58	170.28	170.36	170.56	0.018569	2.48	4.76	24.57	1.24
Reach2	1254.06*	Check	10.41	169.40	170.27	170.32	170.54	0.011167	2.45	7.70	26.29	1.02
Reach2	1254.06*	Regional	12.78	169.40	170.34	170.39	170.62	0.010413	2.56	9.68	28.04	1.00
Reach2	1254.06*	SCS II 100yr	8.01	169.40	170.19	170.24	170.44	0.012114	2.31	5.64	23.79	1.03
Reach2	1254.06*	SCS II 50yr	7.20	169.40	170.16	170.21	170.40	0.012577	2.26	4.92	22.82	1.04
Reach2	1253.98*	Check	10.41	169.22	170.10	170.17	170.42	0.012175	2.61	6.48	22.97	1.07
Reach2	1253.98*	Regional	12.78	169.22	170.18	170.25	170.51	0.011258	2.72	8.37	25.28	1.05
Reach2	1253.98*	SCS II 100yr	8.01	169.22	170.01	170.08	170.31	0.013544	2.47	4.54	19.42	1.10
Reach2	1253.98*	SCS II 50yr	7.20	169.22	169.97	170.05	170.26	0.014367	2.43	3.88	17.07	1.12
Reach2	1253.9*	Check	10.41	169.04	169.92	170.02	170.29	0.013271	2.75	5.49	18.36	1.12
Reach2	1253.9*	Regional	12.78	169.04	170.01	170.10	170.39	0.011937	2.86	7.29	21.95	1.08
Reach2	1253.9*	SCS II 100yr	8.01	169.04	169.82	169.90	170.16	0.015608	2.63	3.83	13.20	1.17
Reach2	1253.9*	SCS II 50yr	7.20	169.04	169.78	169.86	170.11	0.016325	2.57	3.38	12.14	1.19
Reach2	1253.82*	Check	10.41	168.86	169.74	169.83	170.14	0.014800	2.91	4.80	13.84	1.18
Reach2	1253.82*	Regional	12.78	168.86	169.83	169.95	170.26	0.013075	3.01	6.29	17.20	1.14
Reach2	1253.82*	SCS II 100yr	8.01	168.86	169.64	169.73	170.00	0.015997	2.70	3.60	11.39	1.19
Reach2	1253.82*	SCS II 50yr	7.20	168.86	169.60	169.68	169.95	0.016502	2.62	3.21	10.40	1.20
Reach2	1253.74*	Check	10.41	168.68	169.56	169.67	169.99	0.015152	2.98	4.51	11.96	1.20
Reach2	1253.74*	Regional	12.78	168.68	169.65	169.76	170.12	0.014022	3.14	5.70	14.15	1.18
Reach2	1253.74*	SCS II 100yr	8.01	168.68	169.47	169.55	169.84	0.016027	2.75	3.45	10.11	1.20
Reach2	1253.74*	SCS II 50yr	7.20	168.68	169.43	169.51	169.78	0.016369	2.66	3.11	9.38	1.20
Reach2	1253.66*	Check	10.41	168.50	169.39	169.50	169.84	0.015276	3.04	4.30	10.76	1.21
Reach2	1253.66*	Regional	12.78	168.50	169.48	169.59	169.98	0.014378	3.22	5.35	12.49	1.19
Reach2	1253.66*	SCS II 100yr	8.01	168.50	169.29	169.38	169.68	0.016077	2.80	3.33	9.07	1.20
Reach2	1253.66*	SCS II 50yr	7.20	168.50	169.26	169.34	169.62	0.016361	2.70	3.02	8.53	1.20
Reach2	1253.57*	Check	10.41	168.32	169.22	169.33	169.69	0.015082	3.08	4.19	9.87	1.20
Reach2	1253.57*	Regional	12.78	168.32	169.32	169.44	169.84	0.014408	3.28	5.15	11.24	1.20
Reach2	1253.57*	SCS II 100yr	8.01	168.32	169.12	169.22	169.52	0.015793	2.83	3.27	8.42	1.20
Reach2	1253.57*	SCS II 50yr	7.20	168.32	169.09	169.17	169.46	0.016034	2.73	2.97	7.91	1.19
Reach2	1253.48*	Check	10.41	168.14	169.06	169.17	169.54	0.015034	3.14	4.07	9.11	1.20
Reach2	1253.48*	Regional	12.78	168.14	169.15	169.28	169.69	0.014461	3.35	4.96	10.19	1.21
Reach2	1253.48*	SCS II 100yr	8.01	168.14	168.95	169.05	169.37	0.015762	2.88	3.18	7.84	1.20
Reach2	1253.48*	SCS II 50yr	7.20	168.14	168.91	169.00	169.30	0.016014	2.78	2.90	7.39	1.20

HEC-RAS Plan: ReAlgn River: ShoreacresWest Reach: Reach2 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach2	1253.4*	Check	10.41	167.96	168.89	169.01	169.39	0.014786	3.18	3.99	8.47	1.20
Reach2	1253.4*	Regional	12.78	167.96	168.99	169.12	169.55	0.014168	3.39	4.87	9.49	1.20
Reach2	1253.4*	SCS II 100yr	8.01	167.96	168.79	168.88	169.21	0.015433	2.92	3.14	7.38	1.19
Reach2	1253.4*	SCS II 50yr	7.20	167.96	168.75	168.83	169.15	0.015671	2.81	2.86	6.98	1.19
Reach2	1253.32*	Check	10.41	167.78	168.73	168.85	169.25	0.014596	3.23	3.91	7.87	1.20
Reach2	1253.32*	Regional	12.78	167.78	168.83	168.97	169.41	0.014023	3.44	4.75	8.80	1.20
Reach2	1253.32*	SCS II 100yr	8.01	167.78	168.62	168.71	169.06	0.015310	2.96	3.08	6.89	1.19
Reach2	1253.32*	SCS II 50yr	7.20	167.78	168.58	168.67	168.99	0.015565	2.86	2.81	6.55	1.19
Reach2	1253.23*	Check	10.41	167.60	168.58	168.70	169.10	0.014167	3.26	3.87	7.46	1.18
Reach2	1253.23*	Regional	12.78	167.60	168.68	168.81	169.27	0.013578	3.48	4.71	8.32	1.18
Reach2	1253.23*	SCS II 100yr	8.01	167.60	168.46	168.55	168.91	0.014936	3.00	3.05	6.53	1.18
Reach2	1253.23*	SCS II 50yr	7.20	167.60	168.42	168.50	168.84	0.015154	2.89	2.78	6.20	1.18
Reach2	1253.146	Check	10.41	167.42	168.42	168.54	168.96	0.013906	3.31	3.82	7.03	1.18
Reach2	1253.146	Regional	12.78	167.42	168.53	168.66	169.14	0.013271	3.52	4.65	7.81	1.17
Reach2	1253.146	SCS II 100yr	8.01	167.42	168.30	168.39	168.76	0.014684	3.05	3.01	6.17	1.18
Reach2	1253.146	SCS II 50yr	7.20	167.42	168.26	168.34	168.69	0.014991	2.94	2.74	5.86	1.18
Reach2	1253.06*	Check	10.41	167.17	168.09	168.29	168.79	0.020570	3.75	3.23	6.31	1.41
Reach2	1253.06*	Regional	12.78	167.17	168.20	168.42	168.97	0.019266	3.97	3.93	6.99	1.39
Reach2	1253.06*	SCS II 100yr	8.01	167.17	167.98	168.15	168.58	0.022233	3.47	2.54	5.56	1.42
Reach2	1253.06*	SCS II 50yr	7.20	167.17	167.93	168.10	168.50	0.022939	3.36	2.31	5.28	1.43
Reach2	1252.97*	Check	10.41	166.92	167.82	168.05	168.58	0.023274	3.90	3.06	6.08	1.49
Reach2	1252.97*	Regional	12.78	166.92	167.92	168.18	168.77	0.022135	4.16	3.69	6.70	1.48
Reach2	1252.97*	SCS II 100yr	8.01	166.92	167.71	167.90	168.36	0.024524	3.58	2.44	5.40	1.49
Reach2	1252.97*	SCS II 50yr	7.20	166.92	167.68	167.85	168.28	0.024953	3.46	2.24	5.16	1.48
Reach2	1252.88*	Check	10.41	166.67	167.57	167.81	168.36	0.024454	3.97	3.00	5.99	1.52
Reach2	1252.88*	Regional	12.78	166.67	167.66	167.93	168.56	0.023624	4.25	3.59	6.55	1.53
Reach2	1252.88*	SCS II 100yr	8.01	166.67	167.46	167.66	168.13	0.025263	3.62	2.41	5.34	1.51
Reach2	1252.88*	SCS II 50yr	7.20	166.67	167.43	167.61	168.04	0.025525	3.49	2.22	5.12	1.50
Reach2	1252.79*	Check	10.41	166.42	167.31	167.56	168.12	0.025371	4.02	2.95	5.92	1.55
Reach2	1252.79*	Regional	12.78	166.42	167.41	167.69	168.33	0.024722	4.32	3.52	6.47	1.56
Reach2	1252.79*	SCS II 100yr	8.01	166.42	167.21	167.41	167.89	0.025846	3.65	2.39	5.31	1.52
Reach2	1252.79*	SCS II 50yr	7.20	166.42	167.18	167.36	167.80	0.026001	3.51	2.20	5.10	1.51
Reach2	1252.7*	Check	10.41	166.17	167.07	167.32	167.88	0.025583	4.04	2.95	5.91	1.56
Reach2	1252.7*	Regional	12.78	166.17	167.16	167.44	168.09	0.025129	4.35	3.50	6.46	1.58
Reach2	1252.7*	SCS II 100yr	8.01	166.17	166.97	167.17	167.64	0.025881	3.66	2.39	5.30	1.53
Reach2	1252.7*	SCS II 50yr	7.20	166.17	166.93	167.12	167.56	0.025901	3.51	2.21	5.09	1.51
Reach2	1252.61*	Check	10.41	165.93	166.82	167.08	167.64	0.025713	4.05	2.95	5.94	1.56
Reach2	1252.61*	Regional	12.78	165.93	166.91	167.20	167.86	0.025439	4.37	3.50	6.47	1.58
Reach2	1252.61*	SCS II 100yr	8.01	165.93	166.73	166.93	167.40	0.025863	3.67	2.40	5.35	1.53
Reach2	1252.61*	SCS II 50yr	7.20	165.93	166.69	166.87	167.32	0.025864	3.52	2.21	5.14	1.51
Reach2	1252.52*	Check	10.41	165.68	166.58	166.83	167.40	0.025908	4.07	2.95	5.97	1.57
Reach2	1252.52*	Regional	12.78	165.68	166.66	166.96	167.62	0.025723	4.39	3.50	6.49	1.59
Reach2	1252.52*	SCS II 100yr	8.01	165.68	166.48	166.68	167.16	0.026019	3.68	2.40	5.38	1.53
Reach2	1252.52*	SCS II 50yr	7.20	165.68	166.44	166.63	167.07	0.026038	3.53	2.21	5.16	1.52
Reach2	1252.43*	Check	10.41	165.43	166.33	166.58	167.16	0.026065	4.08	2.96	5.99	1.57
Reach2	1252.43*	Regional	12.78	165.43	166.42	166.71	167.37	0.025950	4.40	3.50	6.50	1.60
Reach2	1252.43*	SCS II 100yr	8.01	165.43	166.23	166.44	166.92	0.026143	3.69	2.40	5.39	1.53
Reach2	1252.43*	SCS II 50yr	7.20	165.43	166.20	166.38	166.83	0.026190	3.54	2.21	5.17	1.52
Reach2	1252.34*	Check	10.41	165.18	166.09	166.35	166.92	0.025947	4.08	2.98	6.07	1.57
Reach2	1252.34*	Regional	12.78	165.18	166.18	166.47	167.13	0.025911	4.41	3.53	6.61	1.60
Reach2	1252.34*	SCS II 100yr	8.01	165.18	165.99	166.20	166.67	0.025856	3.68	2.43	5.48	1.53
Reach2	1252.34*	SCS II 50yr	7.20	165.18	165.96	166.14	166.59	0.025826	3.53	2.24	5.27	1.51
Reach2	1252.24*	Check	10.41	164.93	165.84	166.10	166.67	0.026078	4.09	3.00	6.12	1.57
Reach2	1252.24*	Regional	12.78	164.93	165.93	166.23	166.89	0.026064	4.42	3.54	6.66	1.60
Reach2	1252.24*	SCS II 100yr	8.01	164.93	165.75	165.95	166.43	0.026048	3.69	2.43	5.52	1.53
Reach2	1252.24*	SCS II 50yr	7.20	164.93	165.71	165.90	166.34	0.026052	3.54	2.24	5.29	1.52
Reach2	1252.146	Check	10.41	164.68	165.60	165.86	166.43	0.026011	4.09	3.02	6.21	1.57
Reach2	1252.146	Regional	12.78	164.68	165.69	165.98	166.65	0.026106	4.42	3.58	6.76	1.60
Reach2	1252.146	SCS II 100yr	8.01	164.68	165.50	165.71	166.19	0.026054	3.70	2.45	5.58	1.53
Reach2	1252.146	SCS II 50yr	7.20	164.68	165.47	165.65	166.10	0.026045	3.55	2.25	5.36	1.51
Reach2	1251.98*	Check	10.41	164.47	165.43	165.65	166.17	0.021425	3.88	3.23	6.25	1.44

HEC-RAS Plan: ReAlign River: ShoreacresWest Reach: Reach2 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach2	1251.98*	Regional	12.78	164.47	165.52	165.78	166.39	0.021784	4.21	3.80	6.79	1.48
Reach2	1251.98*	SCS II 100yr	8.01	164.47	165.33	165.50	165.94	0.021012	3.48	2.63	5.61	1.39
Reach2	1251.98*	SCS II 50yr	7.20	164.47	165.29	165.45	165.85	0.020820	3.33	2.43	5.40	1.37
Reach2	1251.81*	Check	10.41	164.26	165.22	165.44	165.97	0.020998	3.87	3.20	6.03	1.42
Reach2	1251.81*	Regional	12.78	164.26	165.32	165.57	166.17	0.020865	4.18	3.80	6.58	1.45
Reach2	1251.81*	SCS II 100yr	8.01	164.26	165.12	165.29	165.73	0.020940	3.50	2.60	5.43	1.39
Reach2	1251.81*	SCS II 50yr	7.20	164.26	165.08	165.23	165.65	0.021000	3.36	2.39	5.21	1.37
Reach2	1251.64*	Check	10.41	164.04	165.01	165.23	165.76	0.020814	3.88	3.16	5.82	1.42
Reach2	1251.64*	Regional	12.78	164.04	165.11	165.37	165.97	0.020632	4.19	3.75	6.33	1.44
Reach2	1251.64*	SCS II 100yr	8.01	164.04	164.91	165.08	165.52	0.020986	3.52	2.56	5.24	1.39
Reach2	1251.64*	SCS II 50yr	7.20	164.04	164.86	165.02	165.44	0.021100	3.38	2.36	5.02	1.38
Reach2	1251.47*	Check	10.41	163.83	164.81	165.02	165.56	0.020621	3.89	3.13	5.60	1.41
Reach2	1251.47*	Regional	12.78	163.83	164.91	165.16	165.77	0.020356	4.19	3.72	6.10	1.43
Reach2	1251.47*	SCS II 100yr	8.01	163.83	164.69	164.87	165.32	0.020905	3.53	2.54	5.06	1.38
Reach2	1251.47*	SCS II 50yr	7.20	163.83	164.65	164.81	165.23	0.021027	3.40	2.33	4.86	1.37
Reach2	1251.31*	Check	10.41	163.62	164.60	164.81	165.36	0.020503	3.90	3.10	5.43	1.41
Reach2	1251.31*	Regional	12.78	163.62	164.70	164.95	165.57	0.020222	4.21	3.68	5.89	1.43
Reach2	1251.31*	SCS II 100yr	8.01	163.62	164.48	164.66	165.12	0.020818	3.55	2.51	4.91	1.38
Reach2	1251.31*	SCS II 50yr	7.20	163.62	164.44	164.60	165.03	0.020934	3.41	2.31	4.73	1.37
Reach2	1251.146	Check	10.41	163.41	164.39	164.61	165.16	0.020409	3.92	3.06	5.23	1.40
Reach2	1251.146	Regional	12.78	163.41	164.49	164.75	165.37	0.020069	4.22	3.63	5.68	1.42
Reach2	1251.146	SCS II 100yr	8.01	163.41	164.27	164.45	164.91	0.020785	3.56	2.48	4.73	1.38
Reach2	1251.146	SCS II 50yr	7.20	163.41	164.23	164.39	164.82	0.020928	3.42	2.29	4.55	1.37
Reach2	1251.02*	Check	10.41	163.26	164.24	164.43	164.95	0.018388	3.75	3.20	5.43	1.34
Reach2	1251.02*	Regional	12.78	163.26	164.34	164.57	165.17	0.018851	4.09	3.74	5.91	1.38
Reach2	1251.02*	SCS II 100yr	8.01	163.26	164.14	164.27	164.70	0.017422	3.34	2.67	4.98	1.27
Reach2	1251.02*	SCS II 50yr	7.20	163.26	164.10	164.22	164.61	0.016995	3.18	2.49	4.82	1.24
Reach2	1250.9*	Check	10.41	163.10	164.07	164.26	164.76	0.018499	3.72	3.21	5.54	1.34
Reach2	1250.9*	Regional	12.78	163.10	164.17	164.40	164.98	0.018841	4.05	3.76	6.09	1.38
Reach2	1250.9*	SCS II 100yr	8.01	163.10	163.96	164.10	164.52	0.018116	3.34	2.65	5.05	1.30
Reach2	1250.9*	SCS II 50yr	7.20	163.10	163.93	164.05	164.44	0.017950	3.19	2.45	4.88	1.28
Reach2	1250.77*	Check	10.41	162.95	163.91	164.09	164.58	0.018142	3.66	3.25	5.68	1.33
Reach2	1250.77*	Regional	12.78	162.95	164.00	164.22	164.79	0.018480	3.98	3.81	6.37	1.37
Reach2	1250.77*	SCS II 100yr	8.01	162.95	163.80	163.93	164.34	0.017572	3.27	2.69	5.19	1.28
Reach2	1250.77*	SCS II 50yr	7.20	162.95	163.77	163.88	164.26	0.017403	3.13	2.50	5.02	1.26
Reach2	1250.64*	Check	10.41	162.80	163.74	163.92	164.39	0.017929	3.60	3.30	5.92	1.32
Reach2	1250.64*	Regional	12.78	162.80	163.83	164.05	164.60	0.018378	3.93	3.86	6.67	1.36
Reach2	1250.64*	SCS II 100yr	8.01	162.80	163.64	163.76	164.17	0.017553	3.23	2.72	5.33	1.27
Reach2	1250.64*	SCS II 50yr	7.20	162.80	163.60	163.71	164.08	0.017370	3.09	2.52	5.15	1.25
Reach2	1250.52*	Check	10.41	162.64	163.58	163.75	164.21	0.017920	3.56	3.34	6.25	1.32
Reach2	1250.52*	Regional	12.78	162.64	163.66	163.87	164.41	0.018366	3.88	3.92	7.02	1.36
Reach2	1250.52*	SCS II 100yr	8.01	162.64	163.47	163.60	163.99	0.017588	3.20	2.74	5.51	1.27
Reach2	1250.52*	SCS II 50yr	7.20	162.64	163.44	163.54	163.91	0.017471	3.06	2.54	5.31	1.26
Reach2	1250.4*	Check	10.41	162.49	163.41	163.58	164.03	0.017711	3.51	3.41	6.71	1.31
Reach2	1250.4*	Regional	12.78	162.49	163.50	163.72	164.23	0.018234	3.83	4.01	7.54	1.35
Reach2	1250.4*	SCS II 100yr	8.01	162.49	163.32	163.44	163.81	0.017023	3.13	2.81	5.75	1.25
Reach2	1250.4*	SCS II 50yr	7.20	162.49	163.28	163.38	163.73	0.016907	3.00	2.60	5.50	1.24
Reach2	1250.27*	Check	10.41	162.34	163.24	163.41	163.85	0.018046	3.49	3.46	7.18	1.32
Reach2	1250.27*	Regional	12.78	162.34	163.33	163.53	164.04	0.018498	3.80	4.09	8.04	1.36
Reach2	1250.27*	SCS II 100yr	8.01	162.34	163.15	163.27	163.64	0.017484	3.12	2.82	6.27	1.27
Reach2	1250.27*	SCS II 50yr	7.20	162.34	163.11	163.22	163.56	0.017540	3.00	2.59	5.69	1.25
Reach2	1250.146	Check	10.41	162.19	163.08	163.25	163.67	0.018061	3.45	3.56	7.79	1.31
Reach2	1250.146	Regional	12.78	162.19	163.16	163.34	163.85	0.018546	3.76	4.23	8.69	1.36
Reach2	1250.146	SCS II 100yr	8.01	162.19	162.99	163.11	163.46	0.017395	3.08	2.90	6.81	1.26
Reach2	1250.146	SCS II 50yr	7.20	162.19	162.96	163.06	163.39	0.016825	2.93	2.69	6.47	1.23
Reach2	1151.23*	Check	10.41	162.12	162.93	163.07	163.47	0.021874	3.27	3.26	6.80	1.40
Reach2	1151.23*	Regional	12.78	162.12	162.99	163.18	163.65	0.023267	3.61	3.69	7.49	1.47
Reach2	1151.23*	SCS II 100yr	8.01	162.12	162.86	162.96	163.27	0.019093	2.83	2.86	6.37	1.28
Reach2	1151.23*	SCS II 50yr	7.20	162.12	162.84	162.91	163.20	0.018155	2.67	2.71	6.20	1.24
Reach2	1052.32*	Check	10.41	162.05	162.93	162.95	163.25	0.021248	2.50	4.18	7.79	1.05
Reach2	1052.32*	Regional	12.78	162.05	162.95	163.04	163.40	0.016515	2.98	4.33	7.92	1.23
Reach2	1052.32*	SCS II 100yr	8.01	162.05	162.83	162.85	163.11	0.013349	2.33	3.43	7.06	1.07

HEC-RAS Plan: ReAlgn River: ShoreacresWest Reach: Reach2 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach2	1052.32*	SCS II 50yr	7.20	162.05	162.79	162.82	163.06	0.013774	2.29	3.15	6.83	1.08
Reach2	953.41*	Check	10.41	161.98	162.85	162.86	163.13	0.011449	2.33	4.46	8.20	1.01
Reach2	953.41*	Regional	12.78	161.98	162.93	162.94	163.25	0.012020	2.52	5.08	8.63	1.05
Reach2	953.41*	SCS II 100yr	8.01	161.98	162.74	162.75	163.00	0.012789	2.25	3.56	7.55	1.04
Reach2	953.41*	SCS II 50yr	7.20	161.98	162.70	162.72	162.95	0.013407	2.22	3.25	7.28	1.06
Reach2	854.49*	Check	10.41	161.91	162.75	162.76	163.02	0.011867	2.33	4.47	8.50	1.02
Reach2	854.49*	Regional	12.78	161.91	162.83	162.84	163.14	0.011478	2.43	5.25	9.09	1.02
Reach2	854.49*	SCS II 100yr	8.01	161.91	162.64	162.65	162.89	0.012714	2.22	3.60	7.73	1.04
Reach2	854.49*	SCS II 50yr	7.20	161.91	162.60	162.61	162.84	0.013352	2.20	3.27	7.42	1.06
Reach2	755.57*	Check	10.41	161.84	162.65	162.65	162.91	0.011504	2.29	4.54	8.64	1.01
Reach2	755.57*	Regional	12.78	161.84	162.72	162.74	163.03	0.011977	2.46	5.20	9.16	1.04
Reach2	755.57*	SCS II 100yr	8.01	161.84	162.54	162.55	162.78	0.012534	2.20	3.64	7.87	1.03
Reach2	755.57*	SCS II 50yr	7.20	161.84	162.49	162.51	162.73	0.013177	2.17	3.31	7.56	1.05
Reach2	656.66*	Check	10.41	161.77	162.54	162.54	162.81	0.011738	2.29	4.54	8.77	1.02
Reach2	656.66*	Regional	12.78	161.77	162.62	162.63	162.92	0.011695	2.42	5.28	9.35	1.03
Reach2	656.66*	SCS II 100yr	8.01	161.77	162.43	162.44	162.68	0.012645	2.19	3.65	7.99	1.04
Reach2	656.66*	SCS II 50yr	7.20	161.77	162.39	162.41	162.63	0.013333	2.17	3.32	7.67	1.05
Reach2	557.74*	Check	10.41	161.70	162.43	162.44	162.70	0.011761	2.28	4.57	8.92	1.02
Reach2	557.74*	Regional	12.78	161.70	162.52	162.53	162.81	0.011550	2.40	5.33	9.53	1.02
Reach2	557.74*	SCS II 100yr	8.01	161.70	162.33	162.34	162.57	0.012806	2.19	3.67	8.14	1.04
Reach2	557.74*	SCS II 50yr	7.20	161.70	162.29	162.31	162.53	0.013580	2.17	3.32	7.83	1.06
Reach2	458.83*	Check	10.41	161.63	162.36	162.34	162.59	0.010205	2.15	4.84	9.27	0.95
Reach2	458.83*	Regional	12.78	161.63	162.44	162.42	162.70	0.010249	2.28	5.60	9.84	0.97
Reach2	458.83*	SCS II 100yr	8.01	161.63	162.27	162.24	162.47	0.010147	1.99	4.02	8.62	0.93
Reach2	458.83*	SCS II 50yr	7.20	161.63	162.23	162.20	162.42	0.010120	1.93	3.73	8.38	0.92
Reach2	359.92*	Check	10.41	161.56	162.30	162.24	162.50	0.008359	1.99	5.24	9.73	0.87
Reach2	359.92*	Regional	12.78	161.56	162.38	162.32	162.60	0.008349	2.11	6.07	10.32	0.88
Reach2	359.92*	SCS II 100yr	8.01	161.56	162.20	162.14	162.37	0.008383	1.85	4.34	9.06	0.85
Reach2	359.92*	SCS II 50yr	7.20	161.56	162.16	162.33	162.33	0.008410	1.79	4.02	8.81	0.85
Reach2	261	Check	10.41	161.49	162.26	162.42	162.42	0.006053	1.76	5.92	10.39	0.74
Reach2	261	Regional	12.78	161.49	162.34	162.52	162.52	0.006107	1.87	6.83	10.98	0.76
Reach2	261	SCS II 100yr	8.01	161.49	162.16	162.30	162.30	0.005990	1.62	4.93	9.70	0.73
Reach2	261	SCS II 50yr	7.20	161.49	162.12	162.25	162.25	0.005985	1.57	4.58	9.44	0.72
Reach2	260.89*	Check	10.41	161.41	162.20	162.36	162.36	0.006411	1.79	5.82	10.38	0.76
Reach2	260.89*	Regional	12.78	161.41	162.28	162.46	162.46	0.006521	1.91	6.70	11.01	0.78
Reach2	260.89*	SCS II 100yr	8.01	161.41	162.10	162.24	162.24	0.006292	1.65	4.85	9.66	0.74
Reach2	260.89*	SCS II 50yr	7.20	161.41	162.06	162.19	162.19	0.006275	1.60	4.50	9.39	0.74
Reach2	260.78*	Check	10.41	161.33	162.12	162.29	162.29	0.006976	1.83	5.68	10.43	0.79
Reach2	260.78*	Regional	12.78	161.33	162.20	162.40	162.40	0.007116	1.95	6.54	11.08	0.81
Reach2	260.78*	SCS II 100yr	8.01	161.33	162.03	162.18	162.18	0.006823	1.69	4.74	9.68	0.77
Reach2	260.78*	SCS II 50yr	7.20	161.33	161.99	162.13	162.13	0.006769	1.64	4.40	9.39	0.76
Reach2	260.67*	Check	10.41	161.25	162.05	162.23	162.23	0.007579	1.87	5.57	10.60	0.82
Reach2	260.67*	Regional	12.78	161.25	162.13	162.33	162.33	0.007531	1.97	6.48	11.32	0.83
Reach2	260.67*	SCS II 100yr	8.01	161.25	161.96	162.11	162.11	0.007336	1.72	4.65	9.77	0.80
Reach2	260.67*	SCS II 50yr	7.20	161.25	161.92	162.07	162.07	0.007233	1.66	4.32	9.46	0.79
Reach2	260.56*	Check	10.41	161.17	161.95	162.15	162.15	0.009035	1.96	5.32	10.81	0.89
Reach2	260.56*	Regional	12.78	161.17	162.07	162.26	162.26	0.007502	1.93	6.63	11.97	0.83
Reach2	260.56*	SCS II 100yr	8.01	161.17	161.87	162.03	162.03	0.008506	1.79	4.48	9.96	0.85
Reach2	260.56*	SCS II 50yr	7.20	161.17	161.84	161.99	161.99	0.008266	1.72	4.18	9.65	0.83
Reach2	260.45*	Check	10.41	161.09	161.87	161.83	162.06	0.009730	1.96	5.32	11.47	0.92
Reach2	260.45*	Regional	12.78	161.09	162.03	162.18	162.18	0.006050	1.74	7.37	14.34	0.74
Reach2	260.45*	SCS II 100yr	8.01	161.09	161.79	161.74	161.95	0.008997	1.78	4.51	10.59	0.87
Reach2	260.45*	SCS II 50yr	7.20	161.09	161.76	161.91	161.91	0.008654	1.70	4.23	10.28	0.85
Reach2	260.34*	Check	10.41	161.01	161.82	161.74	161.97	0.007287	1.73	6.28	17.24	0.80
Reach2	260.34*	Regional	12.78	161.01	162.03	162.13	162.13	0.003125	1.42	10.93	26.16	0.55
Reach2	260.34*	SCS II 100yr	8.01	161.01	161.66	161.66	161.85	0.012369	1.92	4.16	11.03	1.00
Reach2	260.34*	SCS II 50yr	7.20	161.01	161.63	161.63	161.81	0.012540	1.89	3.82	10.55	1.00
Reach2	260.23*	Check	10.41	160.93	161.83	161.91	161.91	0.002611	1.25	11.68	27.80	0.50
Reach2	260.23*	Regional	12.78	160.93	162.04	162.10	162.10	0.001394	1.10	17.80	31.15	0.38
Reach2	260.23*	SCS II 100yr	8.01	160.93	161.59	161.56	161.73	0.008606	1.66	5.62	20.89	0.84
Reach2	260.23*	SCS II 50yr	7.20	160.93	161.52	161.53	161.69	0.013023	1.87	4.18	16.78	1.01

HEC-RAS Plan: ReAlgn River: ShoreacresWest Reach: Reach2 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach2	260.11*	Check	10.41	160.85	161.85		161.88	0.001042	0.93	19.25	32.55	0.33
Reach2	260.11*	Regional	12.78	160.85	162.05		162.08	0.000699	0.88	26.14	36.15	0.28
Reach2	260.11*	SCS II 100yr	8.01	160.85	161.62		161.67	0.002002	1.04	12.37	28.98	0.43
Reach2	260.11*	SCS II 50yr	7.20	160.85	161.54	161.38	161.59	0.002799	1.11	10.07	27.24	0.50
Reach2	260	Check	10.41	160.78	161.85	161.23	161.87	0.000487	0.72	28.34	37.76	0.23
Reach2	260	Regional	12.78	160.78	162.05	161.28	162.07	0.000379	0.72	36.43	42.63	0.21
Reach2	260	SCS II 100yr	8.01	160.78	161.63	161.17	161.65	0.000704	0.73	20.54	33.55	0.27
Reach2	260	SCS II 50yr	7.20	160.78	161.55	161.15	161.57	0.000838	0.74	17.91	32.40	0.29
Reach2	259.63	Culvert										
Reach2	259	Check	10.41	160.30	160.78	160.78	160.92	0.010064	1.88	11.23	44.08	0.92
Reach2	259	Regional	12.78	160.30	160.83	160.83	160.98	0.010089	2.01	13.21	44.69	0.94
Reach2	259	SCS II 100yr	8.01	160.30	160.70	160.70	160.85	0.013993	1.91	7.70	36.21	1.05
Reach2	259	SCS II 50yr	7.20	160.30	160.70	160.70	160.82	0.011409	1.73	7.67	36.17	0.95
Reach2	258	Check	9.60	156.63	158.48	157.28	158.49	0.000126	0.52	24.52	54.78	0.13
Reach2	258	Regional	12.00	156.63	158.80	157.34	158.82	0.000106	0.54	29.72	59.96	0.12
Reach2	258	SCS II 100yr	7.38	156.63	158.20	157.21	158.21	0.000140	0.48	20.04	50.50	0.13
Reach2	258	SCS II 50yr	6.63	156.63	158.10	157.18	158.11	0.000146	0.47	18.48	47.93	0.13
Reach2	257.3098	Culvert										
Reach2	257	Check	9.60	156.32	157.61	156.97	157.65	0.000605	0.87	12.05	15.08	0.26
Reach2	257	Regional	12.00	156.32	157.93	157.04	157.96	0.000400	0.84	15.78	16.98	0.22
Reach2	257	SCS II 100yr	7.38	156.32	157.30	156.90	157.34	0.001107	0.94	8.40	13.25	0.34
Reach2	257	SCS II 50yr	6.63	156.32	157.19	156.87	157.24	0.001488	0.99	7.11	12.52	0.38
Reach2	256.83*	Check	9.60	156.26	157.61		157.64	0.000473	0.80	14.21	15.59	0.24
Reach2	256.83*	Regional	12.00	156.26	157.93		157.96	0.000320	0.78	19.50	17.46	0.20
Reach2	256.83*	SCS II 100yr	7.38	156.26	157.30		157.33	0.000814	0.86	9.62	13.63	0.29
Reach2	256.83*	SCS II 50yr	6.63	156.26	157.18		157.22	0.001056	0.89	8.14	12.98	0.33
Reach2	256.66*	Check	9.60	156.20	157.61		157.64	0.000382	0.75	15.46	16.07	0.21
Reach2	256.66*	Regional	12.00	156.20	157.93		157.96	0.000269	0.73	20.94	18.11	0.19
Reach2	256.66*	SCS II 100yr	7.38	156.20	157.29		157.32	0.000613	0.78	10.75	14.05	0.26
Reach2	256.66*	SCS II 50yr	6.63	156.20	157.18		157.21	0.000768	0.80	9.20	13.41	0.28
Reach2	256.5*	Check	9.60	156.15	157.61		157.63	0.000308	0.70	16.78	16.26	0.20
Reach2	256.5*	Regional	12.00	156.15	157.93		157.95	0.000227	0.70	22.48	19.01	0.17
Reach2	256.5*	SCS II 100yr	7.38	156.15	157.29		157.32	0.000466	0.72	11.96	14.43	0.23
Reach2	256.5*	SCS II 50yr	6.63	156.15	157.18		157.21	0.000565	0.73	10.36	13.86	0.25
Reach2	256.3*	Check	9.60	156.09	157.61		157.63	0.000253	0.66	18.17	16.44	0.18
Reach2	256.3*	Regional	12.00	156.09	157.93		157.95	0.000195	0.66	24.12	21.00	0.16
Reach2	256.3*	SCS II 100yr	7.38	156.09	157.29		157.31	0.000362	0.66	13.22	14.83	0.20
Reach2	256.3*	SCS II 50yr	6.63	156.09	157.18		157.20	0.000428	0.67	11.57	14.27	0.22
Reach2	256.2*	Check	9.60	156.03	157.61		157.63	0.000209	0.62	19.61	16.73	0.16
Reach2	256.2*	Regional	12.00	156.03	157.93		157.95	0.000168	0.63	26.67	26.46	0.15
Reach2	256.2*	SCS II 100yr	7.38	156.03	157.29		157.31	0.000285	0.61	14.56	15.20	0.18
Reach2	256.2*	SCS II 50yr	6.63	156.03	157.18		157.20	0.000329	0.61	12.87	14.68	0.19
Reach2	256	Check	9.60	155.97	157.61		157.62	0.000174	0.58	21.30	21.98	0.15
Reach2	256	Regional	12.00	155.97	157.93		157.95	0.000141	0.60	29.80	27.78	0.14
Reach2	256	SCS II 100yr	7.38	155.97	157.29		157.31	0.000227	0.57	15.98	15.60	0.17
Reach2	256	SCS II 50yr	6.63	155.97	157.18		157.19	0.000256	0.57	14.23	15.10	0.17
Reach2	255.9*	Check	9.60	155.87	157.61		157.62	0.000158	0.58	21.28	17.37	0.14
Reach2	255.9*	Regional	12.00	155.87	157.93		157.94	0.000132	0.60	28.97	25.64	0.14
Reach2	255.9*	SCS II 100yr	7.38	155.87	157.29		157.30	0.000195	0.56	16.24	15.15	0.15
Reach2	255.9*	SCS II 50yr	6.63	155.87	157.18		157.19	0.000214	0.55	14.55	14.64	0.16
Reach2	255.8*	Check	9.60	155.76	157.60		157.62	0.000143	0.57	21.47	17.18	0.14
Reach2	255.8*	Regional	12.00	155.76	157.93		157.94	0.000124	0.60	28.19	23.82	0.13
Reach2	255.8*	SCS II 100yr	7.38	155.76	157.29		157.30	0.000169	0.54	16.48	14.72	0.15
Reach2	255.8*	SCS II 50yr	6.63	155.76	157.17		157.19	0.000182	0.53	14.84	14.21	0.15
Reach2	255.7*	Check	9.60	155.66	157.60		157.62	0.000132	0.57	21.54	16.44	0.13
Reach2	255.7*	Regional	12.00	155.66	157.92		157.94	0.000119	0.60	27.50	21.98	0.13
Reach2	255.7*	SCS II 100yr	7.38	155.66	157.29		157.30	0.000151	0.53	16.67	14.32	0.14
Reach2	255.7*	SCS II 50yr	6.63	155.66	157.17		157.19	0.000160	0.52	15.08	13.80	0.14
Reach2	255.6	Check	9.60	155.55	157.60		157.62	0.000124	0.57	21.46	15.26	0.13
Reach2	255.6	Regional	12.00	155.55	157.92		157.94	0.000113	0.60	26.65	17.98	0.13
Reach2	255.6	SCS II 100yr	7.38	155.55	157.29		157.30	0.000138	0.53	16.84	13.90	0.13

HEC-RAS Plan: ReAlgn River: ShoreacresWest Reach: Reach2 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach2	255.6	SCS II 50yr	6.63	155.55	157.17		157.19	0.000143	0.51	15.29	13.40	0.13
Reach2	255.558*	Check	9.60	155.54	157.59		157.61	0.000137	0.59	21.13	15.54	0.14
Reach2	255.558*	Regional	12.00	155.54	157.92		157.93	0.000123	0.63	26.37	17.01	0.13
Reach2	255.558*	SCS II 100yr	7.38	155.54	157.28		157.29	0.000153	0.56	16.43	14.05	0.14
Reach2	255.558*	SCS II 50yr	6.63	155.54	157.16		157.18	0.000160	0.54	14.86	13.50	0.14
Reach2	255.466*	Check	9.60	155.53	157.59		157.61	0.000150	0.62	20.93	15.90	0.14
Reach2	255.466*	Regional	12.00	155.53	157.91		157.93	0.000134	0.65	26.31	17.52	0.14
Reach2	255.466*	SCS II 100yr	7.38	155.53	157.27		157.29	0.000169	0.58	16.14	14.22	0.15
Reach2	255.466*	SCS II 50yr	6.63	155.53	157.16		157.17	0.000177	0.57	14.55	13.64	0.15
Reach2	255.374*	Check	9.60	155.51	157.59		157.61	0.000164	0.65	20.80	16.36	0.15
Reach2	255.374*	Regional	12.00	155.51	157.91		157.93	0.000146	0.68	26.37	18.58	0.15
Reach2	255.374*	SCS II 100yr	7.38	155.51	157.27		157.29	0.000186	0.61	15.89	14.49	0.16
Reach2	255.374*	SCS II 50yr	6.63	155.51	157.15		157.17	0.000196	0.60	14.27	13.82	0.16
Reach2	255.282*	Check	9.60	155.50	157.58		157.61	0.000181	0.68	20.72	16.96	0.16
Reach2	255.282*	Regional	12.00	155.50	157.91		157.93	0.000161	0.71	26.78	20.82	0.15
Reach2	255.282*	SCS II 100yr	7.38	155.50	157.27		157.29	0.000208	0.64	15.65	14.86	0.16
Reach2	255.282*	SCS II 50yr	6.63	155.50	157.15		157.17	0.000220	0.63	13.99	14.09	0.17
Reach2	255.19*	Check	9.60	155.49	157.58		157.60	0.000203	0.72	20.90	18.86	0.17
Reach2	255.19*	Regional	12.00	155.49	157.90		157.93	0.000175	0.74	27.64	22.77	0.16
Reach2	255.19*	SCS II 100yr	7.38	155.49	157.26		157.28	0.000234	0.68	15.49	15.44	0.17
Reach2	255.19*	SCS II 50yr	6.63	155.49	157.15		157.17	0.000248	0.66	13.77	14.54	0.18
Reach2	255.098*	Check	9.60	155.47	157.58		157.60	0.000224	0.75	21.49	20.80	0.17
Reach2	255.098*	Regional	12.00	155.47	157.90		157.93	0.000189	0.76	28.83	24.40	0.16
Reach2	255.098*	SCS II 100yr	7.38	155.47	157.26		157.28	0.000266	0.72	15.45	16.84	0.18
Reach2	255.098*	SCS II 50yr	6.63	155.47	157.14		157.17	0.000284	0.71	13.61	15.40	0.19
Reach2	255	Check	9.60	155.46	157.56	156.38	157.59	0.000252	0.78	22.19	22.23	0.18
Reach2	255	Regional	12.00	155.46	157.89	156.48	157.92	0.000209	0.79	30.13	26.79	0.17
Reach2	255	SCS II 100yr	7.38	155.46	157.24	156.27	157.26	0.000312	0.77	15.56	18.57	0.20
Reach2	255	SCS II 50yr	6.63	155.46	157.12	156.23	157.15	0.000339	0.76	13.49	17.13	0.20
Reach2	254.8719	Culvert										
Reach2	194.3592	Check	9.60	155.32	156.09	156.00	156.25	0.005736	1.80	6.66	16.35	0.73
Reach2	194.3592	Regional	12.00	155.32	156.14	156.08	156.34	0.006657	2.05	7.55	17.11	0.80
Reach2	194.3592	SCS II 100yr	7.38	155.32	156.03		156.15	0.004792	1.54	5.76	15.28	0.66
Reach2	194.3592	SCS II 50yr	6.63	155.32	156.01		156.11	0.004466	1.45	5.43	14.90	0.63
Reach2	193.3592	Check	9.60	155.24	156.10		156.19	0.002559	1.31	9.32	18.75	0.50
Reach2	193.3592	Regional	12.00	155.24	156.16		156.27	0.002952	1.49	10.48	19.13	0.55
Reach2	193.3592	SCS II 100yr	7.38	155.24	156.04		156.10	0.002126	1.12	8.15	18.13	0.45
Reach2	193.3592	SCS II 50yr	6.63	155.24	156.01		156.07	0.001969	1.05	7.72	17.83	0.43
Reach2	192.3592	Check	9.60	155.42	156.00		156.08	0.005798	1.46	8.71	23.90	0.70
Reach2	192.3592	Regional	12.00	155.42	156.06		156.16	0.005442	1.55	10.32	24.48	0.70
Reach2	192.3592	SCS II 100yr	7.38	155.42	155.93		156.01	0.006152	1.35	7.16	23.33	0.71
Reach2	192.3592	SCS II 50yr	6.63	155.42	155.91	155.84	155.98	0.006289	1.30	6.62	23.12	0.71
Reach2	100.0000	Check	9.60	154.46	155.07	155.07	155.31	0.011245	2.15	4.69	10.51	0.99
Reach2	100.0000	Regional	12.00	154.46	155.15	155.15	155.41	0.010838	2.28	5.55	11.07	0.99
Reach2	100.0000	SCS II 100yr	7.38	154.46	154.99	154.99	155.19	0.011806	2.00	3.85	9.93	0.99
Reach2	100.0000	SCS II 50yr	6.63	154.46	154.96	154.96	155.15	0.012016	1.94	3.55	9.72	0.99
Reach2	13.60638	Check	9.60	152.34	152.81	152.97	153.34	0.064737	3.40	3.40	17.01	2.15
Reach2	13.60638	Regional	12.00	152.34	152.84	153.02	153.48	0.066797	3.73	3.96	18.28	2.22
Reach2	13.60638	SCS II 100yr	7.38	152.34	152.77	152.91	153.20	0.061389	3.02	2.87	15.26	2.05
Reach2	13.60638	SCS II 50yr	6.63	152.34	152.76	152.88	153.16	0.059612	2.90	2.67	14.67	2.00

HEC-RAS Plan: Prop River: ShoreacresWest Reach: Reach1

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	5536.951	Check	8.10	233.02	233.52	233.52	233.67	0.013006	1.74	4.70	16.23	1.00
Reach1	5536.951	Hazel	9.80	233.02	233.56	233.56	233.73	0.012419	1.83	5.47	17.34	0.99
Reach1	5536.951	SCS II 100yr	6.23	233.02	233.46	233.46	233.59	0.013880	1.63	3.84	14.89	1.01
Reach1	5536.951	SCS II 50yr	5.59	233.02	233.44	233.44	233.57	0.014146	1.58	3.55	14.41	1.00
Reach1	5500	Check	8.10	230.38	230.73	231.00	232.24	0.271496	5.44	1.49	8.47	4.14
Reach1	5500	Hazel	9.80	230.38	230.76	231.05	232.35	0.262391	5.59	1.75	9.34	4.12
Reach1	5500	SCS II 100yr	6.23	230.38	230.69	230.93	232.08	0.294446	5.22	1.19	7.66	4.23
Reach1	5500	SCS II 50yr	5.59	230.38	230.68	230.91	232.03	0.303987	5.14	1.09	7.32	4.26
Reach1	5455.987	Check	8.10	227.72	228.20	228.30	228.52	0.035367	2.48	3.26	13.06	1.59
Reach1	5455.987	Hazel	9.80	227.72	228.24	228.35	228.60	0.036175	2.65	3.70	13.87	1.63
Reach1	5455.987	SCS II 100yr	6.23	227.72	228.16	228.24	228.43	0.033798	2.28	2.73	11.99	1.53
Reach1	5455.987	SCS II 50yr	5.59	227.72	228.15	228.22	228.39	0.033311	2.21	2.53	11.57	1.51
Reach1	5414.434	Check	8.10	225.91	227.23	226.64	227.25	0.000581	0.59	13.77	21.84	0.24
Reach1	5414.434	Hazel	9.80	225.91	227.26	226.70	227.29	0.000730	0.67	14.58	22.57	0.27
Reach1	5414.434	SCS II 100yr	6.23	225.91	227.18	226.56	227.19	0.000426	0.49	12.66	20.79	0.20
Reach1	5414.434	SCS II 50yr	5.59	225.91	227.15	226.54	227.16	0.000381	0.46	12.15	20.29	0.19
Reach1	5394.623	Check	8.10	224.77	227.23	225.66	227.24	0.000042	0.25	36.94	43.21	0.07
Reach1	5394.623	Hazel	9.80	224.77	227.27	225.73	227.28	0.000056	0.30	38.59	43.91	0.08
Reach1	5394.623	SCS II 100yr	6.23	224.77	227.18	225.56	227.18	0.000029	0.20	34.67	41.47	0.06
Reach1	5394.623	SCS II 50yr	5.59	224.77	227.15	225.53	227.16	0.000025	0.19	33.64	40.36	0.05
Reach1	5385.596	Culvert										
Reach1	5372.859	Check	8.10	223.02	223.74	223.74	223.95	0.012036	2.04	3.97	9.40	1.00
Reach1	5372.859	Hazel	9.80	223.02	223.81	223.81	224.04	0.011583	2.14	4.59	9.82	1.00
Reach1	5372.859	SCS II 100yr	6.23	223.02	223.66	223.66	223.85	0.012481	1.94	3.21	8.42	1.00
Reach1	5372.859	SCS II 50yr	5.59	223.02	223.63	223.63	223.81	0.012525	1.88	2.97	8.17	1.00
Reach1	5355.585	Check	8.10	222.02	222.63	222.82	223.34	0.102717	3.74	2.17	10.35	2.61
Reach1	5355.585	Hazel	9.80	222.02	222.66	222.87	223.43	0.097617	3.89	2.52	10.92	2.58
Reach1	5355.585	SCS II 100yr	6.23	222.02	222.58	222.76	223.25	0.085695	3.63	1.72	7.45	2.42
Reach1	5355.585	SCS II 50yr	5.59	222.02	222.55	222.74	223.22	0.077423	3.62	1.55	6.24	2.32
Reach1	5300	Check	8.10	219.92	220.44	220.52	220.76	0.023471	2.49	3.42	11.85	1.35
Reach1	5300	Hazel	9.80	219.92	220.48	220.59	220.85	0.024011	2.69	3.91	12.58	1.39
Reach1	5300	SCS II 100yr	6.23	219.92	220.38	220.46	220.66	0.025838	2.33	2.74	10.74	1.38
Reach1	5300	SCS II 50yr	5.59	219.92	220.36	220.43	220.62	0.027447	2.27	2.49	10.31	1.40
Reach1	5253.114	Check	8.10	217.81	218.53	218.73	219.16	0.051655	3.50	2.31	7.17	1.97
Reach1	5253.114	Hazel	9.80	217.81	218.58	218.80	219.25	0.049688	3.62	2.71	7.75	1.96
Reach1	5253.114	SCS II 100yr	6.23	217.81	218.48	218.65	219.00	0.049182	3.22	1.94	6.57	1.89
Reach1	5253.114	SCS II 50yr	5.59	217.81	218.46	218.61	218.94	0.047280	3.08	1.81	6.37	1.84
Reach1	5200	Check	8.10	216.45	217.30	217.36	217.58	0.017216	2.36	3.43	8.47	1.18
Reach1	5200	Hazel	9.80	216.45	217.36	217.43	217.67	0.017684	2.48	3.95	9.22	1.21
Reach1	5200	SCS II 100yr	6.23	216.45	217.22	217.27	217.47	0.017309	2.24	2.78	7.40	1.17
Reach1	5200	SCS II 50yr	5.59	216.45	217.18	217.23	217.43	0.017543	2.21	2.53	6.98	1.17
Reach1	5156.441	Check	8.10	215.48	216.08	216.21	216.50	0.037815	2.88	2.82	9.39	1.68
Reach1	5156.441	Hazel	9.80	215.48	216.13	216.26	216.58	0.036975	2.99	3.28	10.16	1.68
Reach1	5156.441	SCS II 100yr	6.23	215.48	216.02	216.14	216.39	0.037650	2.69	2.32	8.52	1.65
Reach1	5156.441	SCS II 50yr	5.59	215.48	216.00	216.11	216.35	0.037139	2.60	2.15	8.20	1.63
Reach1	5100	Check	8.10	213.40	214.00	214.16	214.47	0.034042	3.03	2.67	7.60	1.63
Reach1	5100	Hazel	9.80	213.40	214.06	214.23	214.57	0.034169	3.18	3.09	8.22	1.65
Reach1	5100	SCS II 100yr	6.23	213.40	213.94	214.07	214.35	0.034591	2.85	2.18	6.90	1.62
Reach1	5100	SCS II 50yr	5.59	213.40	213.91	214.04	214.31	0.035114	2.79	2.00	6.61	1.62
Reach1	5071.870	Check	8.10	212.60	213.35	213.44	213.70	0.020702	2.62	3.09	7.42	1.30
Reach1	5071.870	Hazel	9.80	212.60	213.41	213.51	213.80	0.020550	2.75	3.57	7.94	1.31
Reach1	5071.870	SCS II 100yr	6.23	212.60	213.28	213.35	213.58	0.020611	2.45	2.55	6.77	1.27
Reach1	5071.870	SCS II 50yr	5.59	212.60	213.25	213.31	213.53	0.020477	2.37	2.36	6.53	1.26
Reach1	5040.504	Check	8.10	211.38	212.00	212.21	212.66	0.057680	3.58	2.27	7.47	2.07
Reach1	5040.504	Hazel	9.80	211.38	212.05	212.27	212.76	0.056885	3.73	2.63	8.06	2.09
Reach1	5040.504	SCS II 100yr	6.23	211.38	211.94	212.14	212.53	0.059251	3.39	1.84	6.72	2.07
Reach1	5040.504	SCS II 50yr	5.59	211.38	211.92	212.10	212.48	0.060127	3.32	1.69	6.43	2.07
Reach1	4998.065	Check	8.10	210.09	210.47	210.55	210.76	0.032029	2.41	3.37	13.34	1.52
Reach1	4998.065	Hazel	9.80	210.09	210.50	210.60	210.85	0.033034	2.61	3.77	13.86	1.56
Reach1	4998.065	SCS II 100yr	6.23	210.09	210.43	210.50	210.67	0.030503	2.16	2.88	12.69	1.45
Reach1	4998.065	SCS II 50yr	5.59	210.09	210.42	210.48	210.64	0.029828	2.07	2.70	12.43	1.42

HEC-RAS Plan: Prop River: ShoreacresWest Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	4950.585	Check	8.10	208.03	208.48	208.61	208.89	0.049392	2.84	2.85	11.99	1.86
Reach1	4950.585	Hazel	9.80	208.03	208.51	208.65	208.96	0.048219	2.95	3.32	12.88	1.86
Reach1	4950.585	SCS II 100yr	6.23	208.03	208.43	208.55	208.80	0.051991	2.70	2.31	10.87	1.87
Reach1	4950.585	SCS II 50yr	5.59	208.03	208.41	208.52	208.77	0.053332	2.64	2.11	10.45	1.88
Reach1	4900	Check	8.10	206.26	206.87	206.95	207.15	0.024207	2.35	3.45	11.26	1.35
Reach1	4900	Hazel	9.80	206.26	206.91	207.00	207.23	0.024516	2.47	3.96	12.05	1.38
Reach1	4900	SCS II 100yr	6.23	206.26	206.82	206.88	207.06	0.023533	2.17	2.87	10.28	1.31
Reach1	4900	SCS II 50yr	5.59	206.26	206.80	206.85	207.02	0.023201	2.10	2.66	9.90	1.30
Reach1	4806.262	Check	8.10	203.95	204.30	204.39	204.60	0.030747	2.42	3.35	12.51	1.49
Reach1	4806.262	Hazel	9.80	203.95	204.34	204.44	204.68	0.030285	2.57	3.81	12.84	1.51
Reach1	4806.262	SCS II 100yr	6.23	203.95	204.26	204.33	204.51	0.031714	2.23	2.80	12.11	1.48
Reach1	4806.262	SCS II 50yr	5.59	203.95	204.24	204.31	204.48	0.032061	2.15	2.60	11.97	1.47
Reach1	4720.056	Check	8.10	201.70	202.34	202.39	202.61	0.017896	2.29	3.54	9.45	1.19
Reach1	4720.056	Hazel	9.80	201.70	202.39	202.46	202.69	0.017931	2.42	4.07	11.12	1.21
Reach1	4720.056	SCS II 100yr	6.23	201.70	202.27	202.31	202.50	0.017737	2.13	2.92	8.61	1.17
Reach1	4720.056	SCS II 50yr	5.59	201.70	202.25	202.28	202.46	0.017718	2.07	2.70	8.32	1.16
Reach1	4674.655	Check	8.10	200.11	200.65	200.85	201.30	0.050010	3.57	2.27	6.71	1.96
Reach1	4674.655	Hazel	9.80	200.11	200.70	200.92	201.40	0.047662	3.70	2.65	7.16	1.95
Reach1	4674.655	SCS II 100yr	6.23	200.11	200.58	200.76	201.17	0.053498	3.41	1.83	6.10	1.99
Reach1	4674.655	SCS II 50yr	5.59	200.11	200.55	200.73	201.12	0.054850	3.34	1.67	5.87	2.00
Reach1	4620.314	Check	8.10	198.94	199.29	199.34	199.52	0.020340	2.11	3.84	12.94	1.24
Reach1	4620.314	Hazel	9.80	198.94	199.33	199.39	199.60	0.021551	2.30	4.27	13.18	1.29
Reach1	4620.314	SCS II 100yr	6.23	198.94	199.25	199.28	199.43	0.018846	1.87	3.33	12.65	1.17
Reach1	4620.314	SCS II 50yr	5.59	198.94	199.24	199.26	199.40	0.018291	1.78	3.13	12.53	1.14
Reach1	4574.295	Check	8.10	197.69	198.32	198.38	198.61	0.019186	2.35	3.44	9.28	1.23
Reach1	4574.295	Hazel	9.80	197.69	198.38	198.45	198.69	0.018025	2.44	4.02	9.83	1.22
Reach1	4574.295	SCS II 100yr	6.23	197.69	198.25	198.31	198.51	0.021144	2.25	2.77	8.60	1.27
Reach1	4574.295	SCS II 50yr	5.59	197.69	198.22	198.28	198.47	0.022073	2.21	2.53	8.34	1.28
Reach1	4500	Check	8.10	195.65	196.19	196.33	196.64	0.037978	2.97	2.73	8.56	1.68
Reach1	4500	Hazel	9.80	195.65	196.23	196.39	196.75	0.039980	3.18	3.08	9.04	1.74
Reach1	4500	SCS II 100yr	6.23	195.65	196.14	196.26	196.51	0.034876	2.68	2.32	7.96	1.59
Reach1	4500	SCS II 50yr	5.59	195.65	196.12	196.23	196.46	0.033557	2.57	2.17	7.73	1.55
Reach1	4443.532	Check	8.10	194.67	195.34	195.30	195.49	0.009498	1.74	4.66	11.85	0.88
Reach1	4443.532	Hazel	9.80	194.67	195.38	195.36	195.57	0.010380	1.89	5.19	12.42	0.93
Reach1	4443.532	SCS II 100yr	6.23	194.67	195.28	195.23	195.41	0.008455	1.55	4.02	11.10	0.82
Reach1	4443.532	SCS II 50yr	5.59	194.67	195.26	195.20	195.37	0.008106	1.48	3.77	10.80	0.80
Reach1	4400	Check	8.10	194.28	194.61	194.61	194.74	0.043903	2.00	5.55	21.58	1.63
Reach1	4400	Hazel	9.80	194.28	194.65	194.65	194.79	0.038296	2.03	6.54	23.68	1.56
Reach1	4400	SCS II 100yr	6.23	194.28	194.55	194.55	194.67	0.054733	1.98	4.39	18.83	1.77
Reach1	4400	SCS II 50yr	5.59	194.28	194.53	194.53	194.65	0.059327	1.96	4.00	17.80	1.82
Reach1	4349.361	Check	8.10	192.31	192.79	192.87	193.06	0.027995	2.34	3.84	18.07	1.43
Reach1	4349.361	Hazel	9.80	192.31	192.82	192.91	193.14	0.030113	2.55	4.34	18.67	1.50
Reach1	4349.361	SCS II 100yr	6.23	192.31	192.76	192.81	192.97	0.024855	2.05	3.26	16.75	1.33
Reach1	4349.361	SCS II 50yr	5.59	192.31	192.74	192.79	192.94	0.023861	1.95	3.05	16.12	1.29
Reach1	4303.558	Check	8.10	191.25	191.71	191.76	191.92	0.021768	2.00	4.24	18.85	1.25
Reach1	4303.558	Hazel	9.80	191.25	191.75	191.80	191.98	0.020796	2.12	4.94	20.10	1.25
Reach1	4303.558	SCS II 100yr	6.23	191.25	191.67	191.71	191.84	0.023793	1.86	3.44	17.53	1.27
Reach1	4303.558	SCS II 50yr	5.59	191.25	191.65	191.69	191.82	0.024599	1.80	3.17	17.22	1.27
Reach1	4255.549	Check	8.10	189.33	189.68	189.82	190.16	0.071114	3.05	2.68	14.26	2.17
Reach1	4255.549	Hazel	9.80	189.33	189.71	189.87	190.26	0.072200	3.28	3.04	15.01	2.22
Reach1	4255.549	SCS II 100yr	6.23	189.33	189.66	189.77	190.03	0.066837	2.72	2.30	13.41	2.06
Reach1	4255.549	SCS II 50yr	5.59	189.33	189.64	189.75	189.99	0.065331	2.60	2.16	13.08	2.02
Reach1	4200	Check	8.10	188.34	188.80	188.80	188.96	0.013283	1.94	6.35	20.22	1.03
Reach1	4200	Hazel	9.80	188.34	188.84	188.84	189.02	0.013148	2.07	7.26	20.52	1.04
Reach1	4200	SCS II 100yr	6.23	188.34	188.74	188.74	188.88	0.013465	1.78	5.27	19.86	1.01
Reach1	4200	SCS II 50yr	5.59	188.34	188.72	188.72	188.85	0.013487	1.72	4.89	19.73	1.00
Reach1	4161.230	Check	8.10	187.54	187.86	187.95	188.18	0.040537	2.80	5.15	28.14	1.71
Reach1	4161.230	Hazel	9.80	187.54	187.88	188.00	188.25	0.041143	3.00	5.95	28.96	1.75
Reach1	4161.230	SCS II 100yr	6.23	187.54	187.82	187.91	188.10	0.039577	2.54	4.21	27.13	1.65
Reach1	4161.230	SCS II 50yr	5.59	187.54	187.81	187.89	188.07	0.039308	2.44	3.86	26.75	1.63
Reach1	4100	Check	8.10	186.79	187.25	187.07	187.29	0.003710	1.00	11.49	29.01	0.54
Reach1	4100	Hazel	9.80	186.79	187.30	187.11	187.35	0.003708	1.07	12.89	29.54	0.55

HEC-RAS Plan: Prop River: ShoreacresWest Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	4100	SCS II 100yr	6.23	186.79	187.19	187.03	187.23	0.003725	0.90	9.81	28.34	0.53
Reach1	4100	SCS II 50yr	5.59	186.79	187.17	187.01	187.20	0.003732	0.87	9.18	28.03	0.53
Reach1	4054.336	Check	8.10	186.49	186.88	186.88	187.02	0.016721	1.81	6.15	21.80	1.11
Reach1	4054.336	Hazel	9.80	186.49	186.92	186.92	187.07	0.016050	1.90	7.06	22.52	1.10
Reach1	4054.336	SCS II 100yr	6.23	186.49	186.83	186.83	186.95	0.017571	1.68	5.11	20.94	1.11
Reach1	4054.336	SCS II 50yr	5.59	186.49	186.81	186.81	186.92	0.017856	1.63	4.74	20.63	1.11
Reach1	4031.158	Check	8.10	185.81	186.25	186.33	186.55	0.024458	2.47	3.69	14.32	1.38
Reach1	4031.158	Hazel	9.80	185.81	186.29	186.39	186.62	0.022944	2.59	4.40	15.50	1.36
Reach1	4031.158	SCS II 100yr	6.23	185.81	186.19	186.26	186.46	0.025854	2.29	2.95	12.96	1.38
Reach1	4031.158	SCS II 50yr	5.59	185.81	186.17	186.24	186.42	0.026422	2.22	2.69	12.46	1.38
Reach1	4000	Check	8.10	184.36	184.85	184.74	184.93	0.005690	1.40	10.60	33.57	0.69
Reach1	4000	Hazel	9.80	184.36	184.90	184.78	184.98	0.005778	1.49	12.13	34.00	0.71
Reach1	4000	SCS II 100yr	6.23	184.36	184.80	184.69	184.86	0.005358	1.25	8.78	29.61	0.66
Reach1	4000	SCS II 50yr	5.59	184.36	184.77	184.67	184.83	0.005288	1.20	8.12	28.51	0.65
Reach1	3957.839	Check	8.10	184.00	184.50	184.50	184.62	0.010685	1.73	7.98	33.52	0.92
Reach1	3957.839	Hazel	9.80	184.00	184.53	184.53	184.68	0.010845	1.84	9.25	33.88	0.94
Reach1	3957.839	SCS II 100yr	6.23	184.00	184.45	184.45	184.56	0.010517	1.59	6.43	33.06	0.90
Reach1	3957.839	SCS II 50yr	5.59	184.00	184.43	184.43	184.54	0.010306	1.53	5.89	32.89	0.88
Reach1	3900	Check	8.10	183.08	183.34	183.40	183.54	0.047553	2.51	6.68	36.54	1.77
Reach1	3900	Hazel	9.80	183.08	183.37	183.43	183.59	0.045572	2.66	7.72	38.29	1.77
Reach1	3900	SCS II 100yr	6.23	183.08	183.31	183.35	183.48	0.050399	2.30	5.49	34.45	1.78
Reach1	3900	SCS II 50yr	5.59	183.08	183.29	183.34	183.45	0.051095	2.21	5.08	33.71	1.77
Reach1	3844.476	Check	8.10	181.63	182.06	182.10	182.26	0.016779	2.02	4.88	19.20	1.14
Reach1	3844.476	Hazel	9.80	181.63	182.10	182.14	182.33	0.016991	2.16	5.63	20.15	1.16
Reach1	3844.476	SCS II 100yr	6.23	181.63	182.02	182.04	182.18	0.016492	1.83	4.02	18.03	1.10
Reach1	3844.476	SCS II 50yr	5.59	181.63	182.00	182.02	182.15	0.016467	1.76	3.71	17.59	1.09
Reach1	3795.208	Check	8.10	180.68	181.34	181.24	181.45	0.006011	1.45	5.60	13.27	0.71
Reach1	3795.208	Hazel	9.80	180.68	181.40	181.30	181.52	0.006147	1.55	6.33	13.96	0.73
Reach1	3795.208	SCS II 100yr	6.23	180.68	181.27	181.17	181.36	0.005754	1.32	4.71	12.37	0.68
Reach1	3795.208	SCS II 50yr	5.59	180.68	181.25	181.15	181.33	0.005641	1.27	4.39	12.03	0.67
Reach1	3754.021	Check	8.10	180.44	180.89	180.89	181.08	0.018276	2.13	5.61	16.23	1.19
Reach1	3754.021	Hazel	9.80	180.44	180.94	180.94	181.15	0.016886	2.23	6.48	16.75	1.17
Reach1	3754.021	SCS II 100yr	6.23	180.44	180.83	180.83	180.99	0.020481	1.98	4.60	15.61	1.22
Reach1	3754.021	SCS II 50yr	5.59	180.44	180.81	180.81	180.95	0.021516	1.93	4.25	15.38	1.24
Reach1	3700.039	Check	8.10	179.51	180.10	179.98	180.18	0.004494	1.35	9.04	23.24	0.63
Reach1	3700.039	Hazel	9.80	179.51	180.15	180.02	180.24	0.004694	1.46	10.19	23.60	0.65
Reach1	3700.039	SCS II 100yr	6.23	179.51	180.04	179.93	180.10	0.004230	1.21	7.65	22.79	0.59
Reach1	3700.039	SCS II 50yr	5.59	179.51	180.01	179.91	180.07	0.004128	1.15	7.14	22.63	0.58
Reach1	3653.616	Check	8.10	179.46	179.80	179.80	179.87	0.011105	1.57	10.62	32.86	0.91
Reach1	3653.616	Hazel	9.80	179.46	179.84	179.75	179.92	0.011783	1.73	11.70	33.04	0.96
Reach1	3653.616	SCS II 100yr	6.23	179.46	179.76	179.76	179.82	0.010428	1.39	9.25	32.64	0.87
Reach1	3653.616	SCS II 50yr	5.59	179.46	179.75	179.75	179.79	0.010187	1.32	8.73	32.55	0.85
Reach1	3629.784	Check	8.10	179.05	179.45	179.45	179.57	0.014614	1.51	5.41	25.46	1.01
Reach1	3629.784	Hazel	9.80	179.05	179.49	179.49	179.62	0.013810	1.59	6.27	27.51	1.00
Reach1	3629.784	SCS II 100yr	6.23	179.05	179.42	179.42	179.51	0.015531	1.39	4.49	23.44	1.01
Reach1	3629.784	SCS II 50yr	5.59	179.05	179.40	179.40	179.49	0.015869	1.35	4.15	22.77	1.01
Reach1	3600	Check	8.10	177.88	178.25	178.40	178.77	0.057276	3.29	3.25	17.29	2.03
Reach1	3600	Hazel	9.80	177.88	178.28	178.46	178.85	0.054450	3.47	3.88	18.60	2.02
Reach1	3600	SCS II 100yr	6.23	177.88	178.21	178.34	178.66	0.061680	3.06	2.54	15.71	2.05
Reach1	3600	SCS II 50yr	5.59	177.88	178.19	178.32	178.62	0.063623	2.97	2.30	15.12	2.06
Reach1	3546.191	Check	8.10	176.73	177.14	177.15	177.30	0.014737	1.95	6.47	21.38	1.07
Reach1	3546.191	Hazel	9.80	176.73	177.18	177.19	177.37	0.015436	2.12	7.25	21.72	1.12
Reach1	3546.191	SCS II 100yr	6.23	176.73	177.10	177.10	177.23	0.014469	1.78	5.44	20.89	1.04
Reach1	3546.191	SCS II 50yr	5.59	176.73	177.08	177.08	177.20	0.014540	1.71	5.04	20.69	1.04
Reach1	3500	Check	8.10	174.98	175.44	175.62	176.02	0.064566	3.37	2.43	10.57	2.14
Reach1	3500	Hazel	9.80	174.98	175.48	175.67	176.10	0.056646	3.47	2.91	11.61	2.05
Reach1	3500	SCS II 100yr	6.23	174.98	175.39	175.55	175.91	0.074057	3.18	1.96	9.43	2.22
Reach1	3500	SCS II 50yr	5.59	174.98	175.38	175.52	175.87	0.075745	3.11	1.80	9.03	2.23
Reach1	3454.354	Check	8.10	173.36	174.12	174.19	174.41	0.020312	2.41	3.36	9.06	1.27
Reach1	3454.354	Hazel	9.80	173.36	174.16	174.25	174.50	0.021714	2.59	3.79	9.67	1.32
Reach1	3454.354	SCS II 100yr	6.23	173.36	174.05	174.11	174.30	0.018978	2.21	2.82	8.22	1.21
Reach1	3454.354	SCS II 50yr	5.59	173.36	174.03	174.07	174.26	0.018817	2.15	2.60	7.86	1.20

HEC-RAS Plan: Prop River: ShoreacresWest Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	3400	Check	8.10	171.77	172.33	172.49	172.81	0.045001	3.09	2.62	8.98	1.83
Reach1	3400	Hazel	9.80	171.77	172.38	172.54	172.89	0.042094	3.16	3.10	9.76	1.79
Reach1	3400	SCS II 100yr	6.23	171.77	172.26	172.41	172.72	0.048767	2.99	2.09	8.02	1.87
Reach1	3400	SCS II 50yr	5.59	171.77	172.24	172.38	172.68	0.049527	2.92	1.91	7.68	1.87
Reach1	3337.537	Check	8.10	170.87	171.37	171.22	171.42	0.003301	1.07	8.67	23.76	0.53
Reach1	3337.537	Hazel	9.80	170.87	171.42	171.26	171.48	0.003231	1.14	9.96	24.43	0.53
Reach1	3337.537	SCS II 100yr	6.23	170.87	171.30	171.18	171.35	0.003436	0.98	7.14	22.94	0.52
Reach1	3337.537	SCS II 50yr	5.59	170.87	171.28	171.16	171.32	0.003503	0.95	6.59	22.63	0.52
Reach1	3300	Check	8.10	170.55	171.13		171.24	0.007512	1.45	5.98	20.25	0.78
Reach1	3300	Hazel	9.80	170.55	171.17	171.13	171.29	0.008420	1.60	6.67	21.76	0.83
Reach1	3300	SCS II 100yr	6.23	170.55	171.09	171.02	171.17	0.006462	1.28	5.16	18.51	0.71
Reach1	3300	SCS II 50yr	5.59	170.55	171.07	171.00	171.15	0.006174	1.21	4.82	17.78	0.69
Reach1	3264.281	Check	8.10	170.27	170.69	170.69	170.81	0.020437	1.70	6.03	31.45	1.18
Reach1	3264.281	Hazel	9.80	170.27	170.73	170.73	170.86	0.018183	1.77	7.21	34.50	1.14
Reach1	3264.281	SCS II 100yr	6.23	170.27	170.65	170.65	170.75	0.024804	1.60	4.73	27.01	1.24
Reach1	3264.281	SCS II 50yr	5.59	170.27	170.63	170.63	170.73	0.026288	1.55	4.34	25.40	1.26
Reach1	3203.113	Check	8.10	168.53	168.85	168.94	169.15	0.042525	2.43	3.44	17.99	1.69
Reach1	3203.113	Hazel	9.80	168.53	168.87	168.98	169.24	0.047180	2.69	3.78	18.42	1.80
Reach1	3203.113	SCS II 100yr	6.23	168.53	168.83	168.89	169.05	0.035692	2.09	3.05	17.50	1.53
Reach1	3203.113	SCS II 50yr	5.59	168.53	168.82	168.88	169.02	0.033910	1.98	2.88	17.29	1.48
Reach1	3143.780	Check	8.10	167.66	168.03	168.03	168.15	0.014517	1.69	6.18	25.96	1.03
Reach1	3143.780	Hazel	9.80	167.66	168.07	168.07	168.20	0.014304	1.78	7.16	27.54	1.04
Reach1	3143.780	SCS II 100yr	6.23	167.66	167.99	167.99	168.09	0.014695	1.58	5.05	24.04	1.02
Reach1	3143.780	SCS II 50yr	5.59	167.66	167.97	167.97	168.07	0.014396	1.52	4.70	23.40	1.00
Reach1	3100	Check	8.10	166.77	167.16	167.21	167.35	0.023499	1.99	4.61	23.59	1.29
Reach1	3100	Hazel	9.80	166.77	167.19	167.25	167.40	0.023675	2.10	5.37	25.38	1.31
Reach1	3100	SCS II 100yr	6.23	166.77	167.12	167.16	167.29	0.023328	1.83	3.75	21.41	1.26
Reach1	3100	SCS II 50yr	5.59	166.77	167.10	167.15	167.26	0.024137	1.79	3.40	20.45	1.27
Reach1	3056.458	Check	8.10	165.66	166.12	166.17	166.32	0.023879	1.98	4.10	18.18	1.29
Reach1	3056.458	Hazel	9.80	165.66	166.15	166.21	166.38	0.023323	2.12	4.68	19.49	1.31
Reach1	3056.458	SCS II 100yr	6.23	165.66	166.08	166.12	166.25	0.024311	1.82	3.42	16.49	1.28
Reach1	3056.458	SCS II 50yr	5.59	165.66	166.07	166.10	166.23	0.023627	1.75	3.19	15.88	1.25
Reach1	3011.989	Check	8.10	165.11	165.42	165.41	165.52	0.018830	1.76	7.12	32.66	1.15
Reach1	3011.989	Hazel	9.80	165.11	165.45	165.44	165.56	0.018390	1.87	8.17	33.93	1.16
Reach1	3011.989	SCS II 100yr	6.23	165.11	165.38	165.37	165.47	0.020019	1.63	5.85	31.06	1.15
Reach1	3011.989	SCS II 50yr	5.59	165.11	165.36	165.36	165.45	0.020674	1.58	5.38	30.46	1.16
Reach1	2947.218	Check	8.10	164.65	165.03		165.06	0.004977	0.99	12.29	49.76	0.60
Reach1	2947.218	Hazel	9.80	164.65	165.06		165.10	0.005130	1.06	13.95	52.85	0.62
Reach1	2947.218	SCS II 100yr	6.23	164.65	164.99		165.02	0.004741	0.89	10.37	45.47	0.58
Reach1	2947.218	SCS II 50yr	5.59	164.65	164.98		165.00	0.004641	0.85	9.69	43.77	0.57
Reach1	2900	Check	8.10	164.40	164.67	164.63	164.72	0.014606	1.28	9.91	59.03	0.97
Reach1	2900	Hazel	9.80	164.40	164.69	164.65	164.75	0.014616	1.39	11.23	61.03	0.99
Reach1	2900	SCS II 100yr	6.23	164.40	164.64	164.61	164.68	0.014702	1.15	8.35	56.56	0.94
Reach1	2900	SCS II 50yr	5.59	164.40	164.63		164.67	0.014800	1.11	7.78	55.36	0.94
Reach1	2892.14*	Check	8.10	164.31	164.59	164.56	164.64	0.014872	1.32	9.81	59.91	0.98
Reach1	2892.14*	Hazel	9.80	164.31	164.61	164.58	164.67	0.014922	1.43	11.14	62.15	1.00
Reach1	2892.14*	SCS II 100yr	6.23	164.31	164.56	164.54	164.61	0.014848	1.19	8.25	57.15	0.95
Reach1	2892.14*	SCS II 50yr	5.59	164.31	164.55	164.53	164.59	0.014727	1.14	7.70	56.12	0.94
Reach1	2884.28*	Check	8.10	164.22	164.51	164.49	164.57	0.014799	1.36	9.75	60.73	0.98
Reach1	2884.28*	Hazel	9.80	164.22	164.54	164.51	164.60	0.014526	1.45	11.19	63.18	0.99
Reach1	2884.28*	SCS II 100yr	6.23	164.22	164.49	164.46	164.53	0.014711	1.23	8.19	57.86	0.96
Reach1	2884.28*	SCS II 50yr	5.59	164.22	164.48	164.46	164.52	0.014835	1.18	7.61	56.98	0.95
Reach1	2876.42*	Check	8.10	164.13	164.44	164.42	164.50	0.014191	1.38	9.81	61.66	0.97
Reach1	2876.42*	Hazel	9.80	164.13	164.46	164.44	164.53	0.014735	1.49	11.06	63.83	1.01
Reach1	2876.42*	SCS II 100yr	6.23	164.13	164.41	164.39	164.46	0.014476	1.26	8.12	58.70	0.96
Reach1	2876.42*	SCS II 50yr	5.59	164.13	164.40	164.39	164.45	0.014393	1.21	7.55	57.20	0.95
Reach1	2868.56*	Check	8.10	164.05	164.36	164.35	164.42	0.015282	1.44	9.49	62.35	1.01
Reach1	2868.56*	Hazel	9.80	164.05	164.42		164.47	0.008055	1.25	13.64	68.83	0.77
Reach1	2868.56*	SCS II 100yr	6.23	164.05	164.33	164.32	164.39	0.014817	1.30	7.96	59.34	0.98
Reach1	2868.56*	SCS II 50yr	5.59	164.05	164.32	164.31	164.37	0.014921	1.26	7.36	58.19	0.97
Reach1	2860.7*	Check	8.10	163.96	164.29	164.28	164.35	0.012945	1.40	10.05	64.54	0.94

HEC-RAS Plan: Prop River: ShoreacresWest Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	2860.7*	Hazel	9.80	163.96	164.41		164.44	0.003499	0.97	18.50	77.95	0.53
Reach1	2860.7*	SCS II 100yr	6.23	163.96	164.26	164.25	164.32	0.013982	1.31	8.08	60.79	0.96
Reach1	2860.7*	SCS II 50yr	5.59	163.96	164.25	164.24	164.30	0.013819	1.26	7.50	59.86	0.94
Reach1	2852.8*	Check	8.10	163.87	164.27		164.30	0.005064	1.04	14.09	71.91	0.62
Reach1	2852.8*	Hazel	9.80	163.87	164.41		164.42	0.001605	0.75	24.76	86.78	0.37
Reach1	2852.8*	SCS II 100yr	6.23	163.87	164.18	164.18	164.24	0.015061	1.38	7.78	61.44	0.99
Reach1	2852.8*	SCS II 50yr	5.59	163.87	164.17	164.17	164.23	0.015368	1.34	7.11	59.79	0.99
Reach1	2844.9*	Check	8.10	163.78	164.27		164.28	0.002023	0.77	19.84	82.30	0.41
Reach1	2844.9*	Hazel	9.80	163.78	164.40		164.41	0.000815	0.61	32.03	96.17	0.27
Reach1	2844.9*	SCS II 100yr	6.23	163.78	164.11	164.10	164.17	0.012043	1.31	8.35	63.35	0.90
Reach1	2844.9*	SCS II 50yr	5.59	163.78	164.09	164.09	164.15	0.014079	1.33	7.22	60.66	0.96
Reach1	2837*	Check	8.10	163.69	164.27		164.28	0.000935	0.60	26.54	90.91	0.29
Reach1	2837*	Hazel	9.80	163.69	164.40		164.41	0.000451	0.50	40.01	103.71	0.21
Reach1	2837*	SCS II 100yr	6.23	163.69	164.10		164.13	0.003616	0.88	13.13	73.09	0.52
Reach1	2837*	SCS II 50yr	5.59	163.69	164.04	164.02	164.09	0.007809	1.11	8.99	65.39	0.74
Reach1	2829.14*	Check	8.10	163.60	164.27		164.27	0.000483	0.48	34.20	100.60	0.21
Reach1	2829.14*	Hazel	9.80	163.60	164.40		164.41	0.000263	0.42	48.70	109.92	0.16
Reach1	2829.14*	SCS II 100yr	6.23	163.60	164.10		164.11	0.001327	0.63	19.23	83.26	0.33
Reach1	2829.14*	SCS II 50yr	5.59	163.60	164.04		164.06	0.002291	0.74	14.42	77.40	0.42
Reach1	2821.28*	Check	8.10	163.52	164.27		164.27	0.000266	0.40	42.61	106.95	0.16
Reach1	2821.28*	Hazel	9.80	163.52	164.40		164.41	0.000164	0.35	57.95	115.68	0.13
Reach1	2821.28*	SCS II 100yr	6.23	163.52	164.10		164.11	0.000591	0.48	26.18	92.26	0.23
Reach1	2821.28*	SCS II 50yr	5.59	163.52	164.04		164.05	0.000871	0.53	20.85	85.91	0.27
Reach1	2813.42*	Check	8.10	163.43	164.27		164.27	0.000159	0.33	51.40	112.80	0.13
Reach1	2813.42*	Hazel	9.80	163.43	164.40		164.41	0.000107	0.31	67.52	120.10	0.11
Reach1	2813.42*	SCS II 100yr	6.23	163.43	164.10		164.11	0.000302	0.38	33.85	101.75	0.17
Reach1	2813.42*	SCS II 50yr	5.59	163.43	164.04		164.05	0.000404	0.41	27.96	95.62	0.19
Reach1	2805.56*	Check	8.10	163.34	164.27		164.27	0.000100	0.28	60.92	118.62	0.10
Reach1	2805.56*	Hazel	9.80	163.34	164.40		164.40	0.000071	0.27	77.57	122.65	0.09
Reach1	2805.56*	SCS II 100yr	6.23	163.34	164.10		164.10	0.000164	0.31	42.36	108.26	0.13
Reach1	2805.56*	SCS II 50yr	5.59	163.34	164.04		164.04	0.000208	0.33	36.02	104.15	0.14
Reach1	2797.7*	Check	8.10	163.25	164.27	163.69	164.27	0.000065	0.24	70.79	121.59	0.08
Reach1	2797.7*	Hazel	9.80	163.25	164.40	163.71	164.40	0.000050	0.24	87.80	125.17	0.08
Reach1	2797.7*	SCS II 100yr	6.23	163.25	164.10	163.66	164.10	0.000097	0.26	51.40	114.16	0.10
Reach1	2797.7*	SCS II 50yr	5.59	163.25	164.04	163.64	164.04	0.000115	0.27	44.70	110.43	0.11
Reach1	2769.71		Culvert									
Reach1	2750.56*	Check	8.10	162.72	163.06	163.23	163.85	0.171977	4.15	2.47	21.17	3.26
Reach1	2750.56*	Hazel	9.80	162.72	163.11	163.25	163.66	0.090010	3.56	3.94	34.59	2.46
Reach1	2750.56*	SCS II 100yr	6.23	162.72	162.99	163.20	164.39	0.489758	5.35	1.34	16.65	5.15
Reach1	2750.56*	SCS II 50yr	5.59	162.72	162.97	163.18	164.85	0.834786	6.12	0.99	15.57	6.50
Reach1	2742.71*	Check	8.10	162.63	163.05	163.15	163.32	0.041485	2.58	4.70	36.83	1.70
Reach1	2742.71*	Hazel	9.80	162.63	163.09	163.17	163.32	0.030290	2.46	6.69	57.83	1.49
Reach1	2742.71*	SCS II 100yr	6.23	162.63	162.99	163.12	163.35	0.069772	2.83	2.96	24.07	2.11
Reach1	2742.71*	SCS II 50yr	5.59	162.63	162.97	163.09	163.38	0.091930	3.00	2.43	22.00	2.38
Reach1	2734.85*	Check	8.10	162.54	163.03	163.07	163.16	0.016060	1.87	7.65	75.67	1.10
Reach1	2734.85*	Hazel	9.80	162.54	163.05	163.09	163.19	0.015995	1.97	9.59	81.95	1.11
Reach1	2734.85*	SCS II 100yr	6.23	162.54	162.98	163.02	163.11	0.019286	1.83	5.20	40.61	1.17
Reach1	2734.85*	SCS II 50yr	5.59	162.54	162.96	163.00	163.10	0.021968	1.84	4.47	32.51	1.23
Reach1	2727	Check	8.10	162.46	162.93	162.97	163.06	0.026195	1.86	6.35	48.51	1.32
Reach1	2727	Hazel	9.80	162.46	162.96	163.00	163.09	0.023395	1.92	8.14	78.42	1.27
Reach1	2727	SCS II 100yr	6.23	162.46	162.91	162.92	163.00	0.020234	1.56	5.70	39.90	1.14
Reach1	2727	SCS II 50yr	5.59	162.46	162.91	162.91	162.99	0.015861	1.44	5.59	36.90	1.02
Reach1	2726	Check	8.28	159.63	160.11	160.43	161.54	0.134382	5.30	1.56	7.90	3.16
Reach1	2726	Hazel	10.19	159.63	161.14	160.52	161.24	0.001201	1.38	7.39	19.14	0.38
Reach1	2726	SCS II 100yr	6.37	159.63	160.02	160.33	161.59	0.186726	5.55	1.15	6.97	3.62
Reach1	2726	SCS II 50yr	5.71	159.63	159.99	160.30	161.72	0.234703	5.83	0.98	6.42	3.99
Reach1	2725.412		Culvert									
Reach1	2201.34	Check	8.28	158.64	159.27	159.27	159.54	0.010410	2.32	3.68	13.60	0.99
Reach1	2201.34	Hazel	10.19	158.64	159.35	159.35	159.66	0.009966	2.49	4.24	14.29	0.99
Reach1	2201.34	SCS II 100yr	6.37	158.64	159.17	159.18	159.41	0.011848	2.18	3.01	12.54	1.02
Reach1	2201.34	SCS II 50yr	5.71	158.64	159.13	159.15	159.36	0.013024	2.15	2.73	12.09	1.05

HEC-RAS Plan: Prop River: ShoreacresWest Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	2201.17*	Check	8.28	158.52	158.90	159.03	159.35	0.044012	3.00	2.81	10.79	1.80
Reach1	2201.17*	Hazel	10.19	158.52	158.93	159.10	159.47	0.045715	3.27	3.20	11.25	1.87
Reach1	2201.17*	SCS II 100yr	6.37	158.52	158.86	158.97	159.22	0.040351	2.65	2.42	10.26	1.69
Reach1	2201.17*	SCS II 50yr	5.71	158.52	158.85	158.95	159.17	0.038051	2.50	2.30	10.09	1.63
Reach1	2201*	Check	8.28	158.41	158.90	158.92	159.12	0.014236	2.11	4.13	12.07	1.08
Reach1	2201*	Hazel	10.19	158.41	158.98	158.98	159.20	0.011222	2.12	5.14	12.74	0.99
Reach1	2201*	SCS II 100yr	6.37	158.41	158.86	158.86	159.02	0.012306	1.82	3.65	11.73	0.99
Reach1	2201*	SCS II 50yr	5.71	158.41	158.83	158.83	158.99	0.012632	1.76	3.36	11.48	0.99
Reach1	2200.84*	Check	8.28	158.29	158.80	158.80	159.00	0.012141	2.00	4.38	12.18	1.01
Reach1	2200.84*	Hazel	10.19	158.29	158.84	158.86	159.09	0.013626	2.25	4.84	12.45	1.08
Reach1	2200.84*	SCS II 100yr	6.37	158.29	158.73	158.74	158.90	0.013281	1.86	3.58	11.66	1.02
Reach1	2200.84*	SCS II 50yr	5.71	158.29	158.71	158.71	158.87	0.013055	1.78	3.34	11.49	1.00
Reach1	2200.67*	Check	8.28	158.17	158.67	158.68	158.88	0.013582	2.07	4.25	12.07	1.06
Reach1	2200.67*	Hazel	10.19	158.17	158.74	158.74	158.96	0.011859	2.15	5.09	12.50	1.01
Reach1	2200.67*	SCS II 100yr	6.37	158.17	158.62	158.62	158.79	0.012527	1.83	3.67	11.72	0.99
Reach1	2200.67*	SCS II 50yr	5.71	158.17	158.59	158.60	158.75	0.013118	1.78	3.36	11.53	1.01
Reach1	2200.5*	Check	8.28	158.05	158.56	158.56	158.76	0.011886	1.98	4.46	12.12	0.99
Reach1	2200.5*	Hazel	10.19	158.05	158.60	158.62	158.85	0.013614	2.24	4.88	12.33	1.08
Reach1	2200.5*	SCS II 100yr	6.37	158.05	158.49	158.50	158.67	0.013495	1.87	3.60	11.63	1.03
Reach1	2200.5*	SCS II 50yr	5.71	158.05	158.47	158.48	158.63	0.013121	1.78	3.37	11.50	1.01
Reach1	2200.34	Check	8.28	157.94	158.48	158.44	158.64	0.009273	1.83	4.86	12.24	0.89
Reach1	2200.34	Hazel	10.19	157.94	158.54	158.50	158.73	0.009005	1.97	5.61	12.61	0.90
Reach1	2200.34	SCS II 100yr	6.37	157.94	158.41	158.38	158.55	0.009345	1.66	4.09	11.84	0.87
Reach1	2200.34	SCS II 50yr	5.71	157.94	158.39	158.36	158.51	0.009374	1.60	3.80	11.69	0.86
Reach1	2200.17*	Check	8.28	157.82	158.37	158.35	158.55	0.009615	1.87	4.68	11.98	0.91
Reach1	2200.17*	Hazel	10.19	157.82	158.43	158.41	158.63	0.009720	2.03	5.35	12.34	0.93
Reach1	2200.17*	SCS II 100yr	6.37	157.82	158.31	158.29	158.45	0.009844	1.70	3.93	11.56	0.89
Reach1	2200.17*	SCS II 50yr	5.71	157.82	158.29	158.26	158.42	0.009889	1.63	3.64	11.39	0.88
Reach1	2200*	Check	8.28	157.70	158.26	158.25	158.45	0.010804	1.94	4.43	11.79	0.96
Reach1	2200*	Hazel	10.19	157.70	158.32	158.31	158.53	0.010424	2.08	5.14	12.23	0.96
Reach1	2200*	SCS II 100yr	6.37	157.70	158.20	158.18	158.35	0.010902	1.76	3.72	11.27	0.94
Reach1	2200*	SCS II 50yr	5.71	157.70	158.17	158.16	158.32	0.010994	1.69	3.46	11.07	0.93
Reach1	2199.84*	Check	8.28	157.58	158.15	158.14	158.34	0.010767	1.94	4.39	11.79	0.95
Reach1	2199.84*	Hazel	10.19	157.58	158.20	158.20	158.43	0.010941	2.12	5.02	12.19	0.98
Reach1	2199.84*	SCS II 100yr	6.37	157.58	158.09	158.07	158.25	0.010854	1.76	3.68	11.10	0.93
Reach1	2199.84*	SCS II 50yr	5.71	157.58	158.07	158.05	158.21	0.010684	1.67	3.45	10.86	0.92
Reach1	2199.67*	Check	8.28	157.47	158.03	158.03	158.23	0.011601	1.99	4.30	11.74	0.99
Reach1	2199.67*	Hazel	10.19	157.47	158.09	158.09	158.32	0.011410	2.14	4.97	12.15	1.00
Reach1	2199.67*	SCS II 100yr	6.37	157.47	157.97	157.96	158.14	0.011471	1.79	3.63	11.35	0.96
Reach1	2199.67*	SCS II 50yr	5.71	157.47	157.95	157.94	158.10	0.011681	1.72	3.36	11.09	0.95
Reach1	2199.5*	Check	8.28	157.35	157.91	157.92	158.11	0.012223	2.01	4.27	11.86	1.01
Reach1	2199.5*	Hazel	10.19	157.35	157.96	157.98	158.20	0.012351	2.19	4.89	12.24	1.03
Reach1	2199.5*	SCS II 100yr	6.37	157.35	157.85	157.85	158.02	0.012282	1.82	3.59	11.44	0.98
Reach1	2199.5*	SCS II 50yr	5.71	157.35	157.83	157.83	157.98	0.012023	1.73	3.36	11.32	0.96
Reach1	2199.34	Check	8.28	157.23	157.79	157.80	157.99	0.012749	2.03	4.30	12.13	1.02
Reach1	2199.34	Hazel	10.19	157.23	157.84	157.86	158.08	0.012865	2.21	4.91	12.36	1.05
Reach1	2199.34	SCS II 100yr	6.37	157.23	157.73	157.73	157.90	0.012372	1.82	3.65	11.78	0.98
Reach1	2199.34	SCS II 50yr	5.71	157.23	157.71	157.71	157.86	0.012618	1.75	3.37	11.56	0.98
Reach1	2199.23*	Check	8.28	157.10	157.65	157.67	157.87	0.014001	2.10	4.11	11.87	1.07
Reach1	2199.23*	Hazel	10.19	157.10	157.70	157.73	157.96	0.013687	2.26	4.75	12.25	1.08
Reach1	2199.23*	SCS II 100yr	6.37	157.10	157.59	157.61	157.78	0.014658	1.92	3.40	11.41	1.07
Reach1	2199.23*	SCS II 50yr	5.71	157.10	157.57	157.58	157.74	0.014622	1.84	3.17	11.28	1.05
Reach1	2199.12*	Check	8.28	156.97	157.53	157.55	157.75	0.013442	2.07	4.12	11.69	1.05
Reach1	2199.12*	Hazel	10.19	156.97	157.58	157.61	157.84	0.013618	2.26	4.71	12.07	1.08
Reach1	2199.12*	SCS II 100yr	6.37	156.97	157.48	157.48	157.65	0.012416	1.83	3.56	11.40	0.99
Reach1	2199.12*	SCS II 50yr	5.71	156.97	157.45	157.46	157.61	0.013029	1.78	3.26	11.20	1.00
Reach1	2199.01*	Check	8.28	156.84	157.40	157.42	157.62	0.014194	2.11	4.01	11.55	1.08
Reach1	2199.01*	Hazel	10.19	156.84	157.45	157.48	157.71	0.014020	2.28	4.63	11.87	1.10
Reach1	2199.01*	SCS II 100yr	6.37	156.84	157.33	157.35	157.52	0.015121	1.94	3.31	10.90	1.08
Reach1	2199.01*	SCS II 50yr	5.71	156.84	157.31	157.33	157.49	0.014883	1.85	3.10	10.66	1.06
Reach1	2198.9*	Check	8.28	156.71	157.27	157.29	157.49	0.013822	2.10	4.03	11.36	1.07

HEC-RAS Plan: Prop River: ShoreacresWest Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	2198.9*	Hazel	10.19	156.71	157.32	157.35	157.59	0.013974	2.28	4.61	11.76	1.09
Reach1	2198.9*	SCS II 100yr	6.37	156.71	157.22	157.22	157.40	0.012744	1.84	3.49	10.87	1.00
Reach1	2198.9*	SCS II 50yr	5.71	156.71	157.20	157.20	157.36	0.013219	1.78	3.22	10.62	1.01
Reach1	2198.79*	Check	8.28	156.58	157.14	157.16	157.37	0.014296	2.12	3.98	11.17	1.08
Reach1	2198.79*	Hazel	10.19	156.58	157.19	157.23	157.46	0.014168	2.29	4.57	11.59	1.10
Reach1	2198.79*	SCS II 100yr	6.37	156.58	157.08	157.10	157.27	0.015054	1.94	3.31	10.62	1.08
Reach1	2198.79*	SCS II 50yr	5.71	156.58	157.06	157.07	157.23	0.014838	1.85	3.10	10.44	1.06
Reach1	2198.68*	Check	8.28	156.46	157.01	157.03	157.24	0.014512	2.13	3.96	11.02	1.09
Reach1	2198.68*	Hazel	10.19	156.46	157.06	157.10	157.33	0.014466	2.31	4.53	11.45	1.11
Reach1	2198.68*	SCS II 100yr	6.37	156.46	156.96	156.97	157.14	0.013406	1.87	3.43	10.66	1.03
Reach1	2198.68*	SCS II 50yr	5.71	156.46	156.94	156.94	157.10	0.013780	1.81	3.18	10.47	1.03
Reach1	2198.57*	Check	8.28	156.33	156.88	156.90	157.11	0.014596	2.13	3.96	11.00	1.09
Reach1	2198.57*	Hazel	10.19	156.33	156.93	156.96	157.20	0.014612	2.31	4.52	11.35	1.12
Reach1	2198.57*	SCS II 100yr	6.37	156.33	156.82	156.84	157.01	0.015139	1.94	3.32	10.56	1.08
Reach1	2198.57*	SCS II 50yr	5.71	156.33	156.80	156.81	156.97	0.014968	1.85	3.11	10.42	1.07
Reach1	2198.46*	Check	8.28	156.20	156.75	156.77	156.98	0.014431	2.12	3.99	11.04	1.09
Reach1	2198.46*	Hazel	10.19	156.20	156.80	156.83	157.07	0.014476	2.31	4.55	11.38	1.11
Reach1	2198.46*	SCS II 100yr	6.37	156.20	156.70	156.71	156.88	0.013370	1.87	3.46	10.71	1.02
Reach1	2198.46*	SCS II 50yr	5.71	156.20	156.68	156.68	156.84	0.013676	1.80	3.21	10.54	1.02
Reach1	2198.34	Check	8.28	156.07	156.69	156.64	156.85	0.008035	1.77	4.84	11.55	0.83
Reach1	2198.34	Hazel	10.19	156.07	156.82	156.70	156.96	0.005203	1.69	6.41	12.35	0.70
Reach1	2198.34	SCS II 100yr	6.37	156.07	156.62	156.57	156.75	0.008266	1.61	4.05	11.13	0.82
Reach1	2198.34	SCS II 50yr	5.71	156.07	156.60	156.55	156.72	0.008349	1.55	3.77	10.96	0.82
Reach1	2198.14*	Check	8.28	156.00	156.62	156.57	156.78	0.007945	1.79	4.79	11.28	0.83
Reach1	2198.14*	Hazel	10.19	156.00	156.80	156.92	156.92	0.004174	1.59	6.82	12.35	0.64
Reach1	2198.14*	SCS II 100yr	6.37	156.00	156.55	156.51	156.69	0.008187	1.62	4.01	10.83	0.82
Reach1	2198.14*	SCS II 50yr	5.71	156.00	156.53	156.65	156.65	0.008281	1.56	3.72	10.65	0.82
Reach1	2197.94*	Check	8.28	155.93	156.56	156.51	156.72	0.007823	1.80	4.75	11.02	0.83
Reach1	2197.94*	Hazel	10.19	155.93	156.78	156.89	156.89	0.003308	1.50	7.29	12.40	0.57
Reach1	2197.94*	SCS II 100yr	6.37	155.93	156.49	156.62	156.62	0.008086	1.63	3.97	10.53	0.82
Reach1	2197.94*	SCS II 50yr	5.71	155.93	156.46	156.58	156.58	0.008180	1.57	3.68	10.34	0.81
Reach1	2197.74*	Check	8.28	155.86	156.50	156.44	156.66	0.007570	1.79	4.74	10.72	0.82
Reach1	2197.74*	Hazel	10.19	155.86	156.76	156.86	156.86	0.002629	1.41	7.81	12.56	0.52
Reach1	2197.74*	SCS II 100yr	6.37	155.86	156.42	156.56	156.56	0.007836	1.63	3.95	10.21	0.81
Reach1	2197.74*	SCS II 50yr	5.71	155.86	156.39	156.52	156.52	0.007962	1.57	3.67	10.01	0.81
Reach1	2197.54*	Check	8.28	155.79	156.44	156.37	156.60	0.006947	1.77	4.80	10.53	0.79
Reach1	2197.54*	Hazel	10.19	155.79	156.75	156.84	156.84	0.002088	1.33	8.41	12.81	0.47
Reach1	2197.54*	SCS II 100yr	6.37	155.79	156.37	156.50	156.50	0.007075	1.60	4.02	9.95	0.77
Reach1	2197.54*	SCS II 50yr	5.71	155.79	156.34	156.46	156.46	0.007161	1.54	3.74	9.73	0.77
Reach1	2197.34	Check	8.28	155.72	156.30	156.30	156.52	0.011722	2.09	3.99	9.58	1.00
Reach1	2197.34	Hazel	10.19	155.72	156.74	156.82	156.82	0.001682	1.25	9.05	13.30	0.42
Reach1	2197.34	SCS II 100yr	6.37	155.72	156.23	156.23	156.42	0.012686	1.93	3.31	8.96	1.01
Reach1	2197.34	SCS II 50yr	5.71	155.72	156.20	156.20	156.38	0.012839	1.86	3.07	8.73	1.00
Reach1	2197.27*	Check	8.28	155.60	156.14	156.18	156.41	0.015703	2.26	3.68	9.72	1.14
Reach1	2197.27*	Hazel	10.19	155.60	156.75	156.80	156.80	0.001025	1.06	11.00	14.39	0.34
Reach1	2197.27*	SCS II 100yr	6.37	155.60	156.09	156.11	156.30	0.015256	2.02	3.15	9.23	1.09
Reach1	2197.27*	SCS II 50yr	5.71	155.60	156.07	156.08	156.26	0.015182	1.94	2.95	9.03	1.08
Reach1	2197.2*	Check	8.28	155.49	156.13	156.06	156.29	0.007226	1.77	4.82	11.01	0.80
Reach1	2197.2*	Hazel	10.19	155.49	156.75	156.79	156.79	0.000655	0.92	13.06	15.19	0.28
Reach1	2197.2*	SCS II 100yr	6.37	155.49	155.99	155.99	156.17	0.013063	1.91	3.35	9.78	1.02
Reach1	2197.2*	SCS II 50yr	5.71	155.49	155.96	155.96	156.13	0.013008	1.84	3.12	9.57	1.01
Reach1	2197.1*	Check	8.28	155.38	156.13	156.23	156.23	0.003292	1.38	6.40	12.22	0.56
Reach1	2197.1*	Hazel	10.19	155.38	156.75	156.78	156.78	0.000439	0.80	15.16	15.71	0.23
Reach1	2197.1*	SCS II 100yr	6.37	155.38	155.85	155.87	156.05	0.015379	2.00	3.22	10.06	1.10
Reach1	2197.1*	SCS II 50yr	5.71	155.38	155.83	155.84	156.01	0.015419	1.92	2.99	9.84	1.09
Reach1	2197*	Check	8.28	155.26	156.14	156.20	156.20	0.001688	1.12	8.16	13.25	0.41
Reach1	2197*	Hazel	10.19	155.26	156.76	156.78	156.78	0.000304	0.71	17.30	16.15	0.19
Reach1	2197*	SCS II 100yr	6.37	155.26	155.74	155.75	155.92	0.013729	1.92	3.39	10.59	1.04
Reach1	2197*	SCS II 50yr	5.71	155.26	155.72	155.72	155.89	0.013349	1.83	3.18	10.43	1.02
Reach1	2196.95*	Check	8.28	155.15	156.14	156.18	156.18	0.000962	0.93	9.99	13.97	0.32
Reach1	2196.95*	Hazel	10.19	155.15	156.76	156.78	156.78	0.000219	0.64	19.43	16.58	0.17
Reach1	2196.95*	SCS II 100yr	6.37	155.15	155.71	155.63	155.82	0.006165	1.49	4.47	11.48	0.72

HEC-RAS Plan: Prop River: ShoreacresWest Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	2196.95*	SCS II 50yr	5.71	155.15	155.58	155.60	155.77	0.015447	1.90	3.08	10.56	1.09
Reach1	2196.9	Check	8.28	155.04	156.14		156.17	0.000586	0.79	11.91	14.55	0.26
Reach1	2196.9	Hazel	10.19	155.04	156.76		156.77	0.000161	0.58	21.62	17.05	0.15
Reach1	2196.9	SCS II 100yr	6.37	155.04	155.71		155.77	0.002557	1.13	6.04	12.50	0.49
Reach1	2196.9	SCS II 50yr	5.71	155.04	155.59	155.48	155.67	0.004828	1.31	4.57	11.67	0.64
Reach1	2196.82*	Check	8.28	154.92	156.14		156.17	0.000390	0.69	14.28	16.40	0.21
Reach1	2196.82*	Hazel	10.19	154.92	156.76		156.77	0.000123	0.53	25.56	21.76	0.13
Reach1	2196.82*	SCS II 100yr	6.37	154.92	155.71		155.75	0.001369	0.93	7.67	14.04	0.37
Reach1	2196.82*	SCS II 50yr	5.71	154.92	155.58		155.63	0.002330	1.05	5.92	13.09	0.46
Reach1	2196.74*	Check	8.28	154.79	156.14		156.16	0.000265	0.61	17.16	18.82	0.18
Reach1	2196.74*	Hazel	10.19	154.79	156.76		156.77	0.000092	0.47	31.45	29.97	0.11
Reach1	2196.74*	SCS II 100yr	6.37	154.79	155.71		155.74	0.000784	0.78	9.62	15.81	0.28
Reach1	2196.74*	SCS II 50yr	5.71	154.79	155.58		155.61	0.001217	0.85	7.62	14.85	0.34
Reach1	2196.66*	Check	8.28	154.67	156.14		156.16	0.000186	0.54	20.89	23.36	0.15
Reach1	2196.66*	Hazel	10.19	154.67	156.76		156.77	0.000064	0.41	40.10	37.68	0.09
Reach1	2196.66*	SCS II 100yr	6.37	154.67	155.71		155.73	0.000472	0.66	12.03	18.24	0.23
Reach1	2196.66*	SCS II 50yr	5.71	154.67	155.58		155.60	0.000679	0.71	9.73	17.01	0.26
Reach1	2196.58*	Check	8.28	154.55	156.15		156.15	0.000128	0.47	26.73	32.32	0.13
Reach1	2196.58*	Hazel	10.19	154.55	156.76		156.77	0.000043	0.35	51.84	46.77	0.08
Reach1	2196.58*	SCS II 100yr	6.37	154.55	155.71		155.72	0.000295	0.56	15.12	21.68	0.18
Reach1	2196.58*	SCS II 50yr	5.71	154.55	155.58		155.59	0.000402	0.59	12.39	20.08	0.21
Reach1	2196.5*	Check	8.28	154.42	156.15		156.15	0.000084	0.40	35.83	44.95	0.10
Reach1	2196.5*	Hazel	10.19	154.42	156.76		156.76	0.000028	0.29	67.47	56.52	0.06
Reach1	2196.5*	SCS II 100yr	6.37	154.42	155.71		155.72	0.000192	0.48	19.59	29.94	0.15
Reach1	2196.5*	SCS II 50yr	5.71	154.42	155.58		155.59	0.000247	0.50	15.97	25.24	0.17
Reach1	2196.42*	Check	8.28	154.30	156.15		156.15	0.000049	0.32	49.44	55.82	0.08
Reach1	2196.42*	Hazel	10.19	154.30	156.76		156.76	0.000017	0.23	86.13	61.05	0.05
Reach1	2196.42*	SCS II 100yr	6.37	154.30	155.71		155.72	0.000114	0.40	27.54	42.64	0.12
Reach1	2196.42*	SCS II 50yr	5.71	154.30	155.58		155.59	0.000150	0.42	22.21	38.32	0.13
Reach1	2196.34	Check	8.28	154.18	156.15		156.15	0.000027	0.25	66.80	65.04	0.06
Reach1	2196.34	Hazel	10.19	154.18	156.76		156.76	0.000010	0.19	107.09	65.57	0.04
Reach1	2196.34	SCS II 100yr	6.37	154.18	155.71		155.72	0.000060	0.30	40.10	55.97	0.09
Reach1	2196.34	SCS II 50yr	5.71	154.18	155.58		155.58	0.000077	0.32	33.06	51.27	0.10
Reach1	2195.340	Check	8.28	154.07	156.04	155.14	156.14	0.000867	1.40	5.93	115.11	0.34
Reach1	2195.340	Hazel	10.19	154.07	156.67	155.27	156.76	0.000468	1.26	8.08	127.23	0.26
Reach1	2195.340	SCS II 100yr	6.37	154.07	155.60	155.00	155.70	0.001354	1.44	4.43	102.66	0.40
Reach1	2195.340	SCS II 50yr	5.71	154.07	155.47	154.95	155.57	0.001542	1.43	3.99	98.54	0.42
Reach1	2170.540		Culvert									
Reach1	2144.030	Check	8.28	153.78	154.75	154.75	155.15	0.009669	2.83	3.12	63.52	0.99
Reach1	2144.030	Hazel	10.19	153.78	154.87	154.87	155.32	0.009247	3.02	3.60	66.95	0.99
Reach1	2144.030	SCS II 100yr	6.37	153.78	154.62	154.62	154.96	0.010127	2.59	2.60	60.15	0.98
Reach1	2144.030	SCS II 50yr	5.71	153.78	154.58	154.58	154.89	0.010145	2.48	2.43	59.27	0.97
Reach1	2124.588	Check	8.28	152.83	153.28	153.52	154.42	0.201864	4.73	1.75	9.87	3.57
Reach1	2124.588	Hazel	10.19	152.83	153.31	153.58	154.59	0.189246	5.02	2.03	10.10	3.54
Reach1	2124.588	SCS II 100yr	6.37	152.83	153.25	153.45	154.23	0.211762	4.39	1.45	9.40	3.57
Reach1	2124.588	SCS II 50yr	5.71	152.83	153.24	153.43	154.17	0.216632	4.27	1.34	9.19	3.58
Reach1	2068.189	Check	8.28	152.51	153.21	152.79	153.22	0.001105	0.65	17.50	31.45	0.31
Reach1	2068.189	Hazel	10.19	152.51	153.38	152.83	153.39	0.000723	0.63	22.96	33.83	0.26
Reach1	2068.189	SCS II 100yr	6.37	152.51	153.04	152.74	153.05	0.002039	0.67	12.32	29.67	0.39
Reach1	2068.189	SCS II 50yr	5.71	152.51	152.98	152.72	153.00	0.002623	0.68	10.66	28.94	0.43
Reach1	1988.958	Check	8.28	151.86	153.03	152.48	153.11	0.001122	1.21	6.83	16.69	0.36
Reach1	1988.958	Hazel	10.19	151.86	153.21	152.56	153.29	0.001052	1.29	7.88	17.88	0.36
Reach1	1988.958	SCS II 100yr	6.37	151.86	152.84	152.39	152.91	0.001235	1.12	5.67	15.37	0.37
Reach1	1988.958	SCS II 50yr	5.71	151.86	152.77	152.35	152.83	0.001282	1.09	5.25	13.02	0.37
Reach1	1960.088		Culvert									
Reach1	1861.187	Check	8.28	150.82	151.50	151.45	151.73	0.007874	2.15	3.86	14.80	0.87
Reach1	1861.187	Hazel	10.19	150.82	151.55	151.53	151.85	0.009393	2.46	4.14	15.18	0.96
Reach1	1861.187	SCS II 100yr	6.37	150.82	151.44	151.35	151.61	0.006459	1.82	3.50	14.31	0.78
Reach1	1861.187	SCS II 50yr	5.71	150.82	151.42	151.32	151.57	0.005973	1.70	3.35	14.12	0.74
Reach1	1800	Check	8.28	150.69	151.27		151.33	0.003670	1.16	7.44	18.73	0.56

HEC-RAS Plan: Prop River: ShoreacresWest Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	1800	Hazel	10.19	150.69	151.33		151.41	0.003543	1.25	8.62	19.39	0.56
Reach1	1800	SCS II 100yr	6.37	150.69	151.20		151.25	0.003855	1.06	6.18	17.99	0.56
Reach1	1800	SCS II 50yr	5.71	150.69	151.17		151.22	0.003955	1.03	5.73	17.52	0.56
Reach1	1700	Check	8.28	149.92	150.68		150.80	0.007729	1.55	5.33	13.72	0.80
Reach1	1700	Hazel	10.19	149.92	150.74		150.88	0.007961	1.65	6.18	14.87	0.82
Reach1	1700	SCS II 100yr	6.37	149.92	150.61		150.72	0.007550	1.45	4.40	12.37	0.78
Reach1	1700	SCS II 50yr	5.71	149.92	150.58		150.68	0.007451	1.40	4.06	11.84	0.77
Reach1	1600	Check	8.28	149.44	150.21	150.05	150.27	0.003639	1.16	7.33	18.52	0.56
Reach1	1600	Hazel	10.19	149.44	150.26	150.10	150.34	0.003613	1.26	8.45	19.76	0.57
Reach1	1600	SCS II 100yr	6.37	149.44	150.14		150.19	0.003637	1.06	6.09	17.06	0.55
Reach1	1600	SCS II 50yr	5.71	149.44	150.11		150.16	0.003650	1.03	5.63	16.49	0.54
Reach1	1500.000	Check	8.28	148.92	149.61	149.56	149.73	0.008867	1.54	5.38	15.94	0.84
Reach1	1500.000	Hazel	10.19	148.92	149.65	149.61	149.80	0.009063	1.67	6.15	17.05	0.86
Reach1	1500.000	SCS II 100yr	6.37	148.92	149.55	149.50	149.65	0.008740	1.42	4.49	14.53	0.82
Reach1	1500.000	SCS II 50yr	5.71	148.92	149.52	149.47	149.62	0.008636	1.38	4.15	13.96	0.81
Reach1	1395.564	Check	8.28	147.81	148.45	148.45	148.62	0.012891	1.83	4.53	13.47	1.00
Reach1	1395.564	Hazel	10.19	147.81	148.50	148.50	148.69	0.012400	1.92	5.30	14.49	1.00
Reach1	1395.564	SCS II 100yr	6.37	147.81	148.38	148.38	148.53	0.013301	1.72	3.69	12.24	1.00
Reach1	1395.564	SCS II 50yr	5.71	147.81	148.36	148.36	148.50	0.013566	1.69	3.38	11.75	1.00
Reach1	1317.536	Check	8.28	147.20	147.99	147.70	148.04	0.001598	0.90	9.36	18.02	0.38
Reach1	1317.536	Hazel	10.19	147.20	148.16	147.76	148.20	0.001021	0.83	12.60	19.98	0.32
Reach1	1317.536	SCS II 100yr	6.37	147.20	147.81	147.64	147.86	0.003186	1.02	6.27	15.93	0.51
Reach1	1317.536	SCS II 50yr	5.71	147.20	147.75	147.62	147.81	0.004435	1.09	5.23	15.12	0.59
Reach1	1296.674	Check	8.28	146.84	147.89	147.51	147.98	0.001899	1.37	6.05	17.79	0.46
Reach1	1296.674	Hazel	10.19	146.84	148.05	147.60	148.15	0.001679	1.43	7.11	19.33	0.44
Reach1	1296.674	SCS II 100yr	6.37	146.84	147.71	147.43	147.80	0.002268	1.30	4.90	16.26	0.48
Reach1	1296.674	SCS II 50yr	5.71	146.84	147.65	147.40	147.73	0.002466	1.28	4.48	15.70	0.50
Reach1	1271.575	Culvert										
Reach1	1246.083	Check	8.28	146.03	146.39	146.77	149.86	0.787762	8.25	1.00	19.59	6.86
Reach1	1246.083	Hazel	10.19	146.03	146.45	146.86	149.00	0.355904	7.06	1.44	20.45	4.90
Reach1	1246.083	SCS II 100yr	6.37	146.03	146.32	146.69	153.24	3.528280	11.65	0.55	18.70	13.13
Reach1	1246.083	SCS II 50yr	5.71	146.03	146.30	146.66	157.61	9.183477	14.90	0.38	18.34	19.98
Reach1	1225.942	Check	8.28	145.94	146.35	146.29	146.43	0.006735	1.31	8.10	30.24	0.73
Reach1	1225.942	Hazel	10.19	145.94	146.40	146.33	146.48	0.006629	1.41	9.44	31.82	0.74
Reach1	1225.942	SCS II 100yr	6.37	145.94	146.18	146.25	146.41	0.055042	2.26	3.32	23.88	1.83
Reach1	1225.942	SCS II 50yr	5.71	145.94	146.15	146.23	146.43	0.084530	2.46	2.68	22.77	2.20
Reach1	1217.3*	Check	8.28	145.88	146.30		146.37	0.005726	1.24	8.77	32.19	0.67
Reach1	1217.3*	Hazel	10.19	145.88	146.35		146.42	0.005587	1.33	10.27	33.86	0.68
Reach1	1217.3*	SCS II 100yr	6.37	145.88	146.25	146.18	146.31	0.005978	1.14	7.18	30.16	0.67
Reach1	1217.3*	SCS II 50yr	5.71	145.88	146.23	146.17	146.29	0.006107	1.10	6.60	29.38	0.67
Reach1	1208.7*	Check	8.28	145.81	146.27		146.32	0.004026	1.10	10.22	35.03	0.57
Reach1	1208.7*	Hazel	10.19	145.81	146.32		146.38	0.004012	1.19	11.91	37.07	0.58
Reach1	1208.7*	SCS II 100yr	6.37	145.81	146.22		146.26	0.004163	1.01	8.38	32.90	0.57
Reach1	1208.7*	SCS II 50yr	5.71	145.81	146.20		146.24	0.004255	0.98	7.69	32.08	0.57
Reach1	1200	Check	8.28	145.75	146.26		146.29	0.002481	0.94	12.61	39.72	0.46
Reach1	1200	Hazel	10.19	145.75	146.30		146.35	0.002542	1.02	14.56	41.66	0.47
Reach1	1200	SCS II 100yr	6.37	145.75	146.20		146.23	0.002441	0.85	10.48	37.19	0.45
Reach1	1200	SCS II 50yr	5.71	145.75	146.18		146.21	0.002434	0.81	9.69	36.17	0.44
Reach1	1190.91*	Check	8.28	145.70	146.23		146.27	0.002596	0.96	12.39	40.54	0.47
Reach1	1190.91*	Hazel	10.19	145.70	146.28		146.32	0.002654	1.04	14.35	42.66	0.48
Reach1	1190.91*	SCS II 100yr	6.37	145.70	146.18		146.21	0.002551	0.87	10.25	37.58	0.46
Reach1	1190.91*	SCS II 50yr	5.71	145.70	146.15		146.18	0.002555	0.83	9.45	36.52	0.45
Reach1	1181.82*	Check	8.28	145.64	146.21		146.25	0.002648	0.97	12.25	41.25	0.47
Reach1	1181.82*	Hazel	10.19	145.64	146.25		146.30	0.002717	1.05	14.21	43.61	0.49
Reach1	1181.82*	SCS II 100yr	6.37	145.64	146.15		146.18	0.002607	0.88	10.09	38.21	0.46
Reach1	1181.82*	SCS II 50yr	5.71	145.64	146.13		146.16	0.002615	0.85	9.27	36.99	0.46
Reach1	1172.73*	Check	8.28	145.59	146.18		146.22	0.002764	0.99	12.02	42.04	0.48
Reach1	1172.73*	Hazel	10.19	145.59	146.22		146.27	0.002846	1.07	13.99	44.76	0.50
Reach1	1172.73*	SCS II 100yr	6.37	145.59	146.12		146.16	0.002741	0.90	9.83	38.80	0.47
Reach1	1172.73*	SCS II 50yr	5.71	145.59	146.10		146.14	0.002772	0.87	8.99	37.50	0.47
Reach1	1163.64*	Check	8.28	145.54	146.15		146.19	0.002930	1.01	11.73	42.99	0.50

HEC-RAS Plan: Prop River: ShoreacresWest Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	1163.64*	Hazel	10.19	145.54	146.19		146.25	0.003027	1.10	13.70	46.16	0.52
Reach1	1163.64*	SCS II 100yr	6.37	145.54	146.10		146.13	0.002928	0.92	9.51	39.30	0.49
Reach1	1163.64*	SCS II 50yr	5.71	145.54	146.07		146.11	0.002979	0.89	8.65	37.66	0.49
Reach1	1154.55*	Check	8.28	145.49	146.12		146.17	0.003103	1.04	11.43	44.57	0.51
Reach1	1154.55*	Hazel	10.19	145.49	146.16		146.22	0.003203	1.12	13.43	48.02	0.53
Reach1	1154.55*	SCS II 100yr	6.37	145.49	146.07		146.11	0.003156	0.95	9.12	40.17	0.50
Reach1	1154.55*	SCS II 50yr	5.71	145.49	146.04		146.08	0.003245	0.92	8.22	37.78	0.51
Reach1	1145.46*	Check	8.28	145.43	146.09		146.14	0.003279	1.06	11.13	46.28	0.53
Reach1	1145.46*	Hazel	10.19	145.43	146.13		146.19	0.003364	1.15	13.17	49.79	0.54
Reach1	1145.46*	SCS II 100yr	6.37	145.43	146.03		146.08	0.003391	0.98	8.71	40.30	0.52
Reach1	1145.46*	SCS II 50yr	5.71	145.43	146.01		146.05	0.003581	0.96	7.74	37.40	0.53
Reach1	1136.37*	Check	8.28	145.38	146.05		146.11	0.003583	1.10	10.70	48.00	0.55
Reach1	1136.37*	Hazel	10.19	145.38	146.10		146.15	0.003559	1.17	12.88	50.76	0.56
Reach1	1136.37*	SCS II 100yr	6.37	145.38	145.99		146.04	0.003701	1.03	8.13	39.79	0.55
Reach1	1136.37*	SCS II 50yr	5.71	145.38	145.97		146.02	0.003846	1.02	7.10	35.67	0.55
Reach1	1127.28*	Check	8.28	145.33	146.01		146.07	0.003883	1.14	10.24	48.97	0.57
Reach1	1127.28*	Hazel	10.19	145.33	146.06		146.12	0.003771	1.20	12.59	51.10	0.57
Reach1	1127.28*	SCS II 100yr	6.37	145.33	145.95		146.01	0.004006	1.09	7.47	38.89	0.57
Reach1	1127.28*	SCS II 50yr	5.71	145.33	145.92		145.98	0.004334	1.09	6.33	34.26	0.59
Reach1	1118.19*	Check	8.28	145.28	145.97		146.03	0.004027	1.18	9.79	49.43	0.58
Reach1	1118.19*	Hazel	10.19	145.28	146.02		146.09	0.003888	1.22	12.33	51.50	0.58
Reach1	1118.19*	SCS II 100yr	6.37	145.28	145.90	145.79	145.97	0.004542	1.16	6.60	38.69	0.61
Reach1	1118.19*	SCS II 50yr	5.71	145.28	145.87		145.94	0.004563	1.12	5.71	29.28	0.60
Reach1	1109.09*	Check	8.28	145.22	145.92	145.81	146.00	0.004496	1.25	8.94	49.56	0.62
Reach1	1109.09*	Hazel	10.19	145.22	145.98	145.89	146.05	0.004056	1.26	11.86	51.71	0.59
Reach1	1109.09*	SCS II 100yr	6.37	145.22	145.85		145.92	0.004984	1.21	5.82	28.08	0.64
Reach1	1109.09*	SCS II 50yr	5.71	145.22	145.82		145.89	0.005029	1.18	5.16	19.39	0.63
Reach1	1099.999	Check	8.28	145.17	145.83	145.77	145.94	0.006760	1.47	6.54	42.38	0.75
Reach1	1099.999	Hazel	10.19	145.17	145.88	145.86	146.00	0.007095	1.58	8.39	47.74	0.78
Reach1	1099.999	SCS II 100yr	6.37	145.17	145.78		145.87	0.006477	1.34	4.98	16.57	0.72
Reach1	1099.999	SCS II 50yr	5.71	145.17	145.76		145.84	0.006378	1.28	4.62	15.93	0.71
Reach1	1090.7*	Check	8.28	145.10	145.75	145.72	145.87	0.008357	1.56	6.27	37.98	0.82
Reach1	1090.7*	Hazel	10.19	145.10	145.79	145.79	145.92	0.008272	1.65	8.05	41.95	0.83
Reach1	1090.7*	SCS II 100yr	6.37	145.10	145.70	145.65	145.80	0.007751	1.40	4.80	22.17	0.78
Reach1	1090.7*	SCS II 50yr	5.71	145.10	145.68	145.62	145.77	0.007590	1.35	4.38	19.07	0.76
Reach1	1081.4*	Check	8.28	145.02	145.69	145.67	145.79	0.007767	1.49	7.28	39.73	0.79
Reach1	1081.4*	Hazel	10.19	145.02	145.74	145.72	145.84	0.006766	1.50	9.58	43.65	0.75
Reach1	1081.4*	SCS II 100yr	6.37	145.02	145.63	145.59	145.73	0.007884	1.38	5.40	27.29	0.78
Reach1	1081.4*	SCS II 50yr	5.71	145.02	145.61	145.57	145.70	0.007792	1.34	4.85	24.35	0.77
Reach1	1072.1*	Check	8.28	144.95	145.66		145.72	0.004444	1.18	10.39	44.99	0.60
Reach1	1072.1*	Hazel	10.19	144.95	145.73		145.78	0.003766	1.18	13.31	49.14	0.57
Reach1	1072.1*	SCS II 100yr	6.37	144.95	145.59	145.52	145.66	0.005732	1.21	7.21	39.55	0.67
Reach1	1072.1*	SCS II 50yr	5.71	144.95	145.56	145.50	145.63	0.006076	1.21	6.19	34.24	0.68
Reach1	1062.79*	Check	8.28	144.87	145.66		145.69	0.002273	0.90	14.76	53.65	0.44
Reach1	1062.79*	Hazel	10.19	144.87	145.72		145.75	0.002006	0.92	18.38	58.59	0.42
Reach1	1062.79*	SCS II 100yr	6.37	144.87	145.58		145.61	0.002686	0.90	10.95	46.86	0.47
Reach1	1062.79*	SCS II 50yr	5.71	144.87	145.55		145.58	0.002906	0.90	9.60	44.43	0.48
Reach1	1053.488	Check	8.28	144.80	145.65		145.67	0.001139	0.68	20.83	65.18	0.32
Reach1	1053.488	Hazel	10.19	144.80	145.72		145.73	0.001029	0.70	25.18	67.89	0.31
Reach1	1053.488	SCS II 100yr	6.37	144.80	145.57		145.59	0.001300	0.68	15.93	59.34	0.33
Reach1	1053.488	SCS II 50yr	5.71	144.80	145.54		145.56	0.001370	0.67	14.19	56.42	0.34
Reach1	1044.23*	Check	8.28	144.80	145.63		145.65	0.001745	0.84	14.58	43.74	0.39
Reach1	1044.23*	Hazel	10.19	144.80	145.69		145.72	0.001640	0.88	17.49	46.61	0.39
Reach1	1044.23*	SCS II 100yr	6.37	144.80	145.55		145.57	0.001918	0.82	11.28	40.05	0.40
Reach1	1044.23*	SCS II 50yr	5.71	144.80	145.52		145.54	0.002003	0.81	10.09	38.46	0.41
Reach1	1034.97*	Check	8.28	144.80	145.59		145.63	0.002567	1.01	11.04	38.15	0.47
Reach1	1034.97*	Hazel	10.19	144.80	145.65		145.70	0.002349	1.04	13.68	40.79	0.46
Reach1	1034.97*	SCS II 100yr	6.37	144.80	145.50		145.55	0.002981	1.00	7.99	34.86	0.50
Reach1	1034.97*	SCS II 50yr	5.71	144.80	145.47		145.52	0.003130	0.99	6.93	31.29	0.51
Reach1	1025.71*	Check	8.28	144.80	145.52	145.38	145.60	0.004300	1.25	7.26	33.85	0.61
Reach1	1025.71*	Hazel	10.19	144.80	145.59	145.44	145.67	0.003830	1.27	9.79	37.00	0.58
Reach1	1025.71*	SCS II 100yr	6.37	144.80	145.45		145.52	0.004330	1.16	5.56	17.76	0.60

HEC-RAS Plan: Prop River: ShoreacresWest Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	1025.71*	SCS II 50yr	5.71	144.80	145.42		145.48	0.004287	1.12	5.11	14.27	0.59
Reach1	1016.452	Check	8.28	144.80	145.36	145.36	145.53	0.012808	1.83	4.53	13.38	1.00
Reach1	1016.452	Hazel	10.19	144.80	145.41	145.41	145.60	0.012456	1.93	5.28	14.06	1.01
Reach1	1016.452	SCS II 100yr	6.37	144.80	145.29	145.29	145.44	0.013427	1.71	3.73	12.60	1.00
Reach1	1016.452	SCS II 50yr	5.71	144.80	145.27	145.27	145.41	0.013684	1.66	3.44	12.31	1.00
Reach1	1008.23*	Check	8.28	144.13	144.59	144.78	145.25	0.088351	3.61	2.29	10.39	2.45
Reach1	1008.23*	Hazel	10.19	144.13	144.63	144.83	145.34	0.081112	3.72	2.74	11.12	2.39
Reach1	1008.23*	SCS II 100yr	6.37	144.13	144.54	144.71	145.16	0.097693	3.48	1.83	9.46	2.52
Reach1	1008.23*	SCS II 50yr	5.71	144.13	144.53	144.69	145.12	0.101559	3.43	1.67	9.06	2.55
Reach1	999.9999	Check	8.28	143.46	144.01	144.19	144.60	0.067105	3.41	2.43	9.69	2.18
Reach1	999.9999	Hazel	10.19	143.46	144.05	144.25	144.71	0.068317	3.61	2.82	10.48	2.23
Reach1	999.9999	SCS II 100yr	6.37	143.46	143.96	144.12	144.48	0.065583	3.18	2.01	8.77	2.12
Reach1	999.9999	SCS II 50yr	5.71	143.46	143.95	144.10	144.43	0.064991	3.08	1.85	8.41	2.10
Reach1	973.3864	Check	8.28	142.68	143.62	143.30	143.67	0.001623	0.95	8.79	15.36	0.39
Reach1	973.3864	Hazel	10.19	142.68	143.70	143.36	143.75	0.001709	1.04	9.93	16.09	0.41
Reach1	973.3864	SCS II 100yr	6.37	142.68	143.54	143.24	143.58	0.001520	0.84	7.56	14.54	0.37
Reach1	973.3864	SCS II 50yr	5.71	142.68	143.51	143.21	143.54	0.001482	0.80	7.11	14.23	0.36
Reach1	900	Check	8.28	142.69	143.23	143.23	143.40	0.012961	1.81	4.58	13.84	1.00
Reach1	900	Hazel	10.19	142.69	143.28	143.28	143.47	0.012535	1.92	5.32	14.37	1.01
Reach1	900	SCS II 100yr	6.37	142.69	143.17	143.17	143.32	0.013641	1.68	3.78	13.25	1.01
Reach1	900	SCS II 50yr	5.71	142.69	143.15	143.15	143.29	0.013827	1.63	3.50	13.04	1.00
Reach1	800	Check	8.28	141.95	142.67	142.47	142.74	0.002923	1.14	7.23	14.13	0.51
Reach1	800	Hazel	10.19	141.95	142.75	142.52	142.83	0.002787	1.21	8.44	14.65	0.51
Reach1	800	SCS II 100yr	6.37	141.95	142.60	142.41	142.65	0.002666	1.02	6.27	13.71	0.48
Reach1	800	SCS II 50yr	5.71	141.95	142.58	142.38	142.62	0.002540	0.96	5.93	13.55	0.46
Reach1	700	Check	8.28	141.75	142.39		142.45	0.002788	1.13	7.34	14.22	0.50
Reach1	700	Hazel	10.19	141.75	142.54		142.60	0.001860	1.07	9.60	15.10	0.42
Reach1	700	SCS II 100yr	6.37	141.75	142.24		142.31	0.004407	1.19	5.35	13.39	0.60
Reach1	700	SCS II 50yr	5.71	141.75	142.20		142.27	0.005158	1.20	4.74	13.12	0.64
Reach1	635.0975	Check	8.28	141.23	142.29		142.33	0.001136	0.88	9.43	13.39	0.33
Reach1	635.0975	Hazel	10.19	141.23	142.47		142.51	0.000884	0.85	11.95	14.69	0.30
Reach1	635.0975	SCS II 100yr	6.37	141.23	142.11		142.15	0.001536	0.91	7.03	11.99	0.38
Reach1	635.0975	SCS II 50yr	5.71	141.23	142.04		142.08	0.001738	0.92	6.23	11.45	0.40
Reach1	611.5417	Check	8.28	141.01	141.79	141.79	142.17	0.009580	2.73	3.03	14.01	1.00
Reach1	611.5417	Hazel	10.19	141.01	141.90	141.90	142.34	0.009225	2.93	3.47	14.85	1.00
Reach1	611.5417	SCS II 100yr	6.37	141.01	141.67	141.67	141.99	0.010291	2.51	2.54	13.05	1.00
Reach1	611.5417	SCS II 50yr	5.71	141.01	141.62	141.62	141.92	0.010489	2.42	2.36	12.70	1.00
Reach1	586.8125		Culvert									
Reach1	562.7833	Check	8.28	140.22	141.21	141.21	141.58	0.010254	2.69	3.08	7.89	1.00
Reach1	562.7833	Hazel	10.19	140.22	141.32	141.32	141.74	0.009832	2.88	3.54	8.76	1.00
Reach1	562.7833	SCS II 100yr	6.37	140.22	141.10	141.10	141.40	0.010856	2.46	2.59	6.95	1.00
Reach1	562.7833	SCS II 50yr	5.71	140.22	141.05	141.05	141.34	0.010996	2.36	2.42	6.63	1.00
Reach1	535.0822	Check	8.28	139.82	140.53	140.70	141.05	0.037006	3.19	2.60	7.25	1.70
Reach1	535.0822	Hazel	10.19	139.82	140.57	140.77	141.19	0.040814	3.49	2.92	7.65	1.81
Reach1	535.0822	SCS II 100yr	6.37	139.82	140.48	140.61	140.89	0.032629	2.84	2.24	6.80	1.58
Reach1	535.0822	SCS II 50yr	5.71	139.82	140.46	140.57	140.83	0.031151	2.71	2.11	6.61	1.53
Reach1	472.7658	Check	8.28	139.33	140.48	140.30	140.54	0.002903	1.13	8.34	20.86	0.51
Reach1	472.7658	Hazel	10.19	139.33	140.57	140.35	140.63	0.002580	1.17	10.19	22.24	0.49
Reach1	472.7658	SCS II 100yr	6.37	139.33	140.39	140.24	140.45	0.003229	1.07	6.58	19.09	0.52
Reach1	472.7658	SCS II 50yr	5.71	139.33	140.36	140.22	140.42	0.003389	1.04	5.96	18.42	0.53
Reach1	400	Check	8.28	139.05	140.07		140.23	0.006947	1.75	4.73	9.14	0.78
Reach1	400	Hazel	10.19	139.05	140.12	140.05	140.32	0.008221	1.96	5.19	9.58	0.85
Reach1	400	SCS II 100yr	6.37	139.05	139.97		140.11	0.007189	1.66	3.83	8.21	0.78
Reach1	400	SCS II 50yr	5.71	139.05	139.93		140.06	0.007197	1.62	3.53	7.87	0.77
Reach1	300.0000	Check	8.28	138.19	139.34	139.21	139.49	0.007753	1.69	5.11	16.75	0.80
Reach1	300.0000	Hazel	10.19	138.19	139.43	139.35	139.58	0.006466	1.71	6.86	24.60	0.75
Reach1	300.0000	SCS II 100yr	6.37	138.19	139.18		139.35	0.007976	1.81	3.52	7.13	0.82
Reach1	300.0000	SCS II 50yr	5.71	138.19	139.14		139.30	0.008055	1.77	3.23	6.83	0.82
Reach1	219.1325	Check	8.28	137.64	138.65	138.59	138.83	0.008492	1.89	4.39	8.90	0.86
Reach1	219.1325	Hazel	10.19	137.64	138.72	138.67	138.93	0.010034	2.01	5.06	10.58	0.93
Reach1	219.1325	SCS II 100yr	6.37	137.64	138.58	138.49	138.72	0.007338	1.68	3.79	8.17	0.79

HEC-RAS Plan: Prop River: ShoreacresWest Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	219.1325	SCS II 50yr	5.71	137.64	138.55	138.46	138.68	0.007122	1.62	3.52	7.83	0.77
Reach1	201.5826	Check	8.28	137.57	138.45	138.45	138.65	0.012368	1.97	4.21	10.88	1.00
Reach1	201.5826	Hazel	10.19	137.57	138.53	138.53	138.73	0.012118	1.98	5.16	13.77	1.00
Reach1	201.5826	SCS II 100yr	6.37	137.57	138.35	138.35	138.54	0.012429	1.95	3.27	8.47	1.00
Reach1	201.5826	SCS II 50yr	5.71	137.57	138.32	138.32	138.50	0.012479	1.90	3.00	8.07	1.00
Reach1	178.5542	Culvert										
Reach1	155.4218	Check	8.28	137.34	138.25	138.21	138.42	0.009336	1.83	4.52	70.76	0.89
Reach1	155.4218	Hazel	10.19	137.34	138.30	138.30	138.50	0.011610	1.96	5.20	78.02	0.98
Reach1	155.4218	SCS II 100yr	6.37	137.34	138.20	138.12	138.33	0.007266	1.57	4.06	66.31	0.78
Reach1	155.4218	SCS II 50yr	5.71	137.34	138.18	138.09	138.29	0.006590	1.47	3.88	64.45	0.74
Reach1	129.5606	Check	8.28	137.34	138.08	138.05	138.14	0.007486	1.46	11.30	56.70	0.77
Reach1	129.5606	Hazel	10.19	137.34	138.14	138.10	138.17	0.007162	1.10	15.28	73.17	0.71
Reach1	129.5606	SCS II 100yr	6.37	137.34	138.03	138.02	138.09	0.007807	1.43	8.82	49.23	0.78
Reach1	129.5606	SCS II 50yr	5.71	137.34	138.01	138.00	138.08	0.007905	1.41	7.99	44.97	0.78
Reach1	5.996320	Check	8.28	136.84	137.55	137.41	137.60	0.003755	1.13	9.91	32.76	0.56
Reach1	5.996320	Hazel	10.19	136.84	137.60	137.46	137.66	0.003754	1.19	11.84	36.80	0.57
Reach1	5.996320	SCS II 100yr	6.37	136.84	137.48	137.36	137.53	0.003756	1.05	7.95	28.76	0.55
Reach1	5.996320	SCS II 50yr	5.71	136.84	137.46	137.34	137.50	0.003757	1.01	7.27	27.37	0.54

HEC-RAS Plan: Prop River: ShoreacresEast Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	5370.179	Check	9.27	214.16	215.31	215.31	215.63	0.011741	2.48	3.73	6.03	1.01
Reach1	5370.179	Hazel	7.15	214.16	215.19	215.19	215.47	0.012042	2.36	3.03	5.40	1.00
Reach1	5370.179	SCS II 100yr	7.13	214.16	215.19	215.19	215.47	0.011831	2.34	3.05	5.41	0.99
Reach1	5370.179	SCS II 50yr	6.41	214.16	215.15	215.15	215.41	0.012029	2.29	2.79	5.16	1.00
Reach1	5355.084	Check	9.27	214.01	214.56	214.76	215.24	0.071164	3.63	2.55	9.71	2.26
Reach1	5355.084	Hazel	7.15	214.01	214.52	214.69	215.09	0.066739	3.34	2.14	8.76	2.16
Reach1	5355.084	SCS II 100yr	7.13	214.01	214.52	214.69	215.09	0.067236	3.35	2.13	8.73	2.17
Reach1	5355.084	SCS II 50yr	6.41	214.01	214.50	214.67	215.03	0.065188	3.24	1.98	8.37	2.12
Reach1	5298.129	Check	9.27	212.90	213.62	213.62	213.82	0.012362	2.00	4.64	11.61	1.01
Reach1	5298.129	Hazel	7.15	212.90	213.54	213.54	213.72	0.012998	1.88	3.79	10.78	1.01
Reach1	5298.129	SCS II 100yr	7.13	212.90	213.54	213.54	213.72	0.013004	1.88	3.79	10.77	1.01
Reach1	5298.129	SCS II 50yr	6.41	212.90	213.51	213.51	213.69	0.013218	1.83	3.49	10.47	1.01
Reach1	5244.323	Check	9.27	211.07	211.56	211.76	212.33	0.094191	3.91	2.46	10.85	2.55
Reach1	5244.323	Hazel	7.15	211.07	211.52	211.69	212.17	0.098141	3.59	2.05	10.56	2.54
Reach1	5244.323	SCS II 100yr	7.13	211.07	211.52	211.69	212.17	0.097013	3.57	2.06	10.56	2.52
Reach1	5244.323	SCS II 50yr	6.41	211.07	211.51	211.67	212.11	0.099848	3.46	1.90	10.45	2.53
Reach1	5197.371	Check	9.27	210.02	210.71	210.76	210.99	0.017603	2.36	3.93	9.97	1.20
Reach1	5197.371	Hazel	7.15	210.02	210.68	210.68	210.87	0.012695	1.95	3.66	9.66	1.01
Reach1	5197.371	SCS II 100yr	7.13	210.02	210.68	210.68	210.87	0.012705	1.95	3.66	9.65	1.01
Reach1	5197.371	SCS II 50yr	6.41	210.02	210.65	210.65	210.83	0.012891	1.91	3.36	9.30	1.01
Reach1	5142.854	Check	9.27	208.62	209.27	209.41	209.71	0.031964	2.94	3.16	9.01	1.58
Reach1	5142.854	Hazel	7.15	208.62	209.16	209.33	209.66	0.044846	3.13	2.28	7.65	1.83
Reach1	5142.854	SCS II 100yr	7.13	208.62	209.16	209.32	209.66	0.044767	3.13	2.28	7.64	1.83
Reach1	5142.854	SCS II 50yr	6.41	208.62	209.14	209.29	209.61	0.044820	3.04	2.11	7.35	1.82
Reach1	5075.297	Check	9.27	207.38	207.99	208.01	208.21	0.015141	2.07	4.49	12.57	1.10
Reach1	5075.297	Hazel	7.15	207.38	207.90	207.94	208.12	0.018343	2.06	3.48	11.24	1.18
Reach1	5075.297	SCS II 100yr	7.13	207.38	207.90	207.94	208.12	0.018575	2.07	3.45	11.20	1.19
Reach1	5075.297	SCS II 50yr	6.41	207.38	207.84	207.91	208.11	0.027314	2.31	2.77	10.13	1.41
Reach1	5035.234	Check	9.27	205.88	206.56	206.76	207.18	0.046863	3.48	2.67	7.86	1.90
Reach1	5035.234	Hazel	7.15	205.88	206.51	206.67	207.02	0.043278	3.16	2.26	7.24	1.81
Reach1	5035.234	SCS II 100yr	7.13	205.88	206.51	206.67	207.01	0.042859	3.15	2.27	7.25	1.80
Reach1	5035.234	SCS II 50yr	6.41	205.88	206.51	206.64	206.90	0.032464	2.76	2.32	7.33	1.57
Reach1	5000	Check	9.27	204.63	205.26	205.39	205.68	0.035593	2.87	3.23	10.35	1.64
Reach1	5000	Hazel	7.15	204.63	205.20	205.32	205.58	0.036318	2.72	2.63	9.30	1.63
Reach1	5000	SCS II 100yr	7.13	204.63	205.20	205.32	205.58	0.036524	2.72	2.62	9.28	1.64
Reach1	5000	SCS II 50yr	6.41	204.63	205.16	205.29	205.58	0.044521	2.86	2.24	8.54	1.78
Reach1	4979.041	Check	9.27	204.36	204.98	204.99	205.16	0.014528	1.87	4.96	15.56	1.06
Reach1	4979.041	Hazel	7.15	204.36	204.93	204.94	205.08	0.014045	1.69	4.22	14.94	1.02
Reach1	4979.041	SCS II 100yr	7.13	204.36	204.93	204.94	205.08	0.014055	1.69	4.21	14.93	1.02
Reach1	4979.041	SCS II 50yr	6.41	204.36	204.88	204.92	205.06	0.019862	1.84	3.49	14.18	1.18
Reach1	4941.430	Check	9.27	203.05	203.39	203.58	204.04	0.078820	3.56	2.61	11.10	2.34
Reach1	4941.430	Hazel	7.15	203.05	203.34	203.51	203.97	0.095551	3.50	2.04	10.29	2.51
Reach1	4941.430	SCS II 100yr	7.13	203.05	203.34	203.51	203.96	0.095490	3.50	2.04	10.28	2.51
Reach1	4941.430	SCS II 50yr	6.41	203.05	203.35	203.49	203.79	0.063169	2.94	2.18	10.49	2.06
Reach1	4900	Check	9.27	202.05	202.63	202.69	202.87	0.023139	2.21	4.19	14.49	1.31
Reach1	4900	Hazel	7.15	202.05	202.63	202.63	202.77	0.013716	1.70	4.20	14.50	1.01
Reach1	4900	SCS II 100yr	7.13	202.05	202.62	202.62	202.77	0.013724	1.70	4.19	14.48	1.01
Reach1	4900	SCS II 50yr	6.41	202.05	202.49	202.60	202.83	0.045163	2.59	2.47	11.14	1.76
Reach1	4854.605	Check	9.27	201.05	201.57	201.65	201.85	0.021957	2.33	4.23	15.42	1.30
Reach1	4854.605	Hazel	7.15	201.05	201.48	201.58	201.80	0.036133	2.50	2.92	13.16	1.60
Reach1	4854.605	SCS II 100yr	7.13	201.05	201.48	201.58	201.80	0.036128	2.49	2.92	13.15	1.60
Reach1	4854.605	SCS II 50yr	6.41	201.05	201.54	201.55	201.70	0.014738	1.80	3.73	14.60	1.05
Reach1	4798.713	Check	9.27	199.50	200.04	200.15	200.40	0.030509	2.67	3.47	11.05	1.52
Reach1	4798.713	Hazel	7.15	199.50	200.02	200.08	200.26	0.020910	2.17	3.29	10.81	1.26
Reach1	4798.713	SCS II 100yr	7.13	199.50	200.02	200.08	200.26	0.020912	2.17	3.29	10.80	1.26
Reach1	4798.713	SCS II 50yr	6.41	199.50	199.92	200.05	200.33	0.047190	2.83	2.27	9.22	1.82
Reach1	4754.884	Check	9.27	197.87	198.49	198.65	198.98	0.034126	3.08	3.01	8.38	1.64
Reach1	4754.884	Hazel	7.15	197.87	198.39	198.56	198.92	0.046176	3.21	2.23	7.33	1.86
Reach1	4754.884	SCS II 100yr	7.13	197.87	198.39	198.56	198.92	0.046196	3.21	2.22	7.32	1.86
Reach1	4754.884	SCS II 50yr	6.41	197.87	198.43	198.53	198.77	0.027114	2.57	2.50	7.71	1.44
Reach1	4700	Check	9.27	196.84	197.35	197.40	197.59	0.017916	2.19	4.96	17.47	1.19
Reach1	4700	Hazel	7.15	196.84	197.32	197.34	197.49	0.014834	1.88	4.38	16.77	1.07

HEC-RAS Plan: Prop River: ShoreacresEast Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	4700	SCS II 100yr	7.13	196.84	197.32	197.33	197.49	0.014825	1.88	4.37	16.76	1.07
Reach1	4700	SCS II 50yr	6.41	196.84	197.27	197.31	197.47	0.019695	1.98	3.63	15.83	1.20
Reach1	4653.567	Check	9.27	195.86	196.31	196.38	196.56	0.027516	2.25	4.22	18.06	1.41
Reach1	4653.567	Hazel	7.15	195.86	196.25	196.32	196.49	0.033378	2.18	3.29	16.14	1.50
Reach1	4653.567	SCS II 100yr	7.13	195.86	196.25	196.32	196.49	0.033399	2.18	3.28	16.12	1.50
Reach1	4653.567	SCS II 50yr	6.41	195.86	196.26	196.30	196.44	0.024829	1.91	3.38	16.33	1.30
Reach1	4600	Check	9.27	193.65	194.12	194.25	194.55	0.053192	2.90	3.19	13.72	1.92
Reach1	4600	Hazel	7.15	193.65	194.09	194.20	194.42	0.044934	2.55	2.80	12.85	1.75
Reach1	4600	SCS II 100yr	7.13	193.65	194.09	194.20	194.42	0.044908	2.55	2.79	12.84	1.75
Reach1	4600	SCS II 50yr	6.41	193.65	194.05	194.18	194.44	0.060504	2.78	2.31	11.68	1.99
Reach1	4552.770	Check	9.27	192.33	192.95	192.98	193.17	0.017346	2.09	4.51	15.32	1.16
Reach1	4552.770	Hazel	7.15	192.33	192.89	192.92	193.08	0.018618	1.96	3.67	13.50	1.17
Reach1	4552.770	SCS II 100yr	7.13	192.33	192.89	192.92	193.08	0.018622	1.96	3.66	13.49	1.17
Reach1	4552.770	SCS II 50yr	6.41	192.33	192.88	192.89	193.05	0.016382	1.81	3.55	13.33	1.10
Reach1	4500	Check	9.27	190.51	191.04	191.20	191.60	0.058361	3.32	2.79	10.45	2.05
Reach1	4500	Hazel	7.15	190.51	190.99	191.14	191.47	0.056116	3.07	2.33	9.56	1.98
Reach1	4500	SCS II 100yr	7.13	190.51	190.99	191.13	191.47	0.056123	3.07	2.33	9.55	1.98
Reach1	4500	SCS II 50yr	6.41	190.51	190.96	191.11	191.47	0.065836	3.17	2.02	8.91	2.12
Reach1	4457.652	Check	9.27	189.36	189.71	189.78	189.99	0.025600	2.42	4.61	15.37	1.39
Reach1	4457.652	Hazel	7.15	189.36	189.67	189.72	189.89	0.025751	2.19	3.90	15.02	1.36
Reach1	4457.652	SCS II 100yr	7.13	189.36	189.67	189.72	189.89	0.025748	2.19	3.90	15.02	1.36
Reach1	4457.652	SCS II 50yr	6.41	189.36	189.66	189.70	189.85	0.023736	2.05	3.74	14.94	1.30
Reach1	4400	Check	9.27	188.28	189.00	189.00	189.19	0.012424	1.94	4.78	12.96	1.00
Reach1	4400	Hazel	7.15	188.28	188.93	188.93	189.10	0.013137	1.83	3.91	11.71	1.01
Reach1	4400	SCS II 100yr	7.13	188.28	188.93	188.93	189.10	0.013131	1.83	3.90	11.70	1.01
Reach1	4400	SCS II 50yr	6.41	188.28	188.90	188.90	189.07	0.013413	1.79	3.57	11.20	1.01
Reach1	4364.012	Check	9.27	187.07	187.67	187.86	188.30	0.058630	3.52	2.63	9.04	2.08
Reach1	4364.012	Hazel	7.15	187.07	187.61	187.79	188.18	0.060422	3.35	2.14	8.10	2.08
Reach1	4364.012	SCS II 100yr	7.13	187.07	187.61	187.79	188.18	0.060532	3.35	2.13	8.09	2.08
Reach1	4364.012	SCS II 50yr	6.41	187.07	187.59	187.76	188.13	0.059883	3.25	1.97	7.77	2.06
Reach1	4300	Check	9.27	186.35	186.80	186.75	186.91	0.009067	1.73	9.85	29.19	0.87
Reach1	4300	Hazel	7.15	186.35	186.73	186.71	186.84	0.009735	1.63	8.01	28.76	0.88
Reach1	4300	SCS II 100yr	7.13	186.35	186.73	186.71	186.84	0.009747	1.63	7.99	28.75	0.88
Reach1	4300	SCS II 50yr	6.41	186.35	186.71	186.69	186.81	0.009724	1.57	7.41	28.62	0.87
Reach1	4249.647	Check	9.27	185.73	186.24	186.24	186.43	0.011200	2.00	6.09	19.12	0.97
Reach1	4249.647	Hazel	7.15	185.73	186.18	186.18	186.34	0.011814	1.85	4.85	17.60	0.97
Reach1	4249.647	SCS II 100yr	7.13	185.73	186.18	186.18	186.34	0.011790	1.85	4.85	17.59	0.97
Reach1	4249.647	SCS II 50yr	6.41	185.73	186.15	186.15	186.31	0.011841	1.78	4.45	17.07	0.97
Reach1	4200	Check	9.27	183.98	184.31	184.52	185.07	0.121827	4.06	2.83	13.81	2.85
Reach1	4200	Hazel	7.15	183.98	184.27	184.44	184.93	0.123901	3.75	2.36	13.07	2.82
Reach1	4200	SCS II 100yr	7.13	183.98	184.27	184.44	184.93	0.123849	3.75	2.35	13.06	2.82
Reach1	4200	SCS II 50yr	6.41	183.98	184.26	184.43	184.87	0.126103	3.64	2.18	12.77	2.81
Reach1	4157.196	Check	9.27	183.06	183.70	183.70	183.90	0.011507	2.00	5.16	15.50	0.98
Reach1	4157.196	Hazel	7.15	183.06	183.63	183.63	183.80	0.012010	1.85	4.15	13.94	0.98
Reach1	4157.196	SCS II 100yr	7.13	183.06	183.63	183.63	183.80	0.012021	1.85	4.14	13.93	0.98
Reach1	4157.196	SCS II 50yr	6.41	183.06	183.60	183.60	183.76	0.012515	1.80	3.76	13.29	0.99
Reach1	4098.149	Check	9.27	182.20	182.79	182.84	183.03	0.019523	2.18	4.26	13.29	1.23
Reach1	4098.149	Hazel	7.15	182.20	182.73	182.77	182.94	0.018609	2.00	3.58	12.24	1.18
Reach1	4098.149	SCS II 100yr	7.13	182.20	182.73	182.77	182.93	0.018063	1.97	3.61	12.29	1.16
Reach1	4098.149	SCS II 50yr	6.41	182.20	182.72	182.74	182.90	0.017313	1.89	3.39	11.93	1.13
Reach1	4057.537	Check	9.27	181.54	181.98	182.04	182.26	0.018720	2.38	4.49	14.19	1.23
Reach1	4057.537	Hazel	7.15	181.54	181.92	181.97	182.16	0.020067	2.21	3.64	13.31	1.24
Reach1	4057.537	SCS II 100yr	7.13	181.54	181.92	181.97	182.16	0.020036	2.20	3.63	13.31	1.24
Reach1	4057.537	SCS II 50yr	6.41	181.54	181.89	181.94	182.12	0.021342	2.16	3.30	12.94	1.26
Reach1	4000	Check	9.27	180.54	181.17	181.17	181.37	0.012626	1.96	4.73	12.41	1.01
Reach1	4000	Hazel	7.15	180.54	181.05	181.10	181.28	0.019970	2.13	3.36	11.01	1.23
Reach1	4000	SCS II 100yr	7.13	180.54	181.05	181.10	181.28	0.019918	2.12	3.36	11.01	1.23
Reach1	4000	SCS II 50yr	6.41	180.54	180.99	181.07	181.28	0.029709	2.35	2.72	10.33	1.46
Reach1	3953.176	Check	9.27	179.84	180.52	180.54	180.73	0.014784	2.03	4.56	12.78	1.09
Reach1	3953.176	Hazel	7.15	179.84	180.47	180.47	180.63	0.013011	1.81	3.94	11.89	1.01
Reach1	3953.176	SCS II 100yr	7.13	179.84	180.47	180.47	180.63	0.013035	1.81	3.93	11.87	1.01
Reach1	3953.176	SCS II 50yr	6.41	179.84	180.44	180.44	180.60	0.013219	1.77	3.62	11.42	1.01

HEC-RAS Plan: Prop River: ShoreacresEast Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	3902.818	Check	9.27	179.19	179.70	179.59	179.78	0.004417	1.30	9.03	25.83	0.62
Reach1	3902.818	Hazel	7.15	179.19	179.64	179.53	179.71	0.004530	1.19	7.34	24.34	0.61
Reach1	3902.818	SCS II 100yr	7.13	179.19	179.64	179.53	179.70	0.004531	1.19	7.33	24.32	0.61
Reach1	3902.818	SCS II 50yr	6.41	179.19	179.61	179.51	179.68	0.004579	1.15	6.73	23.66	0.61
Reach1	3855.463	Check	9.27	178.64	179.27	179.27	179.46	0.011042	1.98	5.56	17.65	0.96
Reach1	3855.463	Hazel	7.15	178.64	179.20	179.20	179.37	0.011680	1.84	4.40	15.75	0.97
Reach1	3855.463	SCS II 100yr	7.13	178.64	179.20	179.20	179.37	0.011681	1.84	4.39	15.73	0.97
Reach1	3855.463	SCS II 50yr	6.41	178.64	179.17	179.17	179.33	0.012329	1.80	3.95	14.94	0.98
Reach1	3811.430	Check	9.27	177.66	177.90	178.03	178.37	0.085914	3.04	3.04	17.48	2.33
Reach1	3811.430	Hazel	7.15	177.66	177.87	177.98	178.25	0.082267	2.74	2.61	16.96	2.23
Reach1	3811.430	SCS II 100yr	7.13	177.66	177.87	177.98	178.25	0.082390	2.74	2.60	16.96	2.23
Reach1	3811.430	SCS II 50yr	6.41	177.66	177.86	177.96	178.21	0.079599	2.61	2.46	16.78	2.18
Reach1	3758.327	Check	9.27	176.44	177.43	176.98	177.46	0.000770	0.75	13.68	20.51	0.28
Reach1	3758.327	Hazel	7.15	176.44	177.34	176.91	177.36	0.000699	0.67	11.81	19.77	0.26
Reach1	3758.327	SCS II 100yr	7.13	176.44	177.34	176.91	177.36	0.000698	0.67	11.79	19.76	0.26
Reach1	3758.327	SCS II 50yr	6.41	176.44	177.30	176.89	177.32	0.000672	0.63	11.11	19.48	0.25
Reach1	3681.511	Check	9.27	176.44	177.11	177.11	177.29	0.012451	1.89	4.92	13.77	1.00
Reach1	3681.511	Hazel	7.15	176.44	177.04	177.04	177.21	0.013430	1.77	4.04	12.92	1.01
Reach1	3681.511	SCS II 100yr	7.13	176.44	177.04	177.04	177.20	0.013425	1.77	4.03	12.91	1.01
Reach1	3681.511	SCS II 50yr	6.41	176.44	177.02	177.02	177.17	0.013508	1.72	3.72	12.47	1.01
Reach1	3639.595	Check	9.27	175.05	175.57	175.76	176.22	0.062268	3.58	2.59	9.11	2.14
Reach1	3639.595	Hazel	7.15	175.05	175.51	175.69	176.10	0.064889	3.40	2.10	8.22	2.15
Reach1	3639.595	SCS II 100yr	7.13	175.05	175.51	175.69	176.10	0.064817	3.40	2.10	8.21	2.15
Reach1	3639.595	SCS II 50yr	6.41	175.05	175.49	175.66	176.05	0.065863	3.33	1.93	7.88	2.15
Reach1	3619.139	Check	9.27	174.80	175.41	175.41	175.60	0.012269	1.91	4.95	14.80	1.00
Reach1	3619.139	Hazel	7.15	174.80	175.29	175.35	175.53	0.023546	2.15	3.33	12.19	1.31
Reach1	3619.139	SCS II 100yr	7.13	174.80	175.29	175.35	175.53	0.023811	2.15	3.31	12.16	1.32
Reach1	3619.139	SCS II 50yr	6.41	174.80	175.26	175.33	175.50	0.026261	2.18	2.95	11.48	1.37
Reach1	3596.640	Check	9.27	174.04	174.31	174.47	174.93	0.112014	3.57	3.13	20.27	2.68
Reach1	3596.640	Hazel	7.15	174.04	174.31	174.42	174.68	0.066279	2.75	3.14	20.28	2.06
Reach1	3596.640	SCS II 100yr	7.13	174.04	174.31	174.42	174.68	0.065377	2.73	3.15	20.29	2.05
Reach1	3596.640	SCS II 50yr	6.41	174.04	174.31	174.40	174.63	0.061550	2.58	2.98	20.08	1.97
Reach1	3543.356	Check	9.27	172.98	173.56	173.56	173.73	0.011897	1.82	5.75	19.86	0.98
Reach1	3543.356	Hazel	7.15	172.98	173.50	173.50	173.65	0.012648	1.71	4.57	17.84	0.98
Reach1	3543.356	SCS II 100yr	7.13	172.98	173.50	173.50	173.65	0.012636	1.71	4.56	17.83	0.98
Reach1	3543.356	SCS II 50yr	6.41	172.98	173.48	173.48	173.62	0.012873	1.66	4.17	17.10	0.98
Reach1	3500	Check	9.27	171.60	171.99	172.18	172.64	0.071983	3.60	2.81	13.63	2.27
Reach1	3500	Hazel	7.15	171.60	171.95	172.09	172.50	0.075386	3.31	2.28	12.45	2.26
Reach1	3500	SCS II 100yr	7.13	171.60	171.95	172.09	172.50	0.075575	3.31	2.28	12.44	2.26
Reach1	3500	SCS II 50yr	6.41	171.60	171.93	172.08	172.45	0.076539	3.20	2.10	12.02	2.25
Reach1	3446.503	Check	9.27	170.49	171.01	171.01	171.17	0.012659	1.92	7.04	27.17	1.01
Reach1	3446.503	Hazel	7.15	170.49	170.93	170.96	171.10	0.017281	1.94	5.02	23.49	1.14
Reach1	3446.503	SCS II 100yr	7.13	170.49	170.92	170.96	171.10	0.017653	1.95	4.96	23.38	1.15
Reach1	3446.503	SCS II 50yr	6.41	170.49	170.86	170.93	171.10	0.029840	2.24	3.67	20.48	1.45
Reach1	3400	Check	9.27	169.31	169.64	169.75	170.03	0.061058	2.82	3.67	22.05	2.01
Reach1	3400	Hazel	7.15	169.31	169.63	169.71	169.89	0.042267	2.29	3.46	21.40	1.66
Reach1	3400	SCS II 100yr	7.13	169.31	169.63	169.71	169.88	0.041413	2.27	3.49	21.47	1.65
Reach1	3400	SCS II 50yr	6.41	169.31	169.64	169.69	169.82	0.025006	1.86	3.88	22.54	1.30
Reach1	3345.821	Check	9.27	168.47	169.06	169.06	169.25	0.011207	1.95	5.52	17.51	0.97
Reach1	3345.821	Hazel	7.15	168.47	168.99	168.99	169.15	0.011857	1.81	4.40	15.84	0.97
Reach1	3345.821	SCS II 100yr	7.13	168.47	168.99	168.99	169.15	0.011858	1.81	4.39	15.83	0.97
Reach1	3345.821	SCS II 50yr	6.41	168.47	168.97	168.96	169.12	0.012146	1.75	4.01	15.21	0.97
Reach1	3300	Check	9.27	167.77	168.10	168.19	168.38	0.037414	2.44	4.94	22.93	1.61
Reach1	3300	Hazel	7.15	167.77	168.07	168.13	168.29	0.033296	2.16	4.27	21.76	1.50
Reach1	3300	SCS II 100yr	7.13	167.77	168.07	168.14	168.29	0.033214	2.16	4.26	21.75	1.50
Reach1	3300	SCS II 50yr	6.41	167.77	168.06	168.12	168.26	0.031788	2.06	4.01	21.29	1.46
Reach1	3246.948	Check	9.27	167.06	167.43	167.36	167.49	0.013231	1.44	11.76	46.99	0.96
Reach1	3246.948	Hazel	7.15	167.06	167.39	167.33	167.44	0.013050	1.28	10.09	44.77	0.93
Reach1	3246.948	SCS II 100yr	7.13	167.06	167.39	167.33	167.44	0.013017	1.27	10.08	44.75	0.92
Reach1	3246.948	SCS II 50yr	6.41	167.06	167.37	167.31	167.42	0.014729	1.26	9.13	43.32	0.96
Reach1	3224.965	Check	9.27	166.53	166.75	166.75	166.87	0.092157	2.18	7.26	46.55	2.20

HEC-RAS Plan: Prop River: ShoreacresEast Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	2503	Check	10.06	160.78	161.52	161.52	161.84	0.010349	2.54	4.03	12.59	1.00
Reach1	2503	Hazel	7.75	160.78	161.41	161.41	161.69	0.011138	2.34	3.34	11.64	1.01
Reach1	2503	SCS II 100yr	7.74	160.78	161.41	161.41	161.69	0.011100	2.33	3.34	11.64	1.01
Reach1	2503	SCS II 50yr	6.96	160.78	161.38	161.38	161.63	0.011174	2.24	3.12	11.19	1.00
Reach1	2502.95*	Check	10.06	160.69	161.21	161.34	161.66	0.033304	2.99	3.37	10.09	1.62
Reach1	2502.95*	Hazel	7.75	160.69	161.16	161.26	161.52	0.031137	2.66	2.92	9.53	1.53
Reach1	2502.95*	SCS II 100yr	7.74	160.69	161.16	161.26	161.52	0.031152	2.65	2.92	9.53	1.53
Reach1	2502.95*	SCS II 50yr	6.96	160.69	161.14	161.23	161.47	0.028998	2.51	2.77	9.33	1.47
Reach1	2502.9*	Check	10.06	160.61	161.19	161.25	161.50	0.017615	2.46	4.20	11.74	1.21
Reach1	2502.9*	Hazel	7.75	160.61	161.10	161.18	161.40	0.024076	2.44	3.18	10.11	1.36
Reach1	2502.9*	SCS II 100yr	7.74	160.61	161.10	161.17	161.40	0.024134	2.44	3.18	10.10	1.36
Reach1	2502.9*	SCS II 50yr	6.96	160.61	161.06	161.15	161.37	0.027572	2.45	2.84	9.59	1.44
Reach1	2502.8*	Check	10.06	160.53	161.11	161.16	161.41	0.016649	2.42	4.33	12.14	1.18
Reach1	2502.8*	Hazel	7.75	160.53	161.02	161.09	161.31	0.022885	2.40	3.25	10.62	1.33
Reach1	2502.8*	SCS II 100yr	7.74	160.53	161.02	161.09	161.31	0.022981	2.40	3.24	10.60	1.33
Reach1	2502.8*	SCS II 50yr	6.96	160.53	160.98	161.06	161.28	0.027158	2.43	2.86	9.90	1.43
Reach1	2502.7*	Check	10.06	160.44	161.03	161.08	161.32	0.015829	2.38	4.46	12.58	1.16
Reach1	2502.7*	Hazel	7.75	160.44	160.94	161.00	161.22	0.021945	2.37	3.31	11.19	1.31
Reach1	2502.7*	SCS II 100yr	7.74	160.44	160.93	161.00	161.22	0.022019	2.37	3.31	11.17	1.31
Reach1	2502.7*	SCS II 50yr	6.96	160.44	160.90	160.97	161.19	0.026616	2.41	2.89	10.22	1.41
Reach1	2502.65*	Check	10.06	160.36	160.94	160.99	161.23	0.015697	2.37	4.54	13.11	1.15
Reach1	2502.65*	Hazel	7.75	160.36	160.85	160.92	161.13	0.021567	2.35	3.37	11.63	1.30
Reach1	2502.65*	SCS II 100yr	7.74	160.36	160.85	160.91	161.13	0.021625	2.35	3.37	11.62	1.30
Reach1	2502.65*	SCS II 50yr	6.96	160.36	160.81	160.89	161.10	0.025979	2.39	2.94	10.72	1.40
Reach1	2502.6*	Check	10.06	160.27	160.93	160.91	161.13	0.009416	2.02	5.64	15.51	0.92
Reach1	2502.6*	Hazel	7.75	160.27	160.76	160.83	161.04	0.021057	2.34	3.44	12.05	1.28
Reach1	2502.6*	SCS II 100yr	7.74	160.27	160.76	160.83	161.04	0.021152	2.34	3.43	12.04	1.29
Reach1	2502.6*	SCS II 50yr	6.96	160.27	160.73	160.80	161.01	0.025445	2.37	2.99	11.49	1.38
Reach1	2502.55*	Check	10.06	160.19	160.83	160.82	161.04	0.009650	2.03	5.75	16.51	0.93
Reach1	2502.55*	Hazel	7.75	160.19	160.68	160.74	160.95	0.020765	2.32	3.52	12.54	1.27
Reach1	2502.55*	SCS II 100yr	7.74	160.19	160.68	160.74	160.95	0.020859	2.32	3.51	12.53	1.28
Reach1	2502.55*	SCS II 50yr	6.96	160.19	160.64	160.71	160.93	0.025932	2.38	3.01	11.90	1.39
Reach1	2502.5*	Check	10.06	160.11	160.74	160.73	160.95	0.009637	2.03	5.95	17.56	0.92
Reach1	2502.5*	Hazel	7.75	160.11	160.60	160.66	160.86	0.019537	2.28	3.67	13.44	1.24
Reach1	2502.5*	SCS II 100yr	7.74	160.11	160.60	160.65	160.86	0.019599	2.28	3.66	13.43	1.24
Reach1	2502.5*	SCS II 50yr	6.96	160.11	160.56	160.63	160.83	0.024207	2.33	3.13	12.42	1.35
Reach1	2502.45*	Check	10.06	160.02	160.65	160.65	160.85	0.009729	2.02	6.16	18.43	0.93
Reach1	2502.45*	Hazel	7.75	160.02	160.51	160.57	160.77	0.018786	2.24	3.83	14.93	1.22
Reach1	2502.45*	SCS II 100yr	7.74	160.02	160.51	160.57	160.77	0.018829	2.24	3.82	14.92	1.22
Reach1	2502.45*	SCS II 50yr	6.96	160.02	160.47	160.54	160.74	0.023175	2.29	3.26	13.34	1.32
Reach1	2502.4*	Check	10.06	159.94	160.56	160.54	160.76	0.009987	2.03	6.36	19.77	0.94
Reach1	2502.4*	Hazel	7.75	159.94	160.43	160.48	160.67	0.017781	2.20	4.07	16.07	1.19
Reach1	2502.4*	SCS II 100yr	7.74	159.94	160.43	160.48	160.67	0.017854	2.20	4.06	16.06	1.19
Reach1	2502.4*	SCS II 50yr	6.96	159.94	160.39	160.45	160.64	0.021478	2.23	3.47	14.89	1.28
Reach1	2502.36*	Check	10.06	159.85	160.47	160.45	160.66	0.010045	2.02	6.69	21.61	0.94
Reach1	2502.36*	Hazel	7.75	159.85	160.33	160.38	160.58	0.018835	2.23	4.16	17.28	1.22
Reach1	2502.36*	SCS II 100yr	7.74	159.85	160.33	160.38	160.58	0.018819	2.23	4.16	17.28	1.22
Reach1	2502.36*	SCS II 50yr	6.96	159.85	160.31	160.36	160.54	0.020105	2.18	3.72	16.32	1.24
Reach1	2502.32*	Check	10.06	159.77	160.38	160.37	160.56	0.009218	1.95	7.38	25.50	0.90
Reach1	2502.32*	Hazel	7.75	159.77	160.31	160.30	160.47	0.009930	1.81	5.70	21.14	0.91
Reach1	2502.32*	SCS II 100yr	7.74	159.77	160.31	160.30	160.47	0.009929	1.81	5.70	21.13	0.91
Reach1	2502.32*	SCS II 50yr	6.96	159.77	160.29	160.27	160.43	0.009846	1.74	5.23	20.34	0.90
Reach1	2502.27*	Check	10.06	159.69	160.27	160.25	160.46	0.010919	2.03	7.35	27.13	0.97
Reach1	2502.27*	Hazel	7.75	159.69	160.22	160.21	160.37	0.010382	1.82	5.98	23.93	0.93
Reach1	2502.27*	SCS II 100yr	7.74	159.69	160.22	160.21	160.37	0.010381	1.82	5.97	23.92	0.93
Reach1	2502.27*	SCS II 50yr	6.96	159.69	160.19	160.18	160.34	0.010292	1.75	5.47	22.35	0.91
Reach1	2502.22*	Check	10.06	159.60	160.18	160.18	160.35	0.010228	1.97	8.15	28.68	0.94
Reach1	2502.22*	Hazel	7.75	159.60	160.12	160.10	160.27	0.010533	1.81	6.42	26.53	0.93
Reach1	2502.22*	SCS II 100yr	7.74	159.60	160.12	160.10	160.27	0.010533	1.81	6.41	26.52	0.93
Reach1	2502.22*	SCS II 50yr	6.96	159.60	160.10	160.09	160.24	0.010281	1.72	5.92	25.33	0.91
Reach1	2502.18*	Check	10.06	159.52	160.05	160.08	160.25	0.013491	2.11	7.80	28.78	1.06

HEC-RAS Plan: Prop River: ShoreacresEast Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	2502.18*	Hazel	7.75	159.52	160.02	160.02	160.16	0.011000	1.80	6.87	27.72	0.94
Reach1	2502.18*	SCS II 100yr	7.74	159.52	160.02	160.02	160.16	0.011000	1.80	6.86	27.72	0.94
Reach1	2502.18*	SCS II 50yr	6.96	159.52	160.00	159.97	160.13	0.010945	1.73	6.32	27.39	0.93
Reach1	2502.13*	Check	10.06	159.43	159.97	159.97	160.13	0.011489	1.97	8.89	31.31	0.98
Reach1	2502.13*	Hazel	7.75	159.43	159.92	159.91	160.05	0.011389	1.78	7.31	28.58	0.95
Reach1	2502.13*	SCS II 100yr	7.74	159.43	159.92	159.91	160.05	0.011388	1.78	7.30	28.57	0.95
Reach1	2502.13*	SCS II 50yr	6.96	159.43	159.90	159.89	160.02	0.011365	1.72	6.75	28.11	0.94
Reach1	2502.09*	Check	10.06	159.35	159.87	159.85	160.02	0.011880	1.94	9.36	32.50	0.99
Reach1	2502.09*	Hazel	7.75	159.35	159.82	159.80	159.94	0.011631	1.75	7.78	29.54	0.96
Reach1	2502.09*	SCS II 100yr	7.74	159.35	159.82	159.80	159.94	0.011629	1.75	7.77	29.53	0.96
Reach1	2502.09*	SCS II 50yr	6.96	159.35	159.80	159.78	159.91	0.011537	1.68	7.23	28.97	0.94
Reach1	2502.04*	Check	10.06	159.27	159.77	159.74	159.90	0.011603	1.88	10.03	33.97	0.97
Reach1	2502.04*	Hazel	7.75	159.27	159.72	159.69	159.82	0.011629	1.70	8.31	31.00	0.95
Reach1	2502.04*	SCS II 100yr	7.74	159.27	159.71	159.69	159.82	0.011629	1.70	8.30	30.98	0.95
Reach1	2502.04*	SCS II 50yr	6.96	159.27	159.70	159.68	159.80	0.011670	1.64	7.70	29.92	0.94
Reach1	2502	Check	10.06	159.18	159.70		159.79	0.008796	1.67	11.75	37.36	0.85
Reach1	2502	Hazel	7.75	159.18	159.64		159.72	0.008820	1.51	9.75	34.44	0.83
Reach1	2502	SCS II 100yr	7.74	159.18	159.64		159.72	0.008819	1.51	9.74	34.43	0.83
Reach1	2502	SCS II 50yr	6.96	159.18	159.62		159.69	0.008825	1.45	9.05	32.81	0.82
Reach1	2501.93*	Check	10.06	159.08	159.61		159.71	0.008883	1.68	11.74	37.94	0.86
Reach1	2501.93*	Hazel	7.75	159.08	159.55		159.63	0.008936	1.52	9.71	34.75	0.84
Reach1	2501.93*	SCS II 100yr	7.74	159.08	159.55		159.63	0.008935	1.52	9.70	34.74	0.84
Reach1	2501.93*	SCS II 50yr	6.96	159.08	159.53		159.61	0.008994	1.46	8.98	33.91	0.83
Reach1	2501.86*	Check	10.06	158.98	159.52		159.62	0.008840	1.68	11.80	39.22	0.85
Reach1	2501.86*	Hazel	7.75	158.98	159.47		159.55	0.008866	1.52	9.74	35.48	0.83
Reach1	2501.86*	SCS II 100yr	7.74	158.98	159.47		159.55	0.008867	1.52	9.73	35.47	0.83
Reach1	2501.86*	SCS II 50yr	6.96	158.98	159.44		159.52	0.008855	1.46	9.02	34.13	0.83
Reach1	2501.79*	Check	10.06	158.88	159.43		159.53	0.008922	1.69	11.85	39.99	0.86
Reach1	2501.79*	Hazel	7.75	158.88	159.38		159.46	0.008930	1.53	9.76	36.12	0.84
Reach1	2501.79*	SCS II 100yr	7.74	158.88	159.38		159.46	0.008930	1.53	9.75	36.11	0.84
Reach1	2501.79*	SCS II 50yr	6.96	158.88	159.36		159.43	0.008919	1.46	9.03	34.91	0.83
Reach1	2501.72*	Check	10.06	158.78	159.35		159.45	0.008868	1.69	11.91	40.23	0.86
Reach1	2501.72*	Hazel	7.75	158.78	159.29		159.37	0.008921	1.53	9.78	36.76	0.84
Reach1	2501.72*	SCS II 100yr	7.74	158.78	159.29		159.37	0.008920	1.53	9.77	36.75	0.84
Reach1	2501.72*	SCS II 50yr	6.96	158.78	159.27		159.35	0.008968	1.47	9.02	35.73	0.83
Reach1	2501.65*	Check	10.06	158.68	159.26		159.36	0.008874	1.69	11.97	40.93	0.86
Reach1	2501.65*	Hazel	7.75	158.68	159.20		159.29	0.008914	1.53	9.81	37.39	0.84
Reach1	2501.65*	SCS II 100yr	7.74	158.68	159.20		159.29	0.008915	1.53	9.80	37.38	0.84
Reach1	2501.65*	SCS II 50yr	6.96	158.68	159.18		159.26	0.008860	1.47	9.07	36.13	0.83
Reach1	2501.58*	Check	10.06	158.58	159.17		159.27	0.008873	1.69	12.07	41.63	0.86
Reach1	2501.58*	Hazel	7.75	158.58	159.12		159.20	0.008855	1.53	9.89	38.02	0.83
Reach1	2501.58*	SCS II 100yr	7.74	158.58	159.12		159.20	0.008852	1.53	9.89	38.01	0.83
Reach1	2501.58*	SCS II 50yr	6.96	158.58	159.10		159.18	0.008912	1.47	9.12	36.99	0.83
Reach1	2501.51*	Check	10.06	158.48	159.09		159.19	0.008945	1.70	12.15	42.47	0.86
Reach1	2501.51*	Hazel	7.75	158.48	159.03		159.12	0.008996	1.54	9.93	39.16	0.84
Reach1	2501.51*	SCS II 100yr	7.74	158.48	159.03		159.12	0.008997	1.54	9.92	39.14	0.84
Reach1	2501.51*	SCS II 50yr	6.96	158.48	159.01		159.09	0.008932	1.48	9.17	37.75	0.83
Reach1	2501.44*	Check	10.06	158.38	159.00		159.10	0.008896	1.69	12.32	43.35	0.86
Reach1	2501.44*	Hazel	7.75	158.38	158.94		159.03	0.008968	1.54	10.04	39.89	0.84
Reach1	2501.44*	SCS II 100yr	7.74	158.38	158.94		159.03	0.008875	1.53	10.07	39.93	0.84
Reach1	2501.44*	SCS II 50yr	6.96	158.38	158.92		159.00	0.008946	1.48	9.26	38.87	0.83
Reach1	2501.37*	Check	10.06	158.28	158.91		159.01	0.009194	1.71	12.33	44.22	0.87
Reach1	2501.37*	Hazel	7.75	158.28	158.85		158.94	0.009127	1.55	10.09	41.02	0.85
Reach1	2501.37*	SCS II 100yr	7.74	158.28	158.85		158.94	0.009129	1.55	10.08	41.00	0.85
Reach1	2501.37*	SCS II 50yr	6.96	158.28	158.84		158.92	0.009111	1.49	9.30	39.91	0.84
Reach1	2501.3*	Check	10.06	158.18	158.82		158.92	0.008944	1.69	12.68	45.73	0.86
Reach1	2501.3*	Hazel	7.75	158.18	158.77		158.85	0.008928	1.54	10.35	42.26	0.84
Reach1	2501.3*	SCS II 100yr	7.74	158.18	158.77		158.85	0.008922	1.54	10.34	42.25	0.84
Reach1	2501.3*	SCS II 50yr	6.96	158.18	158.75		158.83	0.008879	1.48	9.55	41.35	0.83
Reach1	2501.2*	Check	10.06	158.08	158.73	158.69	158.83	0.009205	1.71	12.83	47.86	0.87
Reach1	2501.2*	Hazel	7.75	158.08	158.68		158.76	0.009228	1.55	10.43	44.10	0.85
Reach1	2501.2*	SCS II 100yr	7.74	158.08	158.68		158.76	0.009304	1.56	10.39	44.06	0.85

HEC-RAS Plan: Prop River: ShoreacresEast Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	2501.2*	SCS II 50yr	6.96	158.08	158.66		158.74	0.009214	1.49	9.60	42.79	0.84
Reach1	2501.1*	Check	10.06	157.98	158.63	158.59	158.74	0.009886	1.74	12.88	50.47	0.90
Reach1	2501.1*	Hazel	7.75	157.98	158.59		158.67	0.009208	1.55	10.75	46.82	0.85
Reach1	2501.1*	SCS II 100yr	7.74	157.98	158.59		158.67	0.009171	1.54	10.74	46.54	0.85
Reach1	2501.1*	SCS II 50yr	6.96	157.98	158.57		158.65	0.009181	1.49	9.88	45.41	0.84
Reach1	2501.05*	Check	10.06	157.88	158.53	158.52	158.64	0.011084	1.79	12.87	53.73	0.94
Reach1	2501.05*	Hazel	7.75	157.88	158.48	158.45	158.58	0.010901	1.63	10.53	50.60	0.92
Reach1	2501.05*	SCS II 100yr	7.74	157.88	158.48	158.45	158.58	0.010900	1.63	10.52	50.59	0.92
Reach1	2501.05*	SCS II 50yr	6.96	157.88	158.47	158.44	158.56	0.010610	1.55	9.74	48.83	0.90
Reach1	2501	Check	10.06	157.78	158.45		158.53	0.009050	1.64	14.23	53.55	0.85
Reach1	2501	Hazel	7.75	157.78	158.41		158.48	0.008741	1.48	11.95	52.62	0.82
Reach1	2501	SCS II 100yr	7.74	157.78	158.41		158.48	0.008736	1.48	11.94	52.61	0.82
Reach1	2501	SCS II 50yr	6.96	157.78	158.39		158.46	0.008907	1.44	10.97	52.19	0.82
Reach1	2500.93*	Check	10.06	157.69	158.35		158.45	0.009367	1.67	13.62	55.95	0.87
Reach1	2500.93*	Hazel	7.75	157.69	158.30	158.28	158.39	0.009748	1.55	10.98	54.12	0.87
Reach1	2500.93*	SCS II 100yr	7.74	157.69	158.30	158.28	158.39	0.009818	1.56	10.93	54.09	0.87
Reach1	2500.93*	SCS II 50yr	6.96	157.69	158.29	158.26	158.37	0.009846	1.50	10.00	52.24	0.86
Reach1	2500.86*	Check	10.06	157.59	158.24	158.23	158.35	0.010420	1.74	12.50	55.27	0.92
Reach1	2500.86*	Hazel	7.75	157.59	158.20	158.18	158.29	0.010663	1.60	9.97	50.77	0.91
Reach1	2500.86*	SCS II 100yr	7.74	157.59	158.20	158.18	158.29	0.010457	1.59	10.04	50.83	0.90
Reach1	2500.86*	SCS II 50yr	6.96	157.59	158.18	158.16	158.27	0.010230	1.52	9.29	49.71	0.88
Reach1	2500.79*	Check	10.06	157.50	158.14	158.13	158.25	0.010560	1.74	11.90	53.69	0.92
Reach1	2500.79*	Hazel	7.75	157.50	158.11	158.10	158.20	0.008770	1.50	10.36	51.46	0.83
Reach1	2500.79*	SCS II 100yr	7.74	157.50	158.10	158.10	158.20	0.009891	1.56	9.85	50.69	0.87
Reach1	2500.79*	SCS II 50yr	6.96	157.50	158.08	158.07	158.17	0.010493	1.53	8.79	48.90	0.89
Reach1	2500.72*	Check	10.06	157.41	158.04	158.04	158.15	0.010604	1.73	11.41	52.96	0.92
Reach1	2500.72*	Hazel	7.75	157.41	158.00	157.99	158.10	0.010254	1.57	9.30	50.15	0.89
Reach1	2500.72*	SCS II 100yr	7.74	157.41	158.00	157.99	158.10	0.010122	1.56	9.34	50.20	0.88
Reach1	2500.72*	SCS II 50yr	6.96	157.41	157.98	157.97	158.07	0.010092	1.51	8.54	48.71	0.87
Reach1	2500.65*	Check	10.06	157.31	157.93	157.93	158.05	0.010623	1.73	11.05	53.40	0.92
Reach1	2500.65*	Hazel	7.75	157.31	157.89	157.89	157.99	0.010695	1.59	8.78	49.83	0.90
Reach1	2500.65*	SCS II 100yr	7.74	157.31	157.89	157.89	157.99	0.010913	1.60	8.69	49.68	0.91
Reach1	2500.65*	SCS II 50yr	6.96	157.31	157.87	157.87	157.97	0.011275	1.56	7.77	46.81	0.92
Reach1	2500.58*	Check	10.06	157.22	157.83	157.83	157.95	0.010767	1.72	10.60	53.72	0.93
Reach1	2500.58*	Hazel	7.75	157.22	157.77	157.76	157.89	0.011905	1.63	7.95	43.74	0.95
Reach1	2500.58*	SCS II 100yr	7.74	157.22	157.77	157.76	157.89	0.011903	1.63	7.95	43.73	0.95
Reach1	2500.58*	SCS II 50yr	6.96	157.22	157.76	157.74	157.86	0.011340	1.54	7.40	42.32	0.92
Reach1	2500.52*	Check	10.06	157.13	157.71	157.71	157.84	0.011972	1.77	9.73	50.39	0.97
Reach1	2500.52*	Hazel	7.75	157.13	157.68	157.67	157.78	0.009725	1.50	8.45	44.88	0.86
Reach1	2500.52*	SCS II 100yr	7.74	157.13	157.68	157.67	157.78	0.009730	1.50	8.44	44.87	0.86
Reach1	2500.52*	SCS II 50yr	6.96	157.13	157.66	157.65	157.76	0.010991	1.51	7.31	42.47	0.90
Reach1	2500.46*	Check	10.06	157.03	157.62	157.61	157.73	0.010114	1.65	10.19	48.54	0.89
Reach1	2500.46*	Hazel	7.75	157.03	157.57	157.56	157.67	0.011300	1.56	7.77	43.61	0.92
Reach1	2500.46*	SCS II 100yr	7.74	157.03	157.57	157.56	157.67	0.011298	1.56	7.76	43.59	0.92
Reach1	2500.46*	SCS II 50yr	6.96	157.03	157.55	157.54	157.65	0.011444	1.51	7.04	42.09	0.92
Reach1	2500.39*	Check	10.06	156.94	157.49	157.49	157.62	0.011834	1.71	9.35	47.21	0.96
Reach1	2500.39*	Hazel	7.75	156.94	157.45	157.45	157.56	0.011982	1.57	7.43	43.13	0.94
Reach1	2500.39*	SCS II 100yr	7.74	156.94	157.45	157.45	157.56	0.011981	1.57	7.42	43.12	0.94
Reach1	2500.39*	SCS II 50yr	6.96	156.94	157.44	157.43	157.54	0.011829	1.50	6.80	41.24	0.93
Reach1	2500.32*	Check	10.06	156.84	157.39	157.38	157.50	0.010608	1.63	9.62	47.38	0.91
Reach1	2500.32*	Hazel	7.75	156.84	157.34	157.33	157.44	0.011964	1.54	7.34	39.12	0.94
Reach1	2500.32*	SCS II 100yr	7.74	156.84	157.34	157.33	157.44	0.011962	1.54	7.33	39.10	0.94
Reach1	2500.32*	SCS II 50yr	6.96	156.84	157.32	157.32	157.42	0.012225	1.49	6.69	37.34	0.94
Reach1	2500.26*	Check	10.06	156.75	157.27	157.25	157.39	0.012029	1.66	9.09	43.04	0.96
Reach1	2500.26*	Hazel	7.75	156.75	157.23	157.22	157.33	0.011986	1.51	7.42	39.33	0.93
Reach1	2500.26*	SCS II 100yr	7.74	156.75	157.23	157.22	157.33	0.011986	1.51	7.42	39.32	0.93
Reach1	2500.26*	SCS II 50yr	6.96	156.75	157.22	157.20	157.31	0.011656	1.44	6.90	36.96	0.91
Reach1	2500.2*	Check	10.06	156.66	157.16	157.15	157.27	0.012568	1.65	8.98	42.32	0.97
Reach1	2500.2*	Hazel	7.75	156.66	157.12	157.10	157.21	0.012428	1.49	7.41	37.98	0.94
Reach1	2500.2*	SCS II 100yr	7.74	156.66	157.12	157.10	157.21	0.012428	1.49	7.40	37.97	0.94
Reach1	2500.2*	SCS II 50yr	6.96	156.66	157.10	157.09	157.19	0.012558	1.44	6.83	36.76	0.94

HEC-RAS Plan: Prop River: ShoreacresEast Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	2500.1*	Check	10.06	156.56	157.05	157.03	157.15	0.011994	1.59	9.22	42.07	0.95
Reach1	2500.1*	Hazel	7.75	156.56	157.01	156.99	157.09	0.011648	1.43	7.70	38.78	0.91
Reach1	2500.1*	SCS II 100yr	7.74	156.56	157.01	156.99	157.09	0.011643	1.43	7.70	38.77	0.91
Reach1	2500.1*	SCS II 50yr	6.96	156.56	157.00	156.97	157.07	0.011217	1.36	7.23	37.46	0.89
Reach1	2500.05*	Check	10.06	156.47	156.93	156.91	157.03	0.012888	1.59	9.13	41.99	0.97
Reach1	2500.05*	Hazel	7.75	156.47	156.89	156.88	156.97	0.013103	1.46	7.51	38.47	0.96
Reach1	2500.05*	SCS II 100yr	7.74	156.47	156.89	156.88	156.97	0.013104	1.46	7.50	38.45	0.96
Reach1	2500.05*	SCS II 50yr	6.96	156.47	156.87	156.86	156.95	0.013207	1.44	6.85	36.97	0.96
Reach1	2500	Check	10.06	156.38	156.87		156.93	0.006305	1.24	11.94	47.76	0.70
Reach1	2500	Hazel	7.75	156.38	156.83		156.88	0.006249	1.12	9.95	44.12	0.68
Reach1	2500	SCS II 100yr	7.74	156.38	156.83		156.88	0.006249	1.12	9.94	44.10	0.68
Reach1	2500	SCS II 50yr	6.96	156.38	156.81		156.86	0.006290	1.08	9.21	42.70	0.67
Reach1	2490.91*	Check	10.06	156.32	156.82		156.87	0.006382	1.26	12.02	48.99	0.70
Reach1	2490.91*	Hazel	7.75	156.32	156.77		156.82	0.006281	1.14	10.02	45.17	0.68
Reach1	2490.91*	SCS II 100yr	7.74	156.32	156.77		156.82	0.006280	1.14	10.01	45.16	0.68
Reach1	2490.91*	SCS II 50yr	6.96	156.32	156.76		156.80	0.006285	1.09	9.27	43.27	0.68
Reach1	2481.82*	Check	10.06	156.27	156.76		156.82	0.006451	1.27	12.16	51.73	0.71
Reach1	2481.82*	Hazel	7.75	156.27	156.71		156.76	0.006371	1.15	10.09	46.77	0.69
Reach1	2481.82*	SCS II 100yr	7.74	156.27	156.71		156.76	0.006371	1.15	10.08	46.76	0.69
Reach1	2481.82*	SCS II 50yr	6.96	156.27	156.70		156.74	0.006277	1.10	9.36	44.42	0.68
Reach1	2472.73*	Check	10.06	156.22	156.70		156.76	0.006532	1.29	12.35	53.60	0.71
Reach1	2472.73*	Hazel	7.75	156.22	156.66		156.71	0.006438	1.17	10.20	48.65	0.69
Reach1	2472.73*	SCS II 100yr	7.74	156.22	156.66		156.71	0.006439	1.17	10.19	48.64	0.69
Reach1	2472.73*	SCS II 50yr	6.96	156.22	156.64		156.69	0.006379	1.12	9.45	46.29	0.68
Reach1	2463.64*	Check	10.06	156.17	156.64		156.70	0.006638	1.30	12.58	55.49	0.72
Reach1	2463.64*	Hazel	7.75	156.17	156.60		156.65	0.006558	1.18	10.37	51.47	0.70
Reach1	2463.64*	SCS II 100yr	7.74	156.17	156.60		156.65	0.006559	1.18	10.36	51.46	0.70
Reach1	2463.64*	SCS II 50yr	6.96	156.17	156.58		156.63	0.006535	1.14	9.58	49.88	0.69
Reach1	2454.55*	Check	10.06	156.12	156.58		156.64	0.006713	1.31	12.84	57.34	0.73
Reach1	2454.55*	Hazel	7.75	156.12	156.54		156.59	0.006595	1.19	10.59	53.46	0.70
Reach1	2454.55*	SCS II 100yr	7.74	156.12	156.54		156.59	0.006596	1.19	10.58	53.44	0.70
Reach1	2454.55*	SCS II 50yr	6.96	156.12	156.52		156.57	0.006596	1.15	9.76	52.04	0.70
Reach1	2445.46*	Check	10.06	156.06	156.52		156.57	0.006801	1.32	13.14	59.33	0.73
Reach1	2445.46*	Hazel	7.75	156.06	156.48		156.53	0.006758	1.21	10.81	55.62	0.71
Reach1	2445.46*	SCS II 100yr	7.74	156.06	156.48		156.53	0.006757	1.21	10.80	55.60	0.71
Reach1	2445.46*	SCS II 50yr	6.96	156.06	156.46		156.51	0.006707	1.16	9.97	53.99	0.70
Reach1	2436.37*	Check	10.06	156.01	156.46		156.51	0.006934	1.33	13.41	60.76	0.74
Reach1	2436.37*	Hazel	7.75	156.01	156.42		156.46	0.006846	1.22	11.06	57.46	0.72
Reach1	2436.37*	SCS II 100yr	7.74	156.01	156.42		156.46	0.006846	1.21	11.04	57.44	0.72
Reach1	2436.37*	SCS II 50yr	6.96	156.01	156.40		156.45	0.006816	1.17	10.20	55.97	0.71
Reach1	2427.28*	Check	10.06	155.96	156.40		156.45	0.006801	1.32	13.86	61.58	0.73
Reach1	2427.28*	Hazel	7.75	155.96	156.35		156.40	0.006876	1.22	11.41	59.06	0.72
Reach1	2427.28*	SCS II 100yr	7.74	155.96	156.35		156.40	0.006876	1.22	11.40	59.04	0.72
Reach1	2427.28*	SCS II 50yr	6.96	155.96	156.34		156.38	0.006862	1.17	10.53	57.76	0.71
Reach1	2418.19*	Check	10.06	155.91	156.34		156.39	0.006219	1.28	14.66	62.65	0.70
Reach1	2418.19*	Hazel	7.75	155.91	156.30		156.34	0.006652	1.20	11.88	60.30	0.71
Reach1	2418.19*	SCS II 100yr	7.74	155.91	156.29		156.34	0.006653	1.20	11.87	60.28	0.71
Reach1	2418.19*	SCS II 50yr	6.96	155.91	156.28		156.32	0.006775	1.17	10.91	59.25	0.71
Reach1	2409.09*	Check	10.06	155.86	156.30		156.33	0.005014	1.19	16.15	64.25	0.63
Reach1	2409.09*	Hazel	7.75	155.86	156.24		156.28	0.005619	1.13	12.93	61.71	0.65
Reach1	2409.09*	SCS II 100yr	7.74	155.86	156.24		156.28	0.005621	1.13	12.92	61.69	0.65
Reach1	2409.09*	SCS II 50yr	6.96	155.86	156.23		156.26	0.005761	1.10	11.88	60.78	0.66
Reach1	2400	Check	10.06	155.80	156.27		156.29	0.003498	1.05	18.69	66.53	0.54
Reach1	2400	Hazel	7.75	155.80	156.21		156.24	0.003896	1.00	15.06	63.89	0.55
Reach1	2400	SCS II 100yr	7.74	155.80	156.21		156.24	0.003896	1.00	15.04	63.88	0.55
Reach1	2400	SCS II 50yr	6.96	155.80	156.19		156.22	0.003940	0.97	13.92	62.96	0.55
Reach1	2391.66*	Check	10.06	155.70	156.23		156.26	0.003578	1.13	18.03	64.77	0.55
Reach1	2391.66*	Hazel	7.75	155.70	156.17		156.20	0.004150	1.10	14.17	61.34	0.58
Reach1	2391.66*	SCS II 100yr	7.74	155.70	156.17		156.20	0.004149	1.10	14.16	61.32	0.58
Reach1	2391.66*	SCS II 50yr	6.96	155.70	156.15		156.18	0.004161	1.06	13.09	60.24	0.58
Reach1	2383.33*	Check	10.06	155.60	156.20		156.23	0.003543	1.19	17.87	64.97	0.56
Reach1	2383.33*	Hazel	7.75	155.60	156.13		156.17	0.004326	1.19	13.56	59.41	0.60

HEC-RAS Plan: Prop River: ShoreacresEast Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	2383.33*	SCS II 100yr	7.74	155.60	156.13		156.17	0.004326	1.19	13.54	59.40	0.60
Reach1	2383.33*	SCS II 50yr	6.96	155.60	156.11		156.15	0.004328	1.15	12.50	58.44	0.60
Reach1	2375*	Check	10.06	155.49	156.17		156.20	0.003133	1.20	18.60	65.01	0.53
Reach1	2375*	Hazel	7.75	155.49	156.08		156.13	0.004643	1.29	13.09	59.81	0.63
Reach1	2375*	SCS II 100yr	7.74	155.49	156.08		156.13	0.004643	1.29	13.08	59.79	0.63
Reach1	2375*	SCS II 50yr	6.96	155.49	156.06		156.11	0.004652	1.25	12.02	58.70	0.62
Reach1	2366.66*	Check	10.06	155.39	156.15		156.18	0.002680	1.18	20.13	68.64	0.50
Reach1	2366.66*	Hazel	7.75	155.39	156.04		156.09	0.004661	1.35	13.20	60.45	0.63
Reach1	2366.66*	SCS II 100yr	7.74	155.39	156.04		156.09	0.004662	1.35	13.18	60.44	0.63
Reach1	2366.66*	SCS II 50yr	6.96	155.39	156.02		156.07	0.004898	1.34	11.89	59.51	0.65
Reach1	2358.32*	Check	10.06	155.29	156.13		156.16	0.001916	1.06	23.52	72.18	0.43
Reach1	2358.32*	Hazel	7.75	155.29	156.11		156.05	0.004178	1.35	14.49	66.87	0.61
Reach1	2358.32*	SCS II 100yr	7.74	155.29	156.00		156.05	0.004195	1.35	14.45	66.85	0.61
Reach1	2358.32*	SCS II 50yr	6.96	155.29	155.96		156.02	0.005663	1.48	11.74	64.58	0.70
Reach1	2349.988	Check	10.06	155.19	156.13		156.14	0.001227	0.90	28.84	77.95	0.34
Reach1	2349.988	Hazel	7.75	155.19	155.99		156.02	0.002591	1.13	18.44	73.07	0.48
Reach1	2349.988	SCS II 100yr	7.74	155.19	155.99		156.02	0.002601	1.13	18.40	73.03	0.48
Reach1	2349.988	SCS II 50yr	6.96	155.19	155.94		155.98	0.003704	1.27	14.90	70.44	0.56
Reach1	2340.06*	Check	10.06	155.10	156.12		156.13	0.000835	0.81	30.25	71.83	0.29
Reach1	2340.06*	Hazel	7.75	155.10	155.97		156.00	0.001487	0.95	20.26	66.79	0.38
Reach1	2340.06*	SCS II 100yr	7.74	155.10	155.97		156.00	0.001492	0.95	20.22	66.78	0.38
Reach1	2340.06*	SCS II 50yr	6.96	155.10	155.92		155.95	0.001976	1.03	16.72	64.28	0.43
Reach1	2330.14*	Check	10.06	155.02	156.11		156.13	0.000590	0.74	31.29	66.76	0.25
Reach1	2330.14*	Hazel	7.75	155.02	155.97		155.98	0.000873	0.80	22.03	60.73	0.30
Reach1	2330.14*	SCS II 100yr	7.74	155.02	155.97		155.98	0.000875	0.80	21.99	60.70	0.30
Reach1	2330.14*	SCS II 50yr	6.96	155.02	155.91		155.93	0.001058	0.84	18.76	58.64	0.32
Reach1	2320.22*	Check	10.06	154.93	156.11		156.12	0.000429	0.68	32.01	63.26	0.22
Reach1	2320.22*	Hazel	7.75	154.93	155.96		155.98	0.000552	0.69	23.33	55.60	0.24
Reach1	2320.22*	SCS II 100yr	7.74	154.93	155.96		155.98	0.000553	0.69	23.30	55.58	0.24
Reach1	2320.22*	SCS II 50yr	6.96	154.93	155.91		155.92	0.000618	0.70	20.37	53.20	0.25
Reach1	2310.3*	Check	10.06	154.85	156.10		156.12	0.000316	0.62	33.52	71.95	0.19
Reach1	2310.3*	Hazel	7.75	154.85	155.96		155.97	0.000370	0.61	24.25	52.30	0.20
Reach1	2310.3*	SCS II 100yr	7.74	154.85	155.96		155.97	0.000370	0.61	24.21	52.29	0.20
Reach1	2310.3*	SCS II 50yr	6.96	154.85	155.90		155.92	0.000396	0.61	21.48	49.52	0.21
Reach1	2300.369	Check	10.06	154.76	156.10		156.11	0.000210	0.54	35.26	56.46	0.16
Reach1	2300.369	Hazel	7.75	154.76	155.96		155.97	0.000237	0.52	27.05	56.03	0.16
Reach1	2300.369	SCS II 100yr	7.74	154.76	155.96		155.97	0.000237	0.52	27.01	56.03	0.16
Reach1	2300.369	SCS II 50yr	6.96	154.76	155.90		155.91	0.000249	0.52	24.00	55.87	0.17
Reach1	2292.73*	Check	10.06	154.76	156.10		156.11	0.000319	0.66	28.92	49.37	0.19
Reach1	2292.73*	Hazel	7.75	154.76	155.95		155.96	0.000365	0.64	21.74	48.51	0.20
Reach1	2292.73*	SCS II 100yr	7.74	154.76	155.95		155.96	0.000365	0.64	21.70	48.51	0.20
Reach1	2292.73*	SCS II 50yr	6.96	154.76	155.89		155.91	0.000387	0.64	19.08	48.29	0.21
Reach1	2285.1*	Check	10.06	154.75	156.08		156.11	0.000513	0.82	23.02	41.87	0.25
Reach1	2285.1*	Hazel	7.75	154.75	155.94		155.96	0.000585	0.80	16.97	39.72	0.26
Reach1	2285.1*	SCS II 100yr	7.74	154.75	155.93		155.96	0.000586	0.80	16.94	39.71	0.26
Reach1	2285.1*	SCS II 50yr	6.96	154.75	155.88		155.91	0.000590	0.78	14.97	33.54	0.25
Reach1	2277.462	Check	10.06	154.75	156.06		156.10	0.000910	1.07	17.49	33.39	0.32
Reach1	2277.462	Hazel	7.75	154.75	155.91		155.95	0.000998	1.02	12.88	24.73	0.33
Reach1	2277.462	SCS II 100yr	7.74	154.75	155.91		155.95	0.000998	1.02	12.86	24.68	0.33
Reach1	2277.462	SCS II 50yr	6.96	154.75	155.86		155.90	0.001026	0.99	11.59	23.47	0.33
Reach1	2269.95*	Check	10.06	154.78	156.00		156.09	0.001721	1.40	12.06	34.15	0.44
Reach1	2269.95*	Hazel	7.75	154.78	155.86		155.94	0.001850	1.32	8.29	18.30	0.44
Reach1	2269.95*	SCS II 100yr	7.74	154.78	155.86		155.94	0.001850	1.32	8.27	18.28	0.44
Reach1	2269.95*	SCS II 50yr	6.96	154.78	155.81		155.88	0.001883	1.28	7.38	16.68	0.44
Reach1	2262.43*	Check	10.06	154.81	155.94		156.07	0.002572	1.62	8.18	21.36	0.53
Reach1	2262.43*	Hazel	7.75	154.81	155.81		155.92	0.002641	1.49	6.20	12.21	0.52
Reach1	2262.43*	SCS II 100yr	7.74	154.81	155.81		155.92	0.002641	1.49	6.19	12.20	0.52
Reach1	2262.43*	SCS II 50yr	6.96	154.81	155.77		155.87	0.002663	1.44	5.62	11.60	0.52
Reach1	2254.91*	Check	10.06	154.85	155.88		156.04	0.003613	1.81	6.49	13.07	0.62
Reach1	2254.91*	Hazel	7.75	154.85	155.77		155.90	0.003586	1.64	5.23	9.18	0.60
Reach1	2254.91*	SCS II 100yr	7.74	154.85	155.77		155.90	0.003586	1.64	5.23	9.18	0.60
Reach1	2254.91*	SCS II 50yr	6.96	154.85	155.72		155.84	0.003614	1.58	4.81	8.82	0.60

HEC-RAS Plan: Prop River: ShoreacresEast Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	2247.395	Check	10.06	154.88	155.68	155.68	155.99	0.009948	2.47	4.31	8.03	0.97
Reach1	2247.395	Hazel	7.75	154.88	155.57	155.57	155.84	0.010851	2.29	3.49	7.36	0.99
Reach1	2247.395	SCS II 100yr	7.74	154.88	155.57	155.57	155.84	0.010857	2.29	3.48	7.36	0.99
Reach1	2247.395	SCS II 50yr	6.96	154.88	155.54	155.54	155.79	0.011031	2.21	3.22	7.15	0.98
Reach1	2239.5*	Check	10.06	154.57	155.06	155.27	155.77	0.059369	3.74	2.70	8.75	2.12
Reach1	2239.5*	Hazel	7.75	154.57	155.00	155.19	155.62	0.060300	3.48	2.23	8.02	2.10
Reach1	2239.5*	SCS II 100yr	7.74	154.57	155.00	155.19	155.62	0.060307	3.47	2.23	8.02	2.10
Reach1	2239.5*	SCS II 50yr	6.96	154.57	154.98	155.16	155.56	0.060671	3.38	2.06	7.72	2.09
Reach1	2231.6*	Check	10.06	154.26	154.78	154.94	155.27	0.040461	3.11	3.30	10.97	1.76
Reach1	2231.6*	Hazel	7.75	154.26	154.73	154.86	155.14	0.037952	2.83	2.77	10.04	1.68
Reach1	2231.6*	SCS II 100yr	7.74	154.26	154.73	154.86	155.14	0.037944	2.83	2.77	10.04	1.68
Reach1	2231.6*	SCS II 50yr	6.96	154.26	154.71	154.83	155.09	0.037179	2.72	2.58	9.72	1.65
Reach1	2223.7*	Check	10.06	153.94	154.48	154.62	154.91	0.037174	2.94	3.62	13.00	1.68
Reach1	2223.7*	Hazel	7.75	153.94	154.42	154.55	154.80	0.036371	2.74	2.95	11.31	1.64
Reach1	2223.7*	SCS II 100yr	7.74	153.94	154.42	154.55	154.80	0.036367	2.74	2.95	11.30	1.64
Reach1	2223.7*	SCS II 50yr	6.96	153.94	154.40	154.52	154.76	0.036130	2.66	2.72	10.71	1.62
Reach1	2215.8*	Check	10.06	153.63	154.15	154.29	154.58	0.037556	2.99	3.85	13.77	1.70
Reach1	2215.8*	Hazel	7.75	153.63	154.09	154.22	154.49	0.034755	2.86	3.08	11.75	1.63
Reach1	2215.8*	SCS II 100yr	7.74	153.63	154.09	154.22	154.49	0.034737	2.86	3.07	11.74	1.63
Reach1	2215.8*	SCS II 50yr	6.96	153.63	154.07	154.20	154.45	0.033139	2.81	2.79	10.93	1.59
Reach1	2207.9*	Check	10.06	153.32	153.78	153.94	154.24	0.038589	3.24	3.86	12.33	1.75
Reach1	2207.9*	Hazel	7.75	153.32	153.71	153.86	154.14	0.043711	3.11	3.08	11.80	1.81
Reach1	2207.9*	SCS II 100yr	7.74	153.32	153.71	153.86	154.14	0.043738	3.11	3.08	11.80	1.81
Reach1	2207.9*	SCS II 50yr	6.96	153.32	153.69	153.84	154.11	0.046238	3.05	2.81	11.60	1.84
Reach1	2200	Check	10.06	153.01	153.38	153.52	153.83	0.056568	3.36	3.81	12.95	2.04
Reach1	2200	Hazel	7.75	153.01	153.34	153.45	153.70	0.055583	3.03	3.25	12.60	1.97
Reach1	2200	SCS II 100yr	7.74	153.01	153.34	153.45	153.70	0.055535	3.02	3.25	12.60	1.97
Reach1	2200	SCS II 50yr	6.96	153.01	153.33	153.42	153.65	0.053322	2.87	3.08	12.49	1.92
Reach1	2186.57*	Check	10.06	152.86	153.34	153.40	153.58	0.019806	2.44	5.26	13.89	1.27
Reach1	2186.57*	Hazel	7.75	152.86	153.19	153.30	153.55	0.050203	2.98	3.29	12.61	1.89
Reach1	2186.57*	SCS II 100yr	7.74	152.86	153.19	153.30	153.55	0.050462	2.98	3.28	12.61	1.90
Reach1	2186.57*	SCS II 50yr	6.96	152.86	153.28	153.27	153.44	0.015180	1.96	4.51	13.41	1.09
Reach1	2173.15*	Check	10.06	152.71	153.36	153.24	153.44	0.007101	1.38	8.48	21.88	0.75
Reach1	2173.15*	Hazel	7.75	152.71	153.10	153.17	153.34	0.025109	2.41	4.04	13.19	1.38
Reach1	2173.15*	SCS II 100yr	7.74	152.71	153.10	153.17	153.34	0.025131	2.41	4.03	13.19	1.38
Reach1	2173.15*	SCS II 50yr	6.96	152.71	153.13	153.12	153.29	0.015501	1.99	4.41	13.44	1.10
Reach1	2159.73*	Check	10.06	152.56	153.36	153.01	153.39	0.002070	0.89	12.92	26.63	0.42
Reach1	2159.73*	Hazel	7.75	152.56	153.08	153.01	153.17	0.009386	1.44	6.30	19.52	0.84
Reach1	2159.73*	SCS II 100yr	7.74	152.56	153.08	153.01	153.17	0.009435	1.44	6.29	19.48	0.84
Reach1	2159.73*	SCS II 50yr	6.96	152.56	153.01	152.99	153.13	0.013588	1.65	5.00	16.89	1.00
Reach1	2146.3*	Check	10.06	152.42	153.36	153.04	153.38	0.000681	0.68	18.50	33.53	0.26
Reach1	2146.3*	Hazel	7.75	152.42	153.08	153.11	153.11	0.002212	0.87	10.23	23.76	0.43
Reach1	2146.3*	SCS II 100yr	7.74	152.42	153.08	153.11	153.11	0.002223	0.87	10.21	23.76	0.43
Reach1	2146.3*	SCS II 50yr	6.96	152.42	153.00	153.04	153.04	0.003258	0.94	8.46	22.93	0.51
Reach1	2132.88*	Check	10.06	152.27	153.36	153.02	153.37	0.000293	0.54	26.67	38.67	0.18
Reach1	2132.88*	Hazel	7.75	152.27	153.08	153.10	153.10	0.000655	0.64	16.27	35.44	0.25
Reach1	2132.88*	SCS II 100yr	7.74	152.27	153.08	153.10	153.10	0.000657	0.64	16.24	35.42	0.25
Reach1	2132.88*	SCS II 50yr	6.96	152.27	153.00	153.02	153.02	0.000819	0.66	13.72	31.62	0.28
Reach1	2119.45*	Check	10.06	152.12	153.36	153.01	153.37	0.000149	0.45	36.01	41.02	0.13
Reach1	2119.45*	Hazel	7.75	152.12	153.08	153.09	153.09	0.000252	0.48	24.94	38.07	0.16
Reach1	2119.45*	SCS II 100yr	7.74	152.12	153.08	153.09	153.09	0.000252	0.48	24.90	38.06	0.16
Reach1	2119.45*	SCS II 50yr	6.96	152.12	153.01	153.01	153.01	0.000288	0.48	22.06	37.31	0.17
Reach1	2106.028	Check	10.06	151.97	153.36	153.01	153.37	0.000085	0.37	45.90	41.85	0.10
Reach1	2106.028	Hazel	7.75	151.97	153.08	153.09	153.09	0.000120	0.38	34.50	40.10	0.12
Reach1	2106.028	SCS II 100yr	7.74	151.97	153.08	153.09	153.09	0.000120	0.38	34.46	40.10	0.12
Reach1	2106.028	SCS II 50yr	6.96	151.97	153.01	153.01	153.01	0.000128	0.37	31.46	39.59	0.12
Reach1	2104.8*	Check	10.06	152.01	153.36	153.01	153.36	0.000061	0.31	52.26	48.54	0.09
Reach1	2104.8*	Hazel	7.75	152.01	153.08	153.09	153.09	0.000087	0.31	39.04	46.48	0.10
Reach1	2104.8*	SCS II 100yr	7.74	152.01	153.08	153.09	153.09	0.000087	0.31	39.00	46.48	0.10
Reach1	2104.8*	SCS II 50yr	6.96	152.01	153.01	153.01	153.01	0.000093	0.31	35.51	45.90	0.10
Reach1	2103.57*	Check	10.06	152.05	153.36	153.01	153.36	0.000047	0.27	58.16	55.30	0.08

HEC-RAS Plan: Prop River: ShoreacresEast Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	2103.57*	Hazel	7.75	152.05	153.08		153.09	0.000069	0.27	43.11	52.89	0.09
Reach1	2103.57*	SCS II 100yr	7.74	152.05	153.08		153.08	0.000069	0.27	43.05	52.88	0.09
Reach1	2103.57*	SCS II 50yr	6.96	152.05	153.01		153.01	0.000074	0.27	39.08	52.27	0.09
Reach1	2102.34*	Check	10.06	152.10	153.36		153.36	0.000039	0.24	63.60	62.25	0.07
Reach1	2102.34*	Hazel	7.75	152.10	153.08		153.09	0.000058	0.24	46.67	59.37	0.08
Reach1	2102.34*	SCS II 100yr	7.74	152.10	153.08		153.08	0.000058	0.24	46.62	59.36	0.08
Reach1	2102.34*	SCS II 50yr	6.96	152.10	153.01		153.01	0.000064	0.24	42.16	58.65	0.08
Reach1	2101.11*	Check	10.06	152.14	153.36		153.36	0.000033	0.21	68.47	69.20	0.06
Reach1	2101.11*	Hazel	7.75	152.14	153.08		153.08	0.000052	0.22	49.67	65.80	0.08
Reach1	2101.11*	SCS II 100yr	7.74	152.14	153.08		153.08	0.000052	0.22	49.61	65.79	0.08
Reach1	2101.11*	SCS II 50yr	6.96	152.14	153.01		153.01	0.000058	0.22	44.66	64.96	0.08
Reach1	2099.88*	Check	10.06	152.18	153.36		153.36	0.000030	0.20	72.96	76.68	0.06
Reach1	2099.88*	Hazel	7.75	152.18	153.08		153.08	0.000048	0.21	52.24	72.35	0.07
Reach1	2099.88*	SCS II 100yr	7.74	152.18	153.08		153.08	0.000048	0.21	52.17	72.33	0.07
Reach1	2099.88*	SCS II 50yr	6.96	152.18	153.01		153.01	0.000055	0.21	46.73	71.38	0.08
Reach1	2098.65*	Check	10.06	152.22	153.36		153.36	0.000028	0.18	76.99	85.47	0.06
Reach1	2098.65*	Hazel	7.75	152.22	153.08		153.08	0.000047	0.20	54.27	78.95	0.07
Reach1	2098.65*	SCS II 100yr	7.74	152.22	153.08		153.08	0.000047	0.20	54.19	78.93	0.07
Reach1	2098.65*	SCS II 50yr	6.96	152.22	153.01		153.01	0.000054	0.20	48.25	77.81	0.07
Reach1	2097.42*	Check	10.06	152.26	153.36		153.36	0.000026	0.17	80.72	94.03	0.05
Reach1	2097.42*	Hazel	7.75	152.26	153.08		153.08	0.000046	0.19	55.87	85.64	0.07
Reach1	2097.42*	SCS II 100yr	7.74	152.26	153.08		153.08	0.000046	0.19	55.79	85.62	0.07
Reach1	2097.42*	SCS II 50yr	6.96	152.26	153.00		153.01	0.000054	0.19	49.35	84.31	0.07
Reach1	2096.18*	Check	10.06	152.30	153.36		153.36	0.000025	0.17	83.90	102.43	0.05
Reach1	2096.18*	Hazel	7.75	152.30	153.08		153.08	0.000047	0.18	56.84	92.44	0.07
Reach1	2096.18*	SCS II 100yr	7.74	152.30	153.08		153.08	0.000047	0.18	56.75	92.42	0.07
Reach1	2096.18*	SCS II 50yr	6.96	152.30	153.00		153.01	0.000057	0.19	49.79	90.93	0.07
Reach1	2094.95*	Check	10.06	152.34	153.36		153.36	0.000025	0.16	86.81	111.25	0.05
Reach1	2094.95*	Hazel	7.75	152.34	153.08		153.08	0.000049	0.18	57.43	99.36	0.07
Reach1	2094.95*	SCS II 100yr	7.74	152.34	153.08		153.08	0.000049	0.18	57.33	99.29	0.07
Reach1	2094.95*	SCS II 50yr	6.96	152.34	153.00		153.00	0.000061	0.18	49.84	97.50	0.08
Reach1	2093.71*	Check	10.06	152.38	153.36		153.36	0.000025	0.16	89.33	120.40	0.05
Reach1	2093.71*	Hazel	7.75	152.38	153.08		153.08	0.000053	0.18	57.50	106.84	0.07
Reach1	2093.71*	SCS II 100yr	7.74	152.38	153.08		153.08	0.000053	0.18	57.40	106.81	0.07
Reach1	2093.71*	SCS II 50yr	6.96	152.38	153.00		153.00	0.000068	0.18	49.36	104.27	0.08
Reach1	2092.48*	Check	10.06	152.42	153.36		153.36	0.000025	0.15	91.39	130.07	0.05
Reach1	2092.48*	Hazel	7.75	152.42	153.08		153.08	0.000059	0.18	56.94	114.74	0.08
Reach1	2092.48*	SCS II 100yr	7.74	152.42	153.08		153.08	0.000060	0.18	56.82	114.70	0.08
Reach1	2092.48*	SCS II 50yr	6.96	152.42	153.00		153.00	0.000079	0.19	48.18	111.50	0.08
Reach1	2091.24*	Check	10.06	152.46	153.36		153.36	0.000026	0.15	93.37	140.05	0.05
Reach1	2091.24*	Hazel	7.75	152.46	153.08		153.08	0.000067	0.18	56.18	123.64	0.08
Reach1	2091.24*	SCS II 100yr	7.74	152.46	153.08		153.08	0.000067	0.18	56.06	123.56	0.08
Reach1	2091.24*	SCS II 50yr	6.96	152.46	153.00		153.00	0.000093	0.19	46.77	119.00	0.09
Reach1	2090.01*	Check	10.06	152.50	153.36		153.36	0.000027	0.15	95.04	150.97	0.05
Reach1	2090.01*	Hazel	7.75	152.50	153.08		153.08	0.000079	0.19	54.93	133.28	0.08
Reach1	2090.01*	SCS II 100yr	7.74	152.50	153.08		153.08	0.000079	0.19	54.79	133.21	0.08
Reach1	2090.01*	SCS II 50yr	6.96	152.50	153.00		153.00	0.000116	0.20	44.73	127.23	0.10
Reach1	2088.772	Check	10.06	152.54	153.36		153.36	0.000028	0.14	96.83	164.98	0.05
Reach1	2088.772	Hazel	7.75	152.54	153.08		153.08	0.000095	0.19	53.38	143.78	0.09
Reach1	2088.772	SCS II 100yr	7.74	152.54	153.08		153.08	0.000096	0.19	53.24	143.70	0.09
Reach1	2088.772	SCS II 50yr	6.96	152.54	153.00		153.00	0.000151	0.21	42.32	137.14	0.11
Reach1	1928.062	Check	10.06	151.78	153.33	152.38	153.35	0.000315	0.67	15.07	76.10	0.19
Reach1	1928.062	Hazel	7.75	151.78	153.03	152.31	153.05	0.000418	0.67	11.53	61.22	0.21
Reach1	1928.062	SCS II 100yr	7.74	151.78	153.03	152.31	153.05	0.000418	0.67	11.51	61.17	0.21
Reach1	1928.062	SCS II 50yr	6.96	151.78	152.94	152.28	152.96	0.000443	0.66	10.53	57.51	0.22
Reach1	1896.123	Culvert										
Reach1	1866.506	Check	10.06	150.79	151.24	151.39	151.73	0.052752	3.10	3.25	15.09	1.95
Reach1	1866.506	Hazel	7.75	150.79	151.17	151.32	151.73	0.088016	3.33	2.33	14.15	2.40
Reach1	1866.506	SCS II 100yr	7.74	150.79	151.17	151.32	151.73	0.088328	3.33	2.33	14.14	2.41
Reach1	1866.506	SCS II 50yr	6.96	150.79	151.14	151.30	151.77	0.119770	3.53	1.97	13.37	2.74
Reach1	1845.826	Check	10.06	150.37	151.22	151.10	151.33	0.005114	1.46	7.19	16.68	0.67

HEC-RAS Plan: Prop River: ShoreacresEast Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	1845.826	Hazel	7.75	150.37	151.15	151.03	151.24	0.005035	1.33	5.98	15.86	0.65
Reach1	1845.826	SCS II 100yr	7.74	150.37	151.15	151.03	151.24	0.005035	1.33	5.98	15.85	0.65
Reach1	1845.826	SCS II 50yr	6.96	150.37	151.12	151.00	151.20	0.004972	1.28	5.56	15.44	0.64
Reach1	1799.999	Check	10.06	150.12	150.99		151.09	0.005172	1.43	7.09	16.36	0.67
Reach1	1799.999	Hazel	7.75	150.12	150.91		151.00	0.005204	1.31	5.91	14.93	0.66
Reach1	1799.999	SCS II 100yr	7.74	150.12	150.91		151.00	0.005205	1.31	5.90	14.92	0.66
Reach1	1799.999	SCS II 50yr	6.96	150.12	150.88		150.97	0.005317	1.27	5.46	14.34	0.66
Reach1	1700	Check	10.06	149.57	150.37		150.50	0.006888	1.56	6.49	15.99	0.76
Reach1	1700	Hazel	7.75	149.57	150.31		150.41	0.006651	1.41	5.51	14.86	0.73
Reach1	1700	SCS II 100yr	7.74	149.57	150.31		150.41	0.006650	1.40	5.51	14.85	0.73
Reach1	1700	SCS II 50yr	6.96	149.57	150.28		150.38	0.006720	1.37	5.09	14.30	0.73
Reach1	1599.999	Check	10.06	149.12	149.92		150.00	0.003690	1.26	8.52	21.96	0.57
Reach1	1599.999	Hazel	7.75	149.12	149.84		149.91	0.003849	1.16	6.93	18.59	0.57
Reach1	1599.999	SCS II 100yr	7.74	149.12	149.84		149.91	0.003850	1.16	6.92	18.58	0.57
Reach1	1599.999	SCS II 50yr	6.96	149.12	149.81		149.87	0.003768	1.11	6.45	17.43	0.56
Reach1	1499.999	Check	10.06	148.35	149.31		149.47	0.007800	1.78	5.66	11.93	0.82
Reach1	1499.999	Hazel	7.75	148.35	149.21		149.36	0.008357	1.71	4.53	10.64	0.84
Reach1	1499.999	SCS II 100yr	7.74	148.35	149.21		149.36	0.008360	1.71	4.53	10.63	0.84
Reach1	1499.999	SCS II 50yr	6.96	148.35	149.17		149.31	0.008665	1.69	4.12	10.13	0.85
Reach1	1400	Check	10.06	147.70	148.90		148.98	0.003060	1.30	7.73	12.80	0.54
Reach1	1400	Hazel	7.75	147.70	148.79		148.86	0.002988	1.21	6.41	11.65	0.52
Reach1	1400	SCS II 100yr	7.74	147.70	148.79		148.86	0.002988	1.21	6.40	11.65	0.52
Reach1	1400	SCS II 50yr	6.96	147.70	148.75		148.82	0.002928	1.17	5.96	11.24	0.51
Reach1	1320.169	Check	10.06	147.38	148.30	148.30	148.54	0.011923	2.15	4.68	10.14	1.01
Reach1	1320.169	Hazel	7.75	147.38	148.21	148.21	148.42	0.012342	2.04	3.80	9.13	1.01
Reach1	1320.169	SCS II 100yr	7.74	147.38	148.21	148.21	148.42	0.012339	2.04	3.79	9.13	1.01
Reach1	1320.169	SCS II 50yr	6.96	147.38	148.17	148.17	148.38	0.012520	2.00	3.48	8.75	1.01
Reach1	1300.122	Check	10.06	146.99	148.31	147.98	148.39	0.002405	1.21	8.33	12.82	0.48
Reach1	1300.122	Hazel	7.75	146.99	148.06	147.88	148.16	0.004515	1.44	5.39	10.25	0.63
Reach1	1300.122	SCS II 100yr	7.74	146.99	148.06	147.88	148.16	0.004532	1.44	5.38	10.23	0.63
Reach1	1300.122	SCS II 50yr	6.96	146.99	147.95	147.84	148.08	0.006448	1.60	4.34	9.15	0.74
Reach1	1275.115		Culvert									
Reach1	1250.108	Check	10.06	146.51	147.02	147.35	148.61	0.182234	5.59	1.80	7.23	3.58
Reach1	1250.108	Hazel	7.75	146.51	146.93	147.27	149.04	0.311164	6.44	1.20	5.84	4.53
Reach1	1250.108	SCS II 100yr	7.74	146.51	146.93	147.27	149.05	0.311927	6.45	1.20	5.83	4.54
Reach1	1250.108	SCS II 50yr	6.96	146.51	146.90	147.23	149.27	0.387673	6.82	1.02	5.37	4.99
Reach1	1230.098	Check	10.06	146.42	147.33	147.26	147.48	0.008074	1.74	5.78	12.91	0.83
Reach1	1230.098	Hazel	7.75	146.42	147.10	147.18	147.39	0.022273	2.39	3.24	9.62	1.32
Reach1	1230.098	SCS II 100yr	7.74	146.42	147.10	147.18	147.39	0.022305	2.39	3.23	9.61	1.32
Reach1	1230.098	SCS II 50yr	6.96	146.42	147.06	147.14	147.37	0.025432	2.45	2.84	8.99	1.39
Reach1	1155.216	Check	10.06	146.09	146.95	146.80	147.04	0.004230	1.33	7.77	18.08	0.61
Reach1	1155.216	Hazel	7.75	146.09	146.94	146.73	147.00	0.002608	1.03	7.66	17.95	0.48
Reach1	1155.216	SCS II 100yr	7.74	146.09	146.94	146.73	147.00	0.002614	1.03	7.64	17.93	0.48
Reach1	1155.216	SCS II 50yr	6.96	146.09	146.91	146.70	146.96	0.002638	1.00	7.05	17.17	0.48
Reach1	1042.735	Check	10.06	145.80	146.43	146.35	146.51	0.005323	1.28	9.80	50.69	0.66
Reach1	1042.735	Hazel	7.75	145.80	146.29	146.29	146.42	0.013441	1.62	4.87	19.80	0.99
Reach1	1042.735	SCS II 100yr	7.74	145.80	146.29	146.29	146.42	0.013366	1.61	4.87	19.81	0.99
Reach1	1042.735	SCS II 50yr	6.96	145.80	146.27	146.27	146.39	0.012748	1.53	4.59	19.16	0.96
Reach1	1005.324	Check	10.06	145.15	146.38	145.93	146.41	0.001148	0.82	12.29	19.72	0.33
Reach1	1005.324	Hazel	7.75	145.15	146.17	145.85	146.21	0.001869	0.92	8.45	16.47	0.41
Reach1	1005.324	SCS II 100yr	7.74	145.15	146.17	145.85	146.21	0.001874	0.92	8.43	16.45	0.41
Reach1	1005.324	SCS II 50yr	6.96	145.15	146.09	145.81	146.14	0.002258	0.96	7.25	15.24	0.44
Reach1	981.4256		Culvert									
Reach1	956.4106	Check	10.06	144.82	145.33	145.57	146.18	0.088482	4.08	2.46	9.27	2.53
Reach1	956.4106	Hazel	7.75	144.82	145.24	145.51	146.31	0.146872	4.57	1.69	7.86	3.15
Reach1	956.4106	SCS II 100yr	7.74	144.82	145.24	145.51	146.31	0.147264	4.58	1.69	7.85	3.15
Reach1	956.4106	SCS II 50yr	6.96	144.82	145.21	145.48	146.39	0.182133	4.80	1.45	7.36	3.45
Reach1	939.1232	Check	10.06	144.82	145.40	145.28	145.46	0.003544	1.17	11.51	34.95	0.55
Reach1	939.1232	Hazel	7.75	144.82	145.33	145.23	145.39	0.003800	1.09	9.26	33.11	0.56
Reach1	939.1232	SCS II 100yr	7.74	144.82	145.33	145.23	145.39	0.003791	1.08	9.26	33.11	0.56
Reach1	939.1232	SCS II 50yr	6.96	144.82	145.34	145.22	145.38	0.002834	0.95	9.53	33.31	0.48

HEC-RAS Plan: Prop River: ShoreacresEast Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach1	868.4183	Check	10.06	144.51	145.28		145.31	0.001321	0.87	14.85	32.19	0.36
Reach1	868.4183	Hazel	7.75	144.51	145.06		145.12	0.003929	1.12	8.28	28.15	0.57
Reach1	868.4183	SCS II 100yr	7.74	144.51	145.06		145.12	0.003956	1.12	8.26	28.13	0.57
Reach1	868.4183	SCS II 50yr	6.96	144.51	144.97	144.93	145.06	0.008251	1.36	5.81	25.73	0.79
Reach1	772.6842	Check	10.06	143.94	145.26		145.27	0.000140	0.43	33.60	39.01	0.13
Reach1	772.6842	Hazel	7.75	143.94	145.05		145.06	0.000183	0.42	25.42	36.58	0.14
Reach1	772.6842	SCS II 100yr	7.74	143.94	145.05		145.05	0.000184	0.42	25.38	36.57	0.14
Reach1	772.6842	SCS II 50yr	6.96	143.94	144.97		144.97	0.000209	0.42	22.47	35.67	0.15
Reach1	751.2998	Check	10.06	143.88	145.17	144.56	145.26	0.001101	1.28	7.84	34.40	0.37
Reach1	751.2998	Hazel	7.75	143.88	144.97	144.46	145.04	0.001183	1.18	6.56	31.41	0.37
Reach1	751.2998	SCS II 100yr	7.74	143.88	144.97	144.46	145.04	0.001183	1.18	6.56	31.39	0.37
Reach1	751.2998	SCS II 50yr	6.96	143.88	144.89	144.43	144.96	0.001233	1.15	6.07	28.94	0.37
Reach1	732.0614		Culvert									
Reach1	708.9510	Check	10.06	143.25	143.71	144.15	146.29	0.282549	7.12	1.41	9.33	4.48
Reach1	708.9510	Hazel	7.75	143.25	143.62	144.04	146.94	0.546737	8.07	0.96	5.48	5.92
Reach1	708.9510	SCS II 100yr	7.74	143.25	143.62	144.04	146.95	0.548615	8.07	0.96	5.47	5.93
Reach1	708.9510	SCS II 50yr	6.96	143.25	143.59	144.00	147.36	0.745153	8.59	0.81	5.03	6.75
Reach1	679.9868	Check	10.06	143.25	143.77	143.68	143.81	0.003149	1.01	16.49	71.28	0.51
Reach1	679.9868	Hazel	7.75	143.25	143.74	143.65	143.77	0.002805	0.90	13.99	68.28	0.48
Reach1	679.9868	SCS II 100yr	7.74	143.25	143.74	143.65	143.77	0.002804	0.90	13.98	68.26	0.48
Reach1	679.9868	SCS II 50yr	6.96	143.25	143.72	143.63	143.75	0.002752	0.86	12.90	66.94	0.47
Reach1	600	Check	10.06	143.15	143.35		143.38	0.011967	0.86	14.08	72.56	0.81
Reach1	600	Hazel	7.75	143.15	143.32		143.34	0.013136	0.70	11.56	67.19	0.80
Reach1	600	SCS II 100yr	7.74	143.15	143.32		143.34	0.013133	0.70	11.55	67.17	0.80
Reach1	600	SCS II 50yr	6.96	143.15	143.30		143.32	0.013500	0.65	10.67	64.94	0.79
Reach1	499.9999	Check	10.06	142.26	142.66		142.70	0.004631	1.14	14.03	54.75	0.61
Reach1	499.9999	Hazel	7.75	142.26	142.61		142.65	0.004564	1.03	11.66	51.42	0.59
Reach1	499.9999	SCS II 100yr	7.74	142.26	142.61		142.65	0.004565	1.03	11.65	51.40	0.59
Reach1	499.9999	SCS II 50yr	6.96	142.26	142.60		142.63	0.004488	0.99	10.85	50.24	0.58
Reach1	400	Check	10.06	141.63	141.97	141.96	142.07	0.012879	1.59	9.73	48.94	0.97
Reach1	400	Hazel	7.75	141.63	141.94	141.92	142.02	0.013075	1.46	7.97	45.24	0.96
Reach1	400	SCS II 100yr	7.74	141.63	141.94	141.92	142.02	0.013079	1.46	7.97	45.22	0.96
Reach1	400	SCS II 50yr	6.96	141.63	141.92	141.91	142.00	0.013555	1.41	7.27	43.51	0.96
Reach1	300	Check	10.06	140.44	140.84	140.79	140.92	0.009557	1.46	10.59	46.56	0.85
Reach1	300	Hazel	7.75	140.44	140.80	140.87	140.87	0.009540	1.36	8.59	41.71	0.84
Reach1	300	SCS II 100yr	7.74	140.44	140.80	140.87	140.87	0.009535	1.36	8.58	41.70	0.84
Reach1	300	SCS II 50yr	6.96	140.44	140.78	140.85	140.85	0.009290	1.31	7.99	40.75	0.82
Reach1	200	Check	10.06	139.16	139.70	139.70	139.86	0.011804	1.78	6.20	23.39	0.97
Reach1	200	Hazel	7.75	139.16	139.65	139.65	139.78	0.012465	1.63	5.03	20.95	0.97
Reach1	200	SCS II 100yr	7.74	139.16	139.65	139.65	139.78	0.012474	1.63	5.02	20.93	0.97
Reach1	200	SCS II 50yr	6.96	139.16	139.63	139.63	139.76	0.013093	1.59	4.58	19.90	0.98
Reach1	142.6205	Check	10.06	138.13	139.57	139.00	139.61	0.000866	0.83	12.10	15.18	0.30
Reach1	142.6205	Hazel	7.75	138.13	139.39	138.91	139.42	0.001034	0.82	9.46	13.89	0.32
Reach1	142.6205	SCS II 100yr	7.74	138.13	139.39	138.91	139.42	0.001034	0.82	9.45	13.88	0.32
Reach1	142.6205	SCS II 50yr	6.96	138.13	139.35	138.88	139.38	0.000993	0.78	8.88	13.52	0.31
Reach1	108.9117	Check	10.06	138.19	139.45	139.20	139.55	0.003435	1.40	7.18	11.52	0.57
Reach1	108.9117	Hazel	7.75	138.19	139.14	139.10	139.33	0.009784	1.94	4.00	8.70	0.91
Reach1	108.9117	SCS II 100yr	7.74	138.19	139.14	139.10	139.33	0.009863	1.94	3.99	8.68	0.91
Reach1	108.9117	SCS II 50yr	6.96	138.19	139.06	139.06	139.28	0.012291	2.06	3.38	7.95	1.01
Reach1	82.90332		Culvert									
Reach1	56.36505	Check	10.06	137.61	138.09	138.29	138.75	0.077346	3.58	2.81	11.66	2.33
Reach1	56.36505	Hazel	7.75	137.61	138.01	138.22	138.88	0.135006	4.13	1.88	9.54	2.98
Reach1	56.36505	SCS II 100yr	7.74	137.61	138.01	138.22	138.88	0.135372	4.13	1.87	9.53	2.98
Reach1	56.36505	SCS II 50yr	6.96	137.61	137.97	138.19	138.96	0.169282	4.40	1.58	8.70	3.29
Reach1	27.12670	Check	10.06	137.34	137.87	137.84	137.95	0.010530	1.40	11.29	48.27	0.87
Reach1	27.12670	Hazel	7.75	137.34	137.83	137.80	137.90	0.010531	1.28	9.44	47.46	0.85
Reach1	27.12670	SCS II 100yr	7.74	137.34	137.83	137.80	137.90	0.010531	1.28	9.44	47.46	0.85
Reach1	27.12670	SCS II 50yr	6.96	137.34	137.81	137.79	137.88	0.010532	1.24	8.77	47.16	0.85

HEC-RAS Plan: Prop River: RIVER-2 Reach: Reach-3

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach-3	441	Check	18.34	164.93	165.62	165.47	165.66	0.003787	1.17	22.45	57.68	0.54
Reach-3	441	Regional	21.51	164.93	165.79	165.50	165.81	0.001678	0.95	31.98	57.68	0.38
Reach-3	441	100	14.11	164.93	165.46	165.43	165.53	0.012190	1.58	12.90	57.17	0.91
Reach-3	441	50	12.68	164.93	165.43	165.43	165.51	0.012971	1.60	11.59	56.20	0.93
Reach-3	440.8*	Check	18.34	164.89	165.61		165.65	0.002636	1.03	25.21	58.59	0.46
Reach-3	440.8*	Regional	21.51	164.89	165.78		165.81	0.001258	0.86	35.13	58.59	0.33
Reach-3	440.8*	100	14.11	164.89	165.42		165.49	0.010199	1.46	13.60	58.59	0.83
Reach-3	440.8*	50	12.68	164.89	165.38	165.37	165.46	0.013157	1.53	11.51	58.41	0.92
Reach-3	440.6*	Check	18.34	164.84	165.61		165.64	0.001882	0.91	28.08	59.49	0.39
Reach-3	440.6*	Regional	21.51	164.84	165.78		165.80	0.000965	0.78	38.30	59.49	0.29
Reach-3	440.6*	100	14.11	164.84	165.39		165.45	0.007305	1.29	15.05	59.49	0.71
Reach-3	440.6*	50	12.68	164.84	165.34		165.41	0.011149	1.41	11.89	56.16	0.85
Reach-3	440.4*	Check	18.34	164.79	165.61		165.63	0.001375	0.82	31.05	60.40	0.34
Reach-3	440.4*	Regional	21.51	164.79	165.78		165.80	0.000753	0.72	41.53	60.40	0.26
Reach-3	440.4*	100	14.11	164.79	165.38		165.42	0.004866	1.11	17.10	60.40	0.59
Reach-3	440.4*	50	12.68	164.79	165.31		165.36	0.007838	1.24	13.21	54.75	0.72
Reach-3	440.2*	Check	18.34	164.75	165.60		165.62	0.001030	0.74	34.09	61.30	0.30
Reach-3	440.2*	Regional	21.51	164.75	165.78		165.79	0.000598	0.67	44.79	61.30	0.24
Reach-3	440.2*	100	14.11	164.75	165.37		165.40	0.003232	0.97	19.51	61.30	0.49
Reach-3	440.2*	50	12.68	164.75	165.29		165.33	0.005117	1.06	15.15	54.85	0.59
Reach-3	440	Check	18.34	164.70	165.60		165.62	0.000791	0.68	37.12	62.21	0.26
Reach-3	440	Regional	21.51	164.70	165.78		165.79	0.000484	0.62	48.03	62.21	0.21
Reach-3	440	100	14.11	164.70	165.36		165.39	0.002206	0.85	22.08	62.21	0.41
Reach-3	440	50	12.68	164.70	165.28		165.32	0.003335	0.92	17.42	55.47	0.49
Reach-3	439.83*	Check	18.34	164.69	165.60		165.61	0.000743	0.67	38.10	64.65	0.26
Reach-3	439.83*	Regional	21.51	164.69	165.78		165.79	0.000454	0.61	49.76	66.19	0.21
Reach-3	439.83*	100	14.11	164.69	165.35		165.38	0.001895	0.80	23.04	57.32	0.38
Reach-3	439.83*	50	12.68	164.69	165.27		165.30	0.002873	0.87	18.50	54.31	0.45
Reach-3	439.66*	Check	18.34	164.68	165.60		165.61	0.000643	0.63	39.93	63.69	0.24
Reach-3	439.66*	Regional	21.51	164.68	165.78		165.79	0.000412	0.59	51.56	67.03	0.20
Reach-3	439.66*	100	14.11	164.68	165.35		165.37	0.001571	0.75	24.78	57.70	0.35
Reach-3	439.66*	50	12.68	164.68	165.26		165.29	0.002411	0.81	19.96	55.86	0.42
Reach-3	439.49*	Check	18.34	164.67	165.60		165.61	0.000550	0.60	42.32	64.44	0.22
Reach-3	439.49*	Regional	21.51	164.67	165.77		165.78	0.000361	0.56	54.05	67.37	0.19
Reach-3	439.49*	100	14.11	164.67	165.34		165.36	0.001297	0.70	26.76	59.25	0.32
Reach-3	439.49*	50	12.68	164.67	165.26		165.28	0.001996	0.76	21.62	57.89	0.38
Reach-3	439.33*	Check	18.34	164.65	165.59		165.60	0.000467	0.56	45.04	65.63	0.21
Reach-3	439.33*	Regional	21.51	164.65	165.77		165.78	0.000313	0.53	57.03	68.43	0.17
Reach-3	439.33*	100	14.11	164.65	165.34		165.35	0.001062	0.65	28.98	61.21	0.29
Reach-3	439.33*	50	12.68	164.65	165.25		165.27	0.001623	0.70	23.53	59.97	0.35
Reach-3	439.17*	Check	18.34	164.64	165.59		165.60	0.000395	0.53	48.00	67.05	0.19
Reach-3	439.17*	Regional	21.51	164.64	165.77		165.78	0.000272	0.50	60.27	70.00	0.16
Reach-3	439.17*	100	14.11	164.64	165.34		165.35	0.000868	0.60	31.39	63.25	0.26
Reach-3	439.17*	50	12.68	164.64	165.25		165.26	0.001311	0.65	25.65	62.10	0.31
Reach-3	439	Check	18.34	164.63	165.59		165.60	0.000335	0.49	51.16	68.65	0.18
Reach-3	439	Regional	21.51	164.63	165.77		165.78	0.000236	0.47	63.72	71.59	0.15
Reach-3	439	100	14.11	164.63	165.34		165.35	0.000710	0.55	33.97	65.38	0.24
Reach-3	439	50	12.68	164.63	165.24		165.26	0.001058	0.59	27.94	64.40	0.28
Reach-3	438	Check	18.34	164.04	165.59	164.40	165.60	0.000079	0.37	77.63	60.15	0.10
Reach-3	438	Regional	21.51	164.04	165.77	164.43	165.78	0.000072	0.38	88.51	61.47	0.09
Reach-3	438	100	14.11	164.04	165.34	164.33	165.34	0.000091	0.35	62.48	58.29	0.10
Reach-3	438	50	12.68	164.04	165.25	164.33	165.25	0.000097	0.34	57.14	57.46	0.10
Reach-3	436.98		Culvert									
Reach-3	436	Check	18.34	163.71	164.33	164.33	164.45	0.019632	2.12	13.48	52.88	1.14
Reach-3	436	Regional	21.51	163.71	164.76		164.77	0.001129	0.72	37.01	58.66	0.30
Reach-3	436	100	14.11	163.71	164.29	164.29	164.40	0.021192	2.04	11.12	52.32	1.16
Reach-3	436	50	12.68	163.71	164.28	164.28	164.38	0.021061	1.98	10.40	52.21	1.15
Reach-3	435	Check	18.34	162.95	164.28	163.73	164.30	0.000632	0.78	33.11	41.46	0.25
Reach-3	435	Regional	21.51	162.95	164.75		164.76	0.000201	0.57	53.29	43.63	0.15
Reach-3	435	100	14.11	162.95	164.05	163.68	164.07	0.001057	0.84	23.59	40.32	0.31
Reach-3	435	50	12.68	162.95	163.99	163.66	164.02	0.001134	0.83	21.47	40.06	0.32

HEC-RAS Plan: Prop River: RIVER-2 Reach: Reach-3 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach-3	434	Check	18.59	162.78	164.14	163.84	164.26	0.003253	1.67	13.97	22.57	0.55
Reach-3	434	Regional	21.79	162.78	164.72	163.91	164.75	0.000557	0.95	33.61	37.50	0.25
Reach-3	434	100	14.30	162.78	163.80	163.73	164.00	0.009333	2.08	7.46	13.67	0.87
Reach-3	434	50	12.85	162.78	163.69	163.69	163.94	0.014018	2.29	6.07	12.57	1.04
Reach-3	433.5		Culvert									
Reach-3	433	Check	18.59	161.86	163.37		163.41	0.000714	0.98	27.73	36.69	0.28
Reach-3	433	Regional	21.79	161.86	164.04		164.06	0.000152	0.60	53.15	38.97	0.14
Reach-3	433	100	14.30	161.86	163.24		163.27	0.000716	0.91	22.76	36.12	0.27
Reach-3	433	50	12.85	161.86	163.18		163.22	0.000726	0.89	20.83	35.95	0.27
Reach-3	432	Check	18.59	161.82	163.24		163.37	0.002561	1.64	12.50	15.48	0.51
Reach-3	432	Regional	21.79	161.82	164.00		164.05	0.000474	1.01	26.56	20.99	0.24
Reach-3	432	100	14.30	161.82	163.14		163.23	0.002178	1.42	10.95	14.75	0.46
Reach-3	432	50	12.85	161.82	163.09		163.18	0.002069	1.34	10.32	14.45	0.44
Reach-3	431	Check	22.10	161.81	163.12		163.29	0.008666	2.05	14.19	26.49	0.72
Reach-3	431	Regional	31.00	161.81	164.00		164.03	0.000868	1.05	43.81	40.00	0.26
Reach-3	431	100	17.00	161.81	162.91	162.91	163.14	0.015388	2.25	8.98	24.52	0.91
Reach-3	431	50	15.00	161.81	162.83	162.83	163.08	0.020087	2.34	7.07	18.85	1.01
Reach-3	430	Check	22.10	161.34	162.92		163.15	0.005723	2.14	11.20	13.02	0.61
Reach-3	430	Regional	31.00	161.34	163.93		164.01	0.001115	1.40	29.94	25.86	0.30
Reach-3	430	100	17.00	161.34	162.68	162.44	162.90	0.007245	2.08	8.42	10.02	0.66
Reach-3	430	50	15.00	161.34	162.58	162.38	162.79	0.007916	2.03	7.49	9.30	0.68
Reach-3	429	Check	22.10	161.00	162.71	162.44	163.02	0.007400	2.46	8.97	15.93	0.69
Reach-3	429	Regional	31.00	161.00	163.78	162.69	163.96	0.001939	1.89	16.43	36.40	0.39
Reach-3	429	100	17.00	161.00	162.49	162.27	162.76	0.008244	2.29	7.42	11.42	0.71
Reach-3	429	50	15.00	161.00	162.39	162.21	162.64	0.008955	2.23	6.72	10.72	0.73
Reach-3	428		Culvert									
Reach-3	426	Check	22.10	161.00	162.01	162.01	162.51	0.015463	3.13	7.07	19.13	0.99
Reach-3	426	Regional	31.00	161.00	162.26	162.26	162.89	0.014536	3.52	8.82	22.63	1.00
Reach-3	426	100	17.00	161.00	161.84	161.84	162.27	0.016632	2.88	5.91	17.44	1.00
Reach-3	426	50	15.00	161.00	161.78	161.78	162.16	0.016855	2.75	5.46	16.79	0.99
Reach-3	425	Check	22.10	160.59	161.52	161.66	162.04	0.049606	3.61	14.93	81.31	1.58
Reach-3	425	Regional	31.00	160.59	161.79	161.75	161.95	0.012166	2.36	37.25	82.98	0.84
Reach-3	425	100	17.00	160.59	161.64	161.61	161.76	0.010152	1.87	24.81	82.05	0.74
Reach-3	425	50	15.00	160.59	161.61	161.58	161.73	0.010106	1.81	22.29	81.86	0.73
Reach-3	420	Check	22.10	160.30	161.42	161.16	161.45	0.003991	1.34	48.78	87.51	0.48
Reach-3	420	Regional	31.00	160.30	161.44		161.51	0.006870	1.80	51.00	87.67	0.63
Reach-3	420	100	17.00	160.30	161.19		161.26	0.010686	1.75	29.02	86.07	0.74
Reach-3	420	50	15.00	160.30	161.16		161.23	0.010657	1.69	26.53	85.89	0.74
Reach-3	417	Check	22.10	159.80	161.35		161.36	0.001203	1.01	74.18	84.73	0.28
Reach-3	417	Regional	31.00	159.80	161.29		161.32	0.002973	1.54	68.82	84.36	0.43
Reach-3	417	100	17.00	159.80	160.93		160.97	0.004857	1.58	38.75	82.29	0.53
Reach-3	417	50	15.00	159.80	160.86		160.91	0.005801	1.64	33.25	81.90	0.57
Reach-3	415	Check	22.10	159.37	161.32		161.34	0.000680	0.83	69.07	70.02	0.22
Reach-3	415	Regional	31.00	159.37	161.22		161.27	0.001825	1.30	61.81	69.37	0.35
Reach-3	415	100	17.00	159.37	160.86		160.90	0.002115	1.14	37.22	67.11	0.36
Reach-3	415	50	15.00	159.37	160.79		160.84	0.002302	1.13	32.49	66.67	0.37

HEC-RAS Plan: Prop River: Trib407 Reach: 1

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
1	629	Check	5.82	166.45	166.91	166.69	166.93	0.002232	0.58	9.97	26.82	0.37
1	629	Regional	6.34	166.45	166.93	166.70	166.95	0.002226	0.60	10.54	27.09	0.37
1	629	100	4.47	166.45	166.86	166.65	166.87	0.002177	0.52	8.51	26.15	0.35
1	629	50	4.03	166.45	166.84	166.63	166.85	0.002143	0.49	8.01	25.92	0.35
1	628.5*	Check	5.82	166.40	166.87		166.90	0.003877	0.72	8.01	23.54	0.48
1	628.5*	Regional	6.34	166.40	166.89		166.92	0.003824	0.74	8.50	23.92	0.48
1	628.5*	100	4.47	166.40	166.82		166.84	0.003639	0.70	6.81	21.83	0.47
1	628.5*	50	4.03	166.40	166.80		166.82	0.003571	0.67	6.42	21.68	0.46
1	628	Check	5.82	166.34	166.79		166.84	0.009122	1.14	5.75	19.72	0.75
1	628	Regional	6.34	166.34	166.81		166.87	0.008398	1.15	6.22	19.87	0.72
1	628	100	4.47	166.34	166.74		166.79	0.009441	1.03	4.84	19.46	0.74
1	628	50	4.03	166.34	166.73		166.77	0.009512	0.99	4.53	19.38	0.73
1	627.67*	Check	5.82	166.24	166.73		166.77	0.006744	1.08	6.48	21.53	0.66
1	627.67*	Regional	6.34	166.24	166.76		166.80	0.005705	1.04	7.22	21.90	0.61
1	627.67*	100	4.47	166.24	166.67		166.71	0.007478	1.02	5.32	21.11	0.67
1	627.67*	50	4.03	166.24	166.65		166.69	0.007750	1.00	4.93	20.96	0.68
1	627.34*	Check	5.82	166.14	166.69		166.72	0.003958	0.87	7.98	24.88	0.51
1	627.34*	Regional	6.34	166.14	166.74		166.76	0.003177	0.82	9.05	25.35	0.46
1	627.34*	100	4.47	166.14	166.63		166.66	0.004511	0.85	6.46	24.08	0.53
1	627.34*	50	4.03	166.14	166.61		166.64	0.004656	0.85	5.96	23.64	0.54
1	627	Check	5.82	166.04	166.60		166.67	0.007509	1.24	5.19	16.34	0.71
1	627	Regional	6.34	166.04	166.67		166.72	0.004828	1.13	6.30	17.91	0.59
1	627	100	4.47	166.04	166.53		166.60	0.009932	1.22	4.04	15.57	0.78
1	627	50	4.03	166.04	166.51		166.57	0.010191	1.19	3.72	15.16	0.79
1	626.67*	Check	5.82	165.86	166.59		166.63	0.002836	0.97	7.66	26.80	0.46
1	626.67*	Regional	6.34	165.86	166.66		166.69	0.001746	0.85	9.76	26.80	0.37
1	626.67*	100	4.47	165.86	166.39	166.38	166.49	0.014116	1.49	3.42	15.97	0.94
1	626.67*	50	4.03	165.86	166.38	166.36	166.47	0.013442	1.41	3.24	15.62	0.91
1	626.33*	Check	5.82	165.68	166.57		166.61	0.001596	0.88	7.52	14.85	0.36
1	626.33*	Regional	6.34	165.68	166.65		166.68	0.001217	0.83	8.68	14.85	0.32
1	626.33*	100	4.47	165.68	166.35		166.41	0.005391	1.17	4.17	14.85	0.62
1	626.33*	50	4.03	165.68	166.25	166.24	166.36	0.012395	1.46	2.84	12.30	0.89
1	626	Check	5.82	165.67	166.59	166.21	166.59	0.000415	0.47	16.31	29.19	0.19
1	626	Regional	6.34	165.67	166.66	166.22	166.67	0.000326	0.45	18.55	29.19	0.17
1	626	100	4.47	165.67	166.37	166.18	166.39	0.001130	0.60	10.06	29.19	0.29
1	626	50	4.03	165.67	166.29	166.17	166.31	0.002048	0.71	7.76	29.19	0.38
1	625.66	Culvert										
1	625	Check	5.82	165.06	165.62	165.93	166.80	0.096641	5.13	1.36	4.57	2.57
1	625	Regional	6.34	165.06	165.65	165.96	166.79	0.083988	5.05	1.53	4.75	2.43
1	625	100	4.47	165.06	165.52	165.84	166.89	0.153511	5.41	0.95	4.07	3.10
1	625	50	4.03	165.06	165.81	165.81	166.01	0.010369	2.18	2.45	6.37	0.90
1	624.67*	Check	5.82	165.01	165.58	165.75	166.14	0.040699	3.44	1.91	6.14	1.71
1	624.67*	Regional	6.34	165.01	165.60	165.76	166.19	0.039121	3.51	2.06	6.35	1.69
1	624.67*	100	4.47	165.01	165.51	165.68	166.02	0.046892	3.26	1.49	5.45	1.78
1	624.67*	50	4.03	165.01	165.54	165.66	165.88	0.026099	2.61	1.71	5.89	1.35
1	624.34*	Check	5.82	164.96	165.53	165.60	165.84	0.021325	2.52	2.55	8.07	1.25
1	624.34*	Regional	6.34	164.96	165.55	165.64	165.88	0.022380	2.64	2.66	8.14	1.28
1	624.34*	100	4.47	164.96	165.49	165.54	165.72	0.018264	2.17	2.22	7.29	1.13
1	624.34*	50	4.03	164.96	165.48	165.50	165.68	0.015636	1.99	2.18	7.25	1.05
1	624	Check	5.82	164.91	165.45	165.48	165.67	0.016256	2.11	2.98	8.98	1.08
1	624	Regional	6.34	164.91	165.47	165.50	165.70	0.016759	2.20	3.12	8.98	1.10
1	624	100	4.47	164.91	165.39	165.39	165.57	0.017011	1.94	2.45	8.33	1.07
1	624	50	4.03	164.91	165.37	165.39	165.54	0.017376	1.88	2.27	8.24	1.07
1	623.75*	Check	5.82	164.68	165.30	165.34	165.54	0.015924	2.28	2.96	8.93	1.08
1	623.75*	Regional	6.34	164.68	165.40	165.36	165.57	0.008724	1.93	3.91	9.98	0.83
1	623.75*	100	4.47	164.68	165.24	165.28	165.45	0.015666	2.07	2.46	8.66	1.05
1	623.75*	50	4.03	164.68	165.22	165.25	165.41	0.015715	2.00	2.28	8.53	1.04
1	623.5*	Check	5.82	164.45	165.31	165.19	165.40	0.004598	1.47	4.77	11.31	0.61
1	623.5*	Regional	6.34	164.45	165.44		165.51	0.002507	1.24	6.30	11.81	0.46
1	623.5*	100	4.47	164.45	165.06	165.12	165.30	0.020495	2.22	2.17	8.81	1.18
1	623.5*	50	4.03	164.45	165.03	165.10	165.27	0.020646	2.15	1.97	8.67	1.18

HEC-RAS Plan: Prop River: Trib407 Reach: 1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
1	623.3*	Check	5.82	164.22	165.29		165.37	0.002682	1.48	5.39	9.14	0.50
1	623.3*	Regional	6.34	164.22	165.42		165.49	0.001803	1.33	6.64	9.55	0.42
1	623.3*	100	4.47	164.22	164.94	164.98	165.18	0.011870	2.27	2.44	7.84	0.96
1	623.3*	50	4.03	164.22	164.89	164.96	165.14	0.013542	2.28	2.09	6.42	1.01
1	623	Check	5.82	163.99	165.30		165.35	0.001256	1.03	6.56	8.62	0.34
1	623	Regional	6.34	163.99	165.43		165.47	0.000942	0.97	7.70	8.99	0.30
1	623	100	4.47	163.99	164.99	164.76	165.06	0.003173	1.26	4.01	7.70	0.50
1	623	50	4.03	163.99	164.89	164.73	164.98	0.004304	1.37	3.29	7.43	0.58
1	622.67*	Check	6.21	163.91	165.30		165.34	0.000773	0.90	8.78	13.10	0.28
1	622.67*	Regional	6.77	163.91	165.43		165.46	0.000581	0.84	10.54	13.51	0.24
1	622.67*	100	4.78	163.91	164.98		165.03	0.001722	1.06	5.36	9.79	0.39
1	622.67*	50	4.30	163.91	164.88		164.94	0.002361	1.13	4.42	9.44	0.44
1	622.33*	Check	6.21	163.82	165.32		165.32	0.000172	0.45	23.07	39.16	0.13
1	622.33*	Regional	6.77	163.82	165.45		165.45	0.000118	0.40	28.12	39.16	0.11
1	622.33*	100	4.78	163.82	165.00		165.01	0.000556	0.65	11.14	31.22	0.23
1	622.33*	50	4.30	163.82	164.90		164.92	0.000852	0.74	8.06	29.02	0.27
1	622	Check	6.21	163.74	165.32	164.43	165.32	0.000098	0.33	28.41	41.95	0.10
1	622	Regional	6.77	163.74	165.45	164.45	165.45	0.000070	0.30	33.81	41.95	0.09
1	622	100	4.78	163.74	165.00	164.37	165.01	0.000243	0.42	15.74	36.66	0.15
1	622	50	4.30	163.74	164.90	164.35	164.91	0.000311	0.43	12.55	28.66	0.16
1	621.49	Culvert										
1	621	Check	6.21	162.42	163.13	163.13	163.30	0.011079	1.89	3.73	12.48	0.91
1	621	Regional	6.77	162.42	163.16	163.16	163.33	0.010786	1.93	4.03	12.78	0.90
1	621	100	4.78	162.42	163.06	163.06	163.22	0.012772	1.80	2.87	10.88	0.94
1	621	50	4.30	162.42	163.04	163.04	163.19	0.012425	1.73	2.64	10.11	0.93
1	620	Check	6.21	162.23	162.64	162.77	163.13	0.088231	3.12	2.07	16.05	2.36
1	620	Regional	6.77	162.23	162.65	162.79	163.16	0.085862	3.19	2.24	16.30	2.35
1	620	100	4.78	162.23	162.61	162.72	163.03	0.095092	2.89	1.66	11.02	2.38
1	620	50	4.30	162.23	162.59	162.71	163.01	0.089597	2.85	1.51	9.82	2.32
1	600	Check	6.21	161.97	162.50	162.50	162.63	0.010975	1.92	5.34	20.08	0.96
1	600	Regional	6.77	161.97	162.52	162.52	162.65	0.010915	1.97	5.70	20.47	0.96
1	600	100	4.78	161.97	162.46	162.46	162.57	0.010150	1.73	4.54	19.76	0.91
1	600	50	4.30	161.97	162.45	162.45	162.55	0.010106	1.67	4.20	19.65	0.90
1	560	Check	6.21	161.53	162.02	161.86	162.06	0.003693	1.18	9.13	25.63	0.56
1	560	Regional	6.77	161.53	162.04	161.87	162.08	0.003679	1.22	9.68	25.84	0.57
1	560	100	4.78	161.53	161.96	161.82	161.99	0.003840	1.09	7.56	24.88	0.56
1	560	50	4.30	161.53	161.94	161.81	161.97	0.003894	1.05	7.01	24.62	0.56
1	550	Check	6.21	161.39	161.80	161.80	161.94	0.032540	1.94	5.20	17.54	1.16
1	550	Regional	6.77	161.39	161.82	161.82	161.97	0.031428	1.96	5.57	17.75	1.15
1	550	100	4.78	161.39	161.76	161.76	161.88	0.031637	1.78	4.42	17.05	1.13
1	550	50	4.30	161.39	161.74	161.74	161.85	0.031546	1.72	4.12	16.86	1.12
1	525	Check	6.21	160.43	161.43	161.19	161.45	0.001866	0.89	20.78	56.11	0.32
1	525	Regional	6.77	160.43	161.37	161.21	161.41	0.003242	1.11	17.57	52.33	0.42
1	525	100	4.78	160.43	161.27	161.14	161.31	0.003349	1.02	12.61	45.87	0.42
1	525	50	4.30	160.43	161.29	161.13	161.31	0.002403	0.88	13.33	46.87	0.35
1	500	Check	6.21	160.30	161.41		161.42	0.001088	0.62	26.91	61.96	0.24
1	500	Regional	6.77	160.30	161.31		161.34	0.002361	0.87	21.32	61.27	0.35
1	500	100	4.78	160.30	161.09	161.09	161.17	0.008948	1.40	7.56	59.57	0.65
1	500	50	4.30	160.30	160.95	160.95	161.16	0.023687	1.99	2.16	5.59	1.03

HEC-RAS Plan: Prop River: West Sheldon Cre Reach: Barkin

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Barkin	3216.1	Check	11.90	163.91	164.58	164.58	164.74	0.012206	1.97	8.03	27.27	0.96
Barkin	3216.1	Regional	10.08	163.91	164.55	164.55	164.69	0.012548	1.88	7.03	25.81	0.96
Barkin	3216.1	100-year	9.16	163.91	164.52	164.52	164.66	0.012941	1.84	6.48	25.02	0.96
Barkin	3216.1	50-year	8.24	163.91	164.51	164.51	164.64	0.012635	1.76	6.05	24.39	0.94
Barkin	3215.9*	Check	11.90	163.78	164.42	164.45	164.61	0.015952	2.19	7.17	26.28	1.09
Barkin	3215.9*	Regional	10.08	163.78	164.39	164.42	164.57	0.015829	2.07	6.35	25.42	1.07
Barkin	3215.9*	100-year	9.16	163.78	164.37	164.40	164.54	0.015649	2.00	5.93	24.67	1.05
Barkin	3215.9*	50-year	8.24	163.78	164.35	164.38	164.51	0.015830	1.93	5.45	24.04	1.05
Barkin	3215.7*	Check	11.90	163.65	164.27	164.31	164.47	0.016512	2.22	7.09	26.27	1.10
Barkin	3215.7*	Regional	10.08	163.65	164.24	164.27	164.42	0.016582	2.11	6.25	25.31	1.09
Barkin	3215.7*	100-year	9.16	163.65	164.22	164.26	164.40	0.016725	2.05	5.79	24.87	1.09
Barkin	3215.7*	50-year	8.24	163.65	164.20	164.23	164.37	0.016686	1.98	5.34	24.19	1.08
Barkin	3215.5*	Check	11.90	163.52	164.30	164.15	164.36	0.003658	1.33	12.42	30.53	0.55
Barkin	3215.5*	Regional	10.08	163.52	164.06	164.10	164.26	0.020381	2.22	5.83	23.45	1.19
Barkin	3215.5*	100-year	9.16	163.52	164.04	164.08	164.24	0.020872	2.16	5.38	22.68	1.20
Barkin	3215.5*	50-year	8.24	163.52	164.02	164.06	164.21	0.021190	2.09	4.95	22.20	1.19
Barkin	3215.4*	Check	11.90	163.39	164.30		164.34	0.001325	0.93	17.84	32.95	0.35
Barkin	3215.4*	Regional	10.08	163.39	163.90	163.93	164.08	0.020506	2.16	6.02	23.83	1.19
Barkin	3215.4*	100-year	9.16	163.39	163.88	163.91	164.05	0.020025	2.07	5.67	23.47	1.17
Barkin	3215.4*	50-year	8.24	163.39	163.87	163.89	164.03	0.019633	1.98	5.30	22.94	1.15
Barkin	3215.2*	Check	11.90	163.26	164.31		164.32	0.000577	0.69	23.65	33.82	0.23
Barkin	3215.2*	Regional	10.08	163.26	163.83	163.75	163.91	0.007714	1.52	8.73	26.70	0.75
Barkin	3215.2*	100-year	9.16	163.26	163.71	163.73	163.87	0.021884	2.05	5.74	24.06	1.20
Barkin	3215.2*	50-year	8.24	163.26	163.69	163.72	163.84	0.022074	1.97	5.33	23.70	1.20
Barkin	3215.1	Check	11.90	162.13	164.32		164.32	0.000024	0.25	67.32	39.73	0.06
Barkin	3215.1	Regional	10.08	162.13	163.88		163.89	0.000041	0.28	50.57	37.61	0.07
Barkin	3215.1	100-year	9.16	162.13	163.70	162.55	163.70	0.000053	0.29	43.68	36.70	0.08
Barkin	3215.1	50-year	8.24	162.13	163.53	162.53	163.53	0.000069	0.30	37.41	35.83	0.09
Barkin	3214.9*	Check	11.90	161.52	164.32	162.01	164.32	0.000009	0.18	92.93	40.59	0.04
Barkin	3214.9*	Regional	10.08	161.52	163.88	161.97	163.89	0.000012	0.19	75.38	40.59	0.04
Barkin	3214.9*	100-year	9.16	161.52	163.70	161.96	163.70	0.000014	0.19	67.86	40.59	0.04
Barkin	3214.9*	50-year	8.24	161.52	163.53	161.94	163.53	0.000016	0.19	60.92	39.67	0.04
Barkin	3214.5		Culvert									
Barkin	3214.1	Check	11.90	161.21	164.09		164.09	0.000007	0.16	101.91	43.15	0.03
Barkin	3214.1	Regional	10.08	161.21	163.72		163.72	0.000009	0.16	85.76	43.15	0.03
Barkin	3214.1	100-year	9.16	161.21	163.55		163.55	0.000010	0.16	78.54	43.15	0.04
Barkin	3214.1	50-year	8.24	161.21	163.38		163.38	0.000010	0.16	71.43	42.89	0.04
Barkin	3213.9*	Check	11.90	161.21	164.09		164.09	0.000009	0.18	96.19	44.57	0.03
Barkin	3213.9*	Regional	10.08	161.21	163.72		163.72	0.000011	0.18	79.54	43.91	0.04
Barkin	3213.9*	100-year	9.16	161.21	163.55		163.55	0.000012	0.18	72.27	42.95	0.04
Barkin	3213.9*	50-year	8.24	161.21	163.38		163.38	0.000013	0.18	65.27	42.04	0.04
Barkin	3213.7*	Check	11.90	161.20	164.09		164.09	0.000010	0.19	90.17	45.13	0.04
Barkin	3213.7*	Regional	10.08	161.20	163.71		163.72	0.000014	0.20	73.68	43.06	0.04
Barkin	3213.7*	100-year	9.16	161.20	163.55		163.55	0.000015	0.20	66.53	42.19	0.04
Barkin	3213.7*	50-year	8.24	161.20	163.38		163.38	0.000017	0.20	59.66	41.27	0.05
Barkin	3213.5*	Check	11.90	161.20	164.09		164.09	0.000012	0.21	84.51	44.24	0.04
Barkin	3213.5*	Regional	10.08	161.20	163.71		163.72	0.000016	0.22	68.30	42.29	0.05
Barkin	3213.5*	100-year	9.16	161.20	163.55		163.55	0.000018	0.22	61.29	41.39	0.05
Barkin	3213.5*	50-year	8.24	161.20	163.38		163.38	0.000021	0.22	54.54	40.53	0.05
Barkin	3213.3*	Check	11.90	161.19	164.09		164.09	0.000014	0.23	79.37	43.53	0.04
Barkin	3213.3*	Regional	10.08	161.19	163.71		163.72	0.000019	0.24	63.44	41.54	0.05
Barkin	3213.3*	100-year	9.16	161.19	163.55		163.55	0.000022	0.24	56.55	40.68	0.05
Barkin	3213.3*	50-year	8.24	161.19	163.38		163.38	0.000026	0.25	49.91	39.85	0.06
Barkin	3213.1	Check	11.90	161.19	164.09	161.93	164.09	0.000016	0.24	74.73	42.79	0.05
Barkin	3213.1	Regional	10.08	161.19	163.71	161.88	163.72	0.000023	0.26	59.07	40.83	0.05
Barkin	3213.1	100-year	9.16	161.19	163.55	161.86	163.55	0.000026	0.26	52.30	39.92	0.06
Barkin	3213.1	50-year	8.24	161.19	163.38	161.83	163.38	0.000029	0.26	45.91	37.57	0.06
Barkin	3212.6		Culvert									
Barkin	3212.1	Check	11.90	161.24	162.87		162.90	0.000564	0.92	18.73	22.26	0.25
Barkin	3212.1	Regional	10.08	161.24	162.72		162.75	0.000650	0.92	15.53	20.37	0.26
Barkin	3212.1	100-year	9.16	161.24	162.65		162.68	0.000682	0.91	14.13	19.54	0.27

HEC-RAS Plan: Prop River: West Sheldon Cre Reach: Barkin (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Barkin	3212.1	50-year	8.24	161.24	162.56		162.60	0.000744	0.90	12.57	18.65	0.27
Barkin	3211.1	Check	12.91	160.70	162.40	162.40	162.84	0.013010	2.97	4.80	6.86	0.93
Barkin	3211.1	Regional	10.83	160.70	162.28	162.28	162.69	0.014557	2.88	3.98	5.98	0.96
Barkin	3211.1	100-year	9.93	160.70	162.22	162.22	162.62	0.015201	2.82	3.66	5.60	0.97
Barkin	3211.1	50-year	8.95	160.70	162.16	162.16	162.54	0.015641	2.73	3.35	5.20	0.98
Barkin	3205.1*	Check	12.91	160.60	161.63	161.95	162.64	0.066336	4.44	2.91	5.89	1.99
Barkin	3205.1*	Regional	10.83	160.60	161.57	161.85	162.48	0.066328	4.23	2.56	5.46	1.97
Barkin	3205.1*	100-year	9.93	160.60	161.54	161.80	162.41	0.066009	4.13	2.40	5.27	1.95
Barkin	3205.1*	50-year	8.95	160.60	161.51	161.76	162.33	0.065258	4.01	2.23	5.06	1.93
Barkin	3199.1	Check	12.91	160.50	161.35	161.61	162.18	0.065477	4.03	3.25	8.63	1.97
Barkin	3199.1	Regional	10.83	160.50	161.31	161.53	162.03	0.064658	3.75	2.91	8.17	1.92
Barkin	3199.1	100-year	9.93	160.50	161.30	161.50	161.96	0.063951	3.61	2.76	7.97	1.90
Barkin	3199.1	50-year	8.95	160.50	161.28	161.46	161.88	0.062152	3.43	2.61	7.76	1.85
Barkin	3185.1	Check	12.91	160.12	160.87	161.05	161.45	0.031729	3.77	5.90	17.62	1.46
Barkin	3185.1	Regional	10.83	160.12	160.83	160.99	161.34	0.029393	3.48	5.21	17.38	1.39
Barkin	3185.1	100-year	9.93	160.12	160.81	160.96	161.29	0.028400	3.35	4.88	17.27	1.36
Barkin	3185.1	50-year	8.95	160.12	160.79	160.93	161.24	0.027418	3.21	4.48	17.13	1.33
Barkin	3182.22	Check	12.91	159.49	160.66	160.89	161.35	0.028167	3.78	4.69	16.84	1.35
Barkin	3182.22	Regional	10.83	159.49	160.59	160.82	161.25	0.028907	3.61	3.58	14.67	1.34
Barkin	3182.22	100-year	9.93	159.49	160.55	160.78	161.19	0.030477	3.56	3.02	10.98	1.36
Barkin	3182.22	50-year	8.95	159.49	160.49	160.74	161.13	0.034425	3.55	2.52	4.67	1.43
Barkin	3179.72	Check	12.91	159.49	160.62	160.83	161.27	0.026947	3.72	4.94	16.95	1.32
Barkin	3179.72	Regional	10.83	159.49	160.56	160.76	161.16	0.026135	3.49	3.98	16.30	1.29
Barkin	3179.72	100-year	9.93	159.49	160.53	160.73	161.11	0.026315	3.40	3.48	14.57	1.28
Barkin	3179.72	50-year	8.95	159.49	160.77	160.69	160.93	0.005881	1.95	7.56	17.86	0.64
Barkin	3177.22	Check	12.91	159.49	160.89	160.78	161.06	0.005495	2.11	10.97	19.00	0.64
Barkin	3177.22	Regional	10.83	159.49	160.84	160.71	160.98	0.004834	1.92	9.97	18.68	0.59
Barkin	3177.22	100-year	9.93	159.49	160.81	160.67	160.95	0.004549	1.83	9.49	18.52	0.57
Barkin	3177.22	50-year	8.95	159.49	160.78		160.91	0.004206	1.73	8.96	18.35	0.55
Barkin	3174.72	Check	12.91	159.99	160.80	160.80	161.04	0.012535	2.63	9.21	18.84	0.95
Barkin	3174.72	Regional	10.83	159.99	160.74	160.74	160.96	0.012455	2.49	8.09	18.48	0.94
Barkin	3174.72	100-year	9.93	159.99	160.72	160.72	160.92	0.012143	2.40	7.64	18.33	0.92
Barkin	3174.72	50-year	8.95	159.99	160.69	160.69	160.88	0.012051	2.32	7.07	18.15	0.91
Barkin	3172.22	Check	12.91	159.23	160.47	160.63	160.98	0.019283	3.31	5.89	17.26	1.13
Barkin	3172.22	Regional	10.83	159.23	160.40	160.56	160.89	0.020139	3.19	4.64	16.82	1.14
Barkin	3172.22	100-year	9.93	159.23	160.36	160.52	160.85	0.021272	3.16	3.95	15.96	1.16
Barkin	3172.22	50-year	8.95	159.23	160.30	160.48	160.81	0.023952	3.17	3.09	11.57	1.21
Barkin	3169.72	Check	12.91	159.23	160.61	160.57	160.84	0.007750	2.39	9.35	18.45	0.74
Barkin	3169.72	Regional	10.83	159.23	160.56	160.50	160.75	0.006806	2.17	8.45	18.15	0.69
Barkin	3169.72	100-year	9.93	159.23	160.53	160.47	160.71	0.006409	2.07	8.02	18.01	0.67
Barkin	3169.72	50-year	8.95	159.23	160.51	160.43	160.67	0.005926	1.95	7.53	17.85	0.64
Barkin	3167.22	Check	12.91	159.23	160.63		160.80	0.005535	2.12	10.94	18.99	0.64
Barkin	3167.22	Regional	10.83	159.23	160.58		160.72	0.004864	1.92	9.94	18.67	0.59
Barkin	3167.22	100-year	9.93	159.23	160.55		160.69	0.004577	1.83	9.46	18.51	0.57
Barkin	3167.22	50-year	8.95	159.23	160.52		160.65	0.004231	1.73	8.93	18.34	0.55
Barkin	3164.72	Check	12.91	159.73	160.54	160.54	160.78	0.012529	2.63	9.21	18.84	0.95
Barkin	3164.72	Regional	10.83	159.73	160.48	160.48	160.70	0.012453	2.49	8.09	18.48	0.94
Barkin	3164.72	100-year	9.93	159.73	160.46	160.46	160.66	0.012132	2.40	7.64	18.34	0.92
Barkin	3164.72	50-year	8.95	159.73	160.43	160.43	160.62	0.012038	2.32	7.07	18.15	0.91
Barkin	3162.22	Check	12.91	158.97	160.21	160.37	160.72	0.019278	3.31	5.89	17.26	1.13
Barkin	3162.22	Regional	10.83	158.97	160.14	160.30	160.63	0.020139	3.19	4.64	16.82	1.14
Barkin	3162.22	100-year	9.93	158.97	160.10	160.26	160.59	0.021255	3.16	3.96	15.98	1.16
Barkin	3162.22	50-year	8.95	158.97	160.04	160.22	160.55	0.023918	3.17	3.09	11.64	1.21
Barkin	3159.72	Check	12.91	158.97	160.35	160.31	160.58	0.007667	2.38	9.40	18.47	0.74
Barkin	3159.72	Regional	10.83	158.97	160.30	160.24	160.49	0.006743	2.16	8.49	18.17	0.69
Barkin	3159.72	100-year	9.93	158.97	160.27	160.21	160.45	0.006356	2.06	8.05	18.02	0.66
Barkin	3159.72	50-year	8.95	158.97	160.25	160.17	160.41	0.005879	1.95	7.57	17.86	0.64
Barkin	3157.22	Check	12.91	158.97	160.37		160.54	0.005495	2.11	10.98	19.00	0.64
Barkin	3157.22	Regional	10.83	158.97	160.32		160.46	0.004833	1.92	9.97	18.68	0.59
Barkin	3157.22	100-year	9.93	158.97	160.29		160.43	0.004549	1.83	9.49	18.52	0.57
Barkin	3157.22	50-year	8.95	158.97	160.26		160.39	0.004207	1.73	8.96	18.35	0.55

HEC-RAS Plan: Prop River: West Sheldon Cre Reach: Barkin (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Barkin	3154.72	Check	12.91	159.47	160.28	160.28	160.52	0.012530	2.63	9.21	18.84	0.95
Barkin	3154.72	Regional	10.83	159.47	160.22	160.22	160.44	0.012469	2.49	8.08	18.48	0.94
Barkin	3154.72	100-year	9.93	159.47	160.20	160.20	160.40	0.012138	2.40	7.64	18.33	0.92
Barkin	3154.72	50-year	8.95	159.47	160.17	160.17	160.36	0.012038	2.32	7.07	18.15	0.91
Barkin	3152.22	Check	12.91	158.71	159.95	160.11	160.46	0.019284	3.31	5.89	17.26	1.13
Barkin	3152.22	Regional	10.83	158.71	159.88	160.04	160.37	0.020140	3.19	4.64	16.82	1.14
Barkin	3152.22	100-year	9.93	158.71	159.84	160.00	160.33	0.021258	3.16	3.96	15.98	1.16
Barkin	3152.22	50-year	8.95	158.71	159.78	159.96	160.29	0.023914	3.17	3.09	11.65	1.21
Barkin	3149.72	Check	12.91	158.71	160.09	160.05	160.32	0.007667	2.38	9.40	18.47	0.74
Barkin	3149.72	Regional	10.83	158.71	160.04	159.98	160.23	0.006745	2.16	8.49	18.17	0.69
Barkin	3149.72	100-year	9.93	158.71	160.01	159.95	160.19	0.006354	2.06	8.05	18.02	0.66
Barkin	3149.72	50-year	8.95	158.71	159.99	159.91	160.15	0.005878	1.95	7.57	17.86	0.64
Barkin	3147.22	Check	12.91	158.71	160.11		160.28	0.005495	2.11	10.98	19.00	0.64
Barkin	3147.22	Regional	10.83	158.71	160.06		160.20	0.004834	1.92	9.97	18.68	0.59
Barkin	3147.22	100-year	9.93	158.71	160.03		160.17	0.004549	1.83	9.49	18.52	0.57
Barkin	3147.22	50-year	8.95	158.71	160.00		160.13	0.004207	1.73	8.96	18.35	0.55
Barkin	3144.72	Check	12.91	159.21	160.02	160.02	160.26	0.012527	2.63	9.21	18.84	0.95
Barkin	3144.72	Regional	10.83	159.21	159.96	159.96	160.18	0.012453	2.49	8.09	18.48	0.94
Barkin	3144.72	100-year	9.93	159.21	159.94	159.94	160.14	0.012132	2.40	7.64	18.34	0.92
Barkin	3144.72	50-year	8.95	159.21	159.91	159.91	160.10	0.012039	2.32	7.07	18.15	0.91
Barkin	3142.22	Check	12.91	158.45	159.69	159.85	160.20	0.019297	3.31	5.89	17.26	1.13
Barkin	3142.22	Regional	10.83	158.45	159.62	159.78	160.11	0.020148	3.19	4.64	16.82	1.14
Barkin	3142.22	100-year	9.93	158.45	159.58	159.74	160.07	0.021283	3.16	3.95	15.95	1.16
Barkin	3142.22	50-year	8.95	158.45	159.52	159.70	160.03	0.023966	3.17	3.09	11.56	1.21
Barkin	3139.72	Check	12.91	158.45	159.83	159.79	160.06	0.007734	2.39	9.36	18.45	0.74
Barkin	3139.72	Regional	10.83	158.45	159.78	159.72	159.97	0.006799	2.17	8.46	18.16	0.69
Barkin	3139.72	100-year	9.93	158.45	159.75	159.69	159.93	0.006403	2.07	8.02	18.01	0.67
Barkin	3139.72	50-year	8.95	158.45	159.73	159.65	159.89	0.005924	1.95	7.53	17.85	0.64
Barkin	3137.22	Check	12.91	158.45	159.85	159.85	160.02	0.005505	2.11	10.97	19.00	0.64
Barkin	3137.22	Regional	10.83	158.45	159.80	159.80	159.94	0.004842	1.92	9.96	18.68	0.59
Barkin	3137.22	100-year	9.93	158.45	159.77	159.77	159.91	0.004556	1.83	9.48	18.52	0.57
Barkin	3137.22	50-year	8.95	158.45	159.74	159.74	159.86	0.004213	1.73	8.95	18.35	0.55
Barkin	3134.72	Check	12.91	158.95	159.76	159.76	160.00	0.012534	2.63	9.21	18.84	0.95
Barkin	3134.72	Regional	10.83	158.95	159.70	159.70	159.92	0.012468	2.49	8.08	18.48	0.94
Barkin	3134.72	100-year	9.93	158.95	159.68	159.68	159.88	0.012155	2.40	7.64	18.33	0.92
Barkin	3134.72	50-year	8.95	158.95	159.64	159.64	159.84	0.012046	2.32	7.07	18.15	0.91
Barkin	3132.22	Check	12.91	158.19	159.43	159.59	159.93	0.019277	3.31	5.90	17.26	1.13
Barkin	3132.22	Regional	10.83	158.19	159.36	159.52	159.85	0.020138	3.19	4.65	16.82	1.14
Barkin	3132.22	100-year	9.93	158.19	159.32	159.48	159.81	0.021249	3.16	3.96	16.00	1.16
Barkin	3132.22	50-year	8.95	158.19	159.26	159.44	159.77	0.023901	3.17	3.10	11.67	1.21
Barkin	3129.72	Check	12.91	158.19	159.57	159.53	159.80	0.007685	2.38	9.39	18.46	0.74
Barkin	3129.72	Regional	10.83	158.19	159.52	159.46	159.71	0.006759	2.16	8.49	18.17	0.69
Barkin	3129.72	100-year	9.93	158.19	159.49	159.43	159.67	0.006367	2.07	8.04	18.02	0.66
Barkin	3129.72	50-year	8.95	158.19	159.47	159.39	159.63	0.005888	1.95	7.56	17.86	0.64
Barkin	3127.22	Check	12.91	158.19	159.59	159.59	159.76	0.005504	2.11	10.97	19.00	0.64
Barkin	3127.22	Regional	10.83	158.19	159.54	159.54	159.68	0.004842	1.92	9.96	18.68	0.59
Barkin	3127.22	100-year	9.93	158.19	159.51	159.51	159.65	0.004556	1.83	9.48	18.52	0.57
Barkin	3127.22	50-year	8.95	158.19	159.48	159.48	159.60	0.004212	1.73	8.95	18.35	0.55
Barkin	3124.72	Check	12.91	158.69	159.50	159.50	159.74	0.012536	2.63	9.21	18.84	0.95
Barkin	3124.72	Regional	10.83	158.69	159.44	159.44	159.66	0.012452	2.49	8.09	18.48	0.94
Barkin	3124.72	100-year	9.93	158.69	159.42	159.42	159.62	0.012141	2.40	7.64	18.33	0.92
Barkin	3124.72	50-year	8.95	158.69	159.38	159.38	159.58	0.012053	2.32	7.07	18.15	0.91
Barkin	3122.22	Check	12.91	157.93	159.17	159.33	159.67	0.019278	3.31	5.90	17.26	1.13
Barkin	3122.22	Regional	10.83	157.93	159.10	159.26	159.59	0.020138	3.19	4.65	16.82	1.14
Barkin	3122.22	100-year	9.93	157.93	159.06	159.22	159.55	0.021250	3.16	3.96	16.00	1.16
Barkin	3122.22	50-year	8.95	157.93	159.00	159.18	159.51	0.023900	3.17	3.10	11.68	1.21
Barkin	3119.72	Check	12.91	157.93	159.31	159.27	159.54	0.007686	2.38	9.39	18.46	0.74
Barkin	3119.72	Regional	10.83	157.93	159.26	159.20	159.45	0.006758	2.16	8.49	18.17	0.69
Barkin	3119.72	100-year	9.93	157.93	159.23	159.17	159.41	0.006367	2.07	8.04	18.02	0.67
Barkin	3119.72	50-year	8.95	157.93	159.21	159.13	159.37	0.005890	1.95	7.56	17.86	0.64
Barkin	3117.22	Check	12.91	157.93	159.33	159.33	159.50	0.005505	2.11	10.97	19.00	0.64
Barkin	3117.22	Regional	10.83	157.93	159.28	159.28	159.42	0.004841	1.92	9.96	18.68	0.59

HEC-RAS Plan: Prop River: West Sheldon Cre Reach: Barkin (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Barkin	3117.22	100-year	9.93	157.93	159.25		159.39	0.004556	1.83	9.48	18.52	0.57
Barkin	3117.22	50-year	8.95	157.93	159.22		159.34	0.004213	1.73	8.95	18.35	0.55
Barkin	3114.72	Check	12.91	158.43	159.24	159.24	159.48	0.012538	2.63	9.21	18.84	0.95
Barkin	3114.72	Regional	10.83	158.43	159.18	159.18	159.40	0.012461	2.49	8.09	18.48	0.94
Barkin	3114.72	100-year	9.93	158.43	159.16	159.16	159.36	0.012142	2.40	7.64	18.34	0.92
Barkin	3114.72	50-year	8.95	158.43	159.12	159.12	159.32	0.012038	2.32	7.07	18.15	0.91
Barkin	3112.22	Check	12.91	157.66	158.91	159.07	159.41	0.019361	3.31	5.88	17.26	1.13
Barkin	3112.22	Regional	10.83	157.66	158.84	159.00	159.33	0.020194	3.19	4.64	16.82	1.14
Barkin	3112.22	100-year	9.93	157.66	158.80	158.96	159.29	0.021327	3.17	3.95	15.96	1.16
Barkin	3112.22	50-year	8.95	157.66	158.73	158.92	159.25	0.024009	3.18	3.08	11.57	1.21
Barkin	3109.72	Check	12.91	157.66	159.05	159.01	159.28	0.007678	2.38	9.40	18.46	0.74
Barkin	3109.72	Regional	10.83	157.66	159.00	158.94	159.19	0.006756	2.16	8.49	18.17	0.69
Barkin	3109.72	100-year	9.93	157.66	158.97	158.91	159.15	0.006363	2.07	8.05	18.02	0.66
Barkin	3109.72	50-year	8.95	157.66	158.95	158.87	159.11	0.005887	1.95	7.56	17.86	0.64
Barkin	3107.22	Check	12.91	157.66	159.07		159.24	0.005494	2.11	10.98	19.00	0.64
Barkin	3107.22	Regional	10.83	157.66	159.02		159.16	0.004834	1.92	9.97	18.68	0.59
Barkin	3107.22	100-year	9.93	157.66	158.99		159.12	0.004548	1.83	9.49	18.52	0.57
Barkin	3107.22	50-year	8.95	157.66	158.96		159.08	0.004206	1.73	8.96	18.35	0.55
Barkin	3104.72	Check	12.91	158.16	158.98	158.98	159.22	0.012534	2.63	9.21	18.84	0.95
Barkin	3104.72	Regional	10.83	158.16	158.92	158.92	159.14	0.012461	2.49	8.09	18.48	0.94
Barkin	3104.72	100-year	9.93	158.16	158.89	158.89	159.10	0.012148	2.40	7.64	18.33	0.92
Barkin	3104.72	50-year	8.95	158.16	158.86	158.86	159.06	0.012051	2.32	7.07	18.15	0.91
Barkin	3102.22	Check	12.91	157.40	158.65	158.81	159.15	0.019278	3.31	5.89	17.26	1.13
Barkin	3102.22	Regional	10.83	157.40	158.58	158.74	159.07	0.020133	3.19	4.65	16.82	1.14
Barkin	3102.22	100-year	9.93	157.40	158.54	158.70	159.03	0.021251	3.16	3.96	15.99	1.16
Barkin	3102.22	50-year	8.95	157.40	158.48	158.66	158.99	0.023908	3.17	3.09	11.65	1.21
Barkin	3099.72	Check	12.91	157.40	158.79	158.75	159.02	0.007683	2.38	9.39	18.46	0.74
Barkin	3099.72	Regional	10.83	157.40	158.74	158.68	158.93	0.006754	2.16	8.49	18.17	0.69
Barkin	3099.72	100-year	9.93	157.40	158.71	158.65	158.89	0.006364	2.07	8.05	18.02	0.66
Barkin	3099.72	50-year	8.95	157.40	158.69	158.61	158.85	0.005886	1.95	7.56	17.86	0.64
Barkin	3097.22	Check	12.91	157.40	158.81		158.98	0.005494	2.11	10.98	19.00	0.64
Barkin	3097.22	Regional	10.83	157.40	158.76		158.90	0.004832	1.92	9.97	18.68	0.59
Barkin	3097.22	100-year	9.93	157.40	158.73		158.86	0.004547	1.83	9.49	18.52	0.57
Barkin	3097.22	50-year	8.95	157.40	158.70		158.82	0.004205	1.73	8.96	18.35	0.55
Barkin	3094.72	Check	12.91	157.90	158.72	158.72	158.96	0.012533	2.63	9.21	18.84	0.95
Barkin	3094.72	Regional	10.83	157.90	158.66	158.66	158.88	0.012461	2.49	8.09	18.48	0.94
Barkin	3094.72	100-year	9.93	157.90	158.63	158.63	158.84	0.012148	2.40	7.64	18.33	0.92
Barkin	3094.72	50-year	8.95	157.90	158.60	158.60	158.80	0.012053	2.32	7.07	18.15	0.91
Barkin	3092.22	Check	12.91	157.14	158.39	158.55	158.89	0.019281	3.31	5.89	17.26	1.13
Barkin	3092.22	Regional	10.83	157.14	158.32	158.48	158.81	0.020137	3.19	4.64	16.82	1.14
Barkin	3092.22	100-year	9.93	157.14	158.28	158.44	158.77	0.021272	3.16	3.95	15.96	1.16
Barkin	3092.22	50-year	8.95	157.14	158.21	158.40	158.72	0.023955	3.17	3.09	11.57	1.21
Barkin	3089.72	Check	12.91	157.14	158.52	158.49	158.75	0.007792	2.39	9.33	18.44	0.74
Barkin	3089.72	Regional	10.83	157.14	158.47	158.42	158.67	0.006827	2.17	8.44	18.15	0.69
Barkin	3089.72	100-year	9.93	157.14	158.45	158.39	158.63	0.006419	2.07	8.01	18.01	0.67
Barkin	3089.72	50-year	8.95	157.14	158.42	158.35	158.59	0.005932	1.96	7.53	17.85	0.64
Barkin	3087.22	Check	12.91	157.14	158.55		158.72	0.005558	2.12	10.92	18.98	0.64
Barkin	3087.22	Regional	10.83	157.14	158.49		158.64	0.004878	1.92	9.93	18.66	0.59
Barkin	3087.22	100-year	9.93	157.14	158.47		158.60	0.004583	1.83	9.45	18.51	0.57
Barkin	3087.22	50-year	8.95	157.14	158.44		158.56	0.004236	1.73	8.92	18.34	0.55
Barkin	3084.72	Check	12.91	157.64	158.46	158.46	158.69	0.012531	2.63	9.21	18.84	0.95
Barkin	3084.72	Regional	10.83	157.64	158.40	158.40	158.62	0.012451	2.49	8.09	18.48	0.94
Barkin	3084.72	100-year	9.93	157.64	158.37	158.37	158.58	0.012139	2.40	7.64	18.33	0.92
Barkin	3084.72	50-year	8.95	157.64	158.34	158.34	158.54	0.012037	2.32	7.07	18.15	0.91
Barkin	3082.22	Check	12.91	156.88	158.36	158.29	158.56	0.006444	2.24	10.08	18.66	0.68
Barkin	3082.22	Regional	10.83	156.88	158.27	158.22	158.47	0.006753	2.16	8.41	18.12	0.68
Barkin	3082.22	100-year	9.93	156.88	158.02	158.18	158.51	0.021256	3.16	3.96	15.98	1.16
Barkin	3082.22	50-year	8.95	156.88	157.95	158.14	158.46	0.023913	3.17	3.09	11.64	1.21
Barkin	3079.72	Check	12.91	156.88	158.38		158.54	0.004743	2.01	11.59	19.16	0.59
Barkin	3079.72	Regional	10.83	156.88	158.29		158.44	0.004788	1.91	9.92	18.63	0.59
Barkin	3079.72	100-year	9.93	156.88	158.25	158.13	158.39	0.004882	1.88	9.10	18.37	0.59
Barkin	3079.72	50-year	8.95	156.88	158.20	158.09	158.34	0.004860	1.82	8.28	18.10	0.58

HEC-RAS Plan: Prop River: West Sheldon Cre Reach: Barkin (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Barkin	3077.22	Check	12.91	156.88	158.39		158.52	0.003682	1.83	12.97	19.62	0.53
Barkin	3077.22	Regional	10.83	156.88	158.30		158.42	0.003629	1.73	11.27	19.09	0.52
Barkin	3077.22	100-year	9.93	156.88	158.26		158.37	0.003648	1.69	10.45	18.83	0.52
Barkin	3077.22	50-year	8.95	156.88	158.22		158.32	0.003584	1.63	9.62	18.56	0.51
Barkin	3074.72	Check	12.91	157.38	158.38		158.50	0.005228	1.96	12.74	19.95	0.64
Barkin	3074.72	Regional	10.83	157.38	158.29		158.41	0.005571	1.89	10.95	19.40	0.65
Barkin	3074.72	100-year	9.93	157.38	158.24		158.36	0.005947	1.88	10.03	19.12	0.66
Barkin	3074.72	50-year	8.95	157.38	158.19		158.31	0.006321	1.86	9.08	18.81	0.68
Barkin	3064.658	Check	12.91	157.16	158.34		158.45	0.004126	1.85	13.40	20.02	0.57
Barkin	3064.658	Regional	10.83	157.16	158.25		158.36	0.004280	1.78	11.57	19.47	0.57
Barkin	3064.658	100-year	9.93	157.16	158.20		158.31	0.004533	1.76	10.59	19.16	0.59
Barkin	3064.658	50-year	8.95	157.16	158.15		158.25	0.004761	1.74	9.58	18.84	0.59
Barkin	3059.626	Check	12.91	156.86	158.33		158.43	0.003258	1.74	14.15	20.12	0.51
Barkin	3059.626	Regional	10.83	156.86	158.24		158.33	0.003261	1.65	12.32	19.57	0.50
Barkin	3059.626	100-year	9.93	156.86	158.19		158.28	0.003379	1.62	11.34	19.26	0.51
Barkin	3059.626	50-year	8.95	156.86	158.14		158.23	0.003450	1.59	10.34	18.95	0.51
Barkin	3054.595	Check	12.91	157.16	158.31		158.42	0.004013	1.82	13.68	20.14	0.57
Barkin	3054.595	Regional	10.83	157.16	158.21		158.32	0.004188	1.75	11.81	19.58	0.57
Barkin	3054.595	100-year	9.93	157.16	158.16		158.26	0.004523	1.75	10.74	19.25	0.59
Barkin	3054.595	50-year	8.95	157.16	158.10		158.21	0.004882	1.74	9.64	18.90	0.60
Barkin	3044.533	Check	12.91	157.06	158.28		158.38	0.003520	1.75	14.22	20.27	0.53
Barkin	3044.533	Regional	10.83	157.06	158.18		158.27	0.003631	1.68	12.31	19.69	0.53
Barkin	3044.533	100-year	9.93	157.06	158.12		158.22	0.003938	1.68	11.17	19.34	0.55
Barkin	3044.533	50-year	8.95	157.06	158.06		158.16	0.004280	1.67	9.99	18.97	0.57
Barkin	3039.501	Check	12.91	156.76	158.27		158.36	0.002798	1.65	15.01	20.37	0.47
Barkin	3039.501	Regional	10.83	156.76	158.17		158.26	0.002791	1.56	13.10	19.80	0.47
Barkin	3039.501	100-year	9.93	156.76	158.11		158.20	0.002960	1.55	11.96	19.45	0.48
Barkin	3039.501	50-year	8.95	156.76	158.05		158.14	0.003125	1.53	10.76	19.08	0.48
Barkin	3034.47	Check	12.91	157.06	158.25		158.34	0.003334	1.71	14.65	20.43	0.52
Barkin	3034.47	Regional	10.83	157.06	158.15		158.24	0.003435	1.63	12.72	19.85	0.52
Barkin	3034.47	100-year	9.93	157.06	158.09		158.18	0.003780	1.64	11.50	19.48	0.54
Barkin	3034.47	50-year	8.95	157.06	158.02		158.12	0.004181	1.65	10.23	19.09	0.56
Barkin	3024.408	Check	12.91	156.95	158.22		158.31	0.002873	1.64	15.34	20.60	0.48
Barkin	3024.408	Regional	10.83	156.95	158.13		158.21	0.002912	1.56	13.38	20.02	0.48
Barkin	3024.408	100-year	9.93	156.95	158.06		158.14	0.003202	1.56	12.09	19.63	0.50
Barkin	3024.408	50-year	8.95	156.95	157.99		158.08	0.003546	1.57	10.74	19.21	0.52
Barkin	3019.376	Check	12.91	156.65	158.22		158.29	0.002305	1.54	16.17	20.71	0.43
Barkin	3019.376	Regional	10.83	156.65	158.12		158.19	0.002267	1.45	14.21	20.14	0.42
Barkin	3019.376	100-year	9.93	156.65	158.05		158.13	0.002438	1.45	12.91	19.74	0.43
Barkin	3019.376	50-year	8.95	156.65	157.98		158.06	0.002623	1.44	11.55	19.33	0.45
Barkin	3014.345	Check	12.91	156.95	158.20		158.28	0.002669	1.59	15.91	20.79	0.47
Barkin	3014.345	Regional	10.83	156.95	158.11		158.18	0.002690	1.50	13.93	20.22	0.46
Barkin	3014.345	100-year	9.93	156.95	158.04		158.11	0.002973	1.51	12.58	19.81	0.48
Barkin	3014.345	50-year	8.95	156.95	157.97		158.04	0.003331	1.52	11.15	19.37	0.50
Barkin	3004.283	Check	12.91	156.84	158.18		158.25	0.002274	1.51	16.73	21.00	0.43
Barkin	3004.283	Regional	10.83	156.84	158.09		158.15	0.002250	1.42	14.74	20.42	0.43
Barkin	3004.283	100-year	9.93	156.84	158.02		158.09	0.002472	1.43	13.33	20.00	0.44
Barkin	3004.283	50-year	8.95	156.84	157.94		158.01	0.002752	1.44	11.83	19.55	0.46
Barkin	2999.251	Check	12.91	156.54	158.18		158.24	0.001846	1.43	17.60	21.12	0.39
Barkin	2999.251	Regional	10.83	156.54	158.08		158.14	0.001779	1.33	15.61	20.55	0.38
Barkin	2999.251	100-year	9.93	156.54	158.01		158.07	0.001914	1.33	14.19	20.13	0.39
Barkin	2999.251	50-year	8.95	156.54	157.94		158.00	0.002074	1.33	12.68	19.67	0.40
Barkin	2994.22	Check	12.91	156.84	158.17		158.23	0.002086	1.46	17.41	21.22	0.42
Barkin	2994.22	Regional	10.83	156.84	158.07		158.13	0.002046	1.37	15.41	20.65	0.41
Barkin	2994.22	100-year	9.93	156.84	158.00		158.06	0.002248	1.38	13.96	20.22	0.42
Barkin	2994.22	50-year	8.95	156.84	157.92		157.99	0.002507	1.38	12.41	19.76	0.44
Barkin	2984.158	Check	12.91	156.73	158.15		158.21	0.001772	1.39	18.35	21.46	0.39
Barkin	2984.158	Regional	10.83	156.73	158.06		158.11	0.001706	1.30	16.34	20.88	0.38
Barkin	2984.158	100-year	9.93	156.73	157.99		158.04	0.001857	1.30	14.84	20.45	0.39
Barkin	2984.158	50-year	8.95	156.73	157.91		157.96	0.002048	1.30	13.23	19.97	0.40
Barkin	2979.126	Check	12.91	156.43	158.15		158.20	0.001458	1.31	19.25	21.59	0.35

HEC-RAS Plan: Prop River: West Sheldon Cre Reach: Barkin (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Barkin	2979.126	Regional	10.83	156.43	158.05		158.10	0.001373	1.22	17.24	21.02	0.34
Barkin	2979.126	100-year	9.93	156.43	157.98		158.03	0.001465	1.21	15.73	20.58	0.34
Barkin	2979.126	50-year	8.95	156.43	157.90		157.95	0.001577	1.21	14.11	20.11	0.35
Barkin	2974.095	Check	12.91	156.73	158.14		158.19	0.001615	1.34	19.13	21.70	0.37
Barkin	2974.095	Regional	10.83	156.73	158.05		158.09	0.001541	1.24	17.11	21.14	0.36
Barkin	2974.095	100-year	9.93	156.73	157.97		158.02	0.001671	1.24	15.58	20.70	0.37
Barkin	2974.095	50-year	8.95	156.73	157.89		157.94	0.001837	1.24	13.93	20.22	0.38
Barkin	2964.033	Check	12.91	156.60	158.13		158.18	0.001350	1.27	20.22	21.96	0.34
Barkin	2964.033	Regional	10.83	156.60	158.04		158.08	0.001264	1.17	18.19	21.39	0.33
Barkin	2964.033	100-year	9.93	156.60	157.96		158.00	0.001354	1.17	16.63	20.95	0.33
Barkin	2964.033	50-year	8.95	156.60	157.88		157.92	0.001465	1.16	14.94	20.46	0.34
Barkin	2959.001	Check	12.91	156.30	158.13		158.17	0.001136	1.21	21.13	22.10	0.31
Barkin	2959.001	Regional	10.83	156.30	158.03		158.07	0.001045	1.11	19.10	21.54	0.30
Barkin	2959.001	100-year	9.93	156.30	157.96		158.00	0.001101	1.10	17.52	21.09	0.30
Barkin	2959.001	50-year	8.95	156.30	157.88		157.92	0.001168	1.09	15.82	20.60	0.31
Barkin	2953.970	Check	12.91	156.60	157.89	157.63	158.11	0.005287	2.25	7.49	20.82	0.66
Barkin	2953.970	Regional	10.83	156.60	157.86	157.54	158.02	0.004014	1.94	7.31	20.67	0.57
Barkin	2953.970	100-year	9.93	156.60	157.79	157.50	157.95	0.004179	1.90	6.82	20.27	0.58
Barkin	2953.970	50-year	8.95	156.60	157.72	157.46	157.87	0.004359	1.85	6.28	19.83	0.58
Barkin	2941		Bridge									
Barkin	2927.950	Check	12.91	156.46	157.49	157.49	157.88	0.012629	2.97	5.63	19.29	0.98
Barkin	2927.950	Regional	10.83	156.46	157.44	157.41	157.76	0.010827	2.65	5.27	19.00	0.90
Barkin	2927.950	100-year	9.93	156.46	157.42	157.36	157.70	0.010134	2.51	5.08	18.84	0.87
Barkin	2927.950	50-year	8.95	156.46	157.39	157.32	157.64	0.009399	2.36	4.86	18.66	0.83
Barkin	2917.935	Check	12.91	156.38	157.54	157.39	157.69	0.005126	2.04	12.04	19.89	0.64
Barkin	2917.935	Regional	10.83	156.38	157.46	157.27	157.60	0.005086	1.93	10.50	19.42	0.62
Barkin	2917.935	100-year	9.93	156.38	157.43	157.56	157.56	0.005064	1.87	9.80	19.21	0.62
Barkin	2917.935	50-year	8.95	156.38	157.38	157.51	157.51	0.005037	1.81	9.01	18.96	0.61
Barkin	2912.927	Check	12.91	156.08	157.53		157.66	0.003984	1.90	12.76	19.98	0.56
Barkin	2912.927	Regional	10.83	156.08	157.45		157.57	0.003801	1.77	11.25	19.52	0.54
Barkin	2912.927	100-year	9.93	156.08	157.42		157.53	0.003705	1.71	10.57	19.31	0.53
Barkin	2912.927	50-year	8.95	156.08	157.38		157.48	0.003586	1.64	9.81	19.07	0.52
Barkin	2907.919	Check	12.91	156.38	157.48		157.63	0.005493	2.07	11.86	19.88	0.66
Barkin	2907.919	Regional	10.83	156.38	157.41		157.54	0.005518	1.97	10.31	19.40	0.65
Barkin	2907.919	100-year	9.93	156.38	157.37		157.50	0.005532	1.92	9.61	19.19	0.65
Barkin	2907.919	50-year	8.95	156.38	157.33		157.46	0.005554	1.86	8.81	18.94	0.64
Barkin	2897.904	Check	12.91	156.28	157.43		157.58	0.005132	2.04	12.03	19.89	0.64
Barkin	2897.904	Regional	10.83	156.28	157.35		157.49	0.005092	1.93	10.49	19.42	0.62
Barkin	2897.904	100-year	9.93	156.28	157.32		157.45	0.005069	1.87	9.79	19.21	0.62
Barkin	2897.904	50-year	8.95	156.28	157.28		157.40	0.005043	1.81	9.00	18.96	0.61
Barkin	2892.897	Check	12.91	155.98	157.42		157.55	0.003971	1.89	12.78	19.99	0.56
Barkin	2892.897	Regional	10.83	155.98	157.35		157.46	0.003787	1.77	11.27	19.53	0.54
Barkin	2892.897	100-year	9.93	155.98	157.31		157.42	0.003691	1.71	10.59	19.32	0.53
Barkin	2892.897	50-year	8.95	155.98	157.27		157.37	0.003573	1.64	9.82	19.08	0.52
Barkin	2887.889	Check	12.91	156.28	157.38		157.53	0.005506	2.07	11.85	19.88	0.66
Barkin	2887.889	Regional	10.83	156.28	157.30		157.44	0.005532	1.97	10.30	19.40	0.65
Barkin	2887.889	100-year	9.93	156.28	157.26		157.40	0.005548	1.92	9.59	19.18	0.65
Barkin	2887.889	50-year	8.95	156.28	157.22		157.35	0.005570	1.87	8.80	18.93	0.64
Barkin	2877.874	Check	12.91	156.17	157.33		157.47	0.005128	2.04	12.03	19.89	0.64
Barkin	2877.874	Regional	10.83	156.17	157.25		157.38	0.005088	1.93	10.49	19.42	0.62
Barkin	2877.874	100-year	9.93	156.17	157.21		157.34	0.005067	1.87	9.80	19.21	0.62
Barkin	2877.874	50-year	8.95	156.17	157.17		157.30	0.005039	1.81	9.01	18.96	0.61
Barkin	2872.866	Check	12.91	155.87	157.32		157.45	0.003984	1.90	12.76	19.98	0.56
Barkin	2872.866	Regional	10.83	155.87	157.24		157.36	0.003801	1.77	11.25	19.52	0.54
Barkin	2872.866	100-year	9.93	155.87	157.20		157.32	0.003705	1.71	10.57	19.31	0.53
Barkin	2872.866	50-year	8.95	155.87	157.16		157.27	0.003587	1.64	9.81	19.07	0.52
Barkin	2867.858	Check	12.91	156.17	157.27		157.42	0.005494	2.07	11.86	19.88	0.66
Barkin	2867.858	Regional	10.83	156.17	157.19		157.33	0.005518	1.97	10.31	19.40	0.65
Barkin	2867.858	100-year	9.93	156.17	157.16		157.29	0.005534	1.92	9.61	19.19	0.65
Barkin	2867.858	50-year	8.95	156.17	157.11		157.24	0.005555	1.86	8.81	18.94	0.64
Barkin	2857.843	Check	12.91	156.06	157.22		157.37	0.005133	2.04	12.03	19.89	0.64

HEC-RAS Plan: Prop River: West Sheldon Cre Reach: Barkin (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Barkin	2857.843	Regional	10.83	156.06	157.14		157.28	0.005093	1.93	10.49	19.42	0.63
Barkin	2857.843	100-year	9.93	156.06	157.11		157.24	0.005071	1.88	9.79	19.20	0.62
Barkin	2857.843	50-year	8.95	156.06	157.06		157.19	0.005044	1.81	9.00	18.96	0.61
Barkin	2852.836	Check	12.91	155.76	157.21		157.34	0.003972	1.89	12.78	19.99	0.56
Barkin	2852.836	Regional	10.83	155.76	157.13		157.25	0.003789	1.77	11.27	19.53	0.54
Barkin	2852.836	100-year	9.93	155.76	157.10		157.21	0.003692	1.71	10.59	19.32	0.53
Barkin	2852.836	50-year	8.95	155.76	157.06		157.16	0.003573	1.64	9.82	19.08	0.52
Barkin	2847.828	Check	12.91	156.06	157.16		157.31	0.005507	2.07	11.85	19.87	0.66
Barkin	2847.828	Regional	10.83	156.06	157.09		157.22	0.005533	1.97	10.30	19.40	0.65
Barkin	2847.828	100-year	9.93	156.06	157.05		157.18	0.005550	1.92	9.59	19.18	0.65
Barkin	2847.828	50-year	8.95	156.06	157.01		157.14	0.005570	1.87	8.80	18.93	0.64
Barkin	2837.813	Check	12.91	155.96	157.11		157.26	0.005131	2.04	12.03	19.89	0.64
Barkin	2837.813	Regional	10.83	155.96	157.04		157.17	0.005091	1.93	10.49	19.42	0.62
Barkin	2837.813	100-year	9.93	155.96	157.00		157.13	0.005070	1.87	9.79	19.21	0.62
Barkin	2837.813	50-year	8.95	155.96	156.96		157.08	0.005040	1.81	9.01	18.96	0.61
Barkin	2832.805	Check	12.91	155.66	157.10		157.23	0.003990	1.90	12.75	19.98	0.56
Barkin	2832.805	Regional	10.83	155.66	157.03		157.14	0.003807	1.77	11.25	19.52	0.54
Barkin	2832.805	100-year	9.93	155.66	156.99		157.10	0.003713	1.71	10.56	19.31	0.53
Barkin	2832.805	50-year	8.95	155.66	156.95		157.06	0.003592	1.64	9.80	19.07	0.52
Barkin	2827.797	Check	12.91	155.96	157.06		157.21	0.005496	2.07	11.86	19.88	0.66
Barkin	2827.797	Regional	10.83	155.96	156.98		157.12	0.005522	1.97	10.31	19.40	0.65
Barkin	2827.797	100-year	9.93	155.96	156.94		157.08	0.005537	1.92	9.60	19.18	0.65
Barkin	2827.797	50-year	8.95	155.96	156.90		157.03	0.005556	1.86	8.81	18.93	0.64
Barkin	2817.782	Check	12.91	155.85	157.01		157.15	0.005135	2.04	12.02	19.89	0.64
Barkin	2817.782	Regional	10.83	155.85	156.93		157.06	0.005096	1.93	10.48	19.42	0.63
Barkin	2817.782	100-year	9.93	155.85	156.89		157.02	0.005075	1.88	9.79	19.20	0.62
Barkin	2817.782	50-year	8.95	155.85	156.85		156.98	0.005045	1.81	9.00	18.96	0.61
Barkin	2812.774	Check	12.91	155.55	157.00		157.13	0.003976	1.89	12.77	19.98	0.56
Barkin	2812.774	Regional	10.83	155.55	156.92		157.04	0.003793	1.77	11.26	19.53	0.54
Barkin	2812.774	100-year	9.93	155.55	156.88		157.00	0.003698	1.71	10.58	19.32	0.53
Barkin	2812.774	50-year	8.95	155.55	156.84		156.95	0.003577	1.64	9.82	19.08	0.52
Barkin	2807.767	Check	12.91	155.85	156.95		157.10	0.005513	2.08	11.84	19.87	0.66
Barkin	2807.767	Regional	10.83	155.85	156.87		157.01	0.005540	1.97	10.29	19.40	0.65
Barkin	2807.767	100-year	9.93	155.85	156.84		156.97	0.005555	1.92	9.59	19.18	0.65
Barkin	2807.767	50-year	8.95	155.85	156.79		156.92	0.005574	1.87	8.79	18.93	0.64
Barkin	2797.752	Check	12.91	155.74	156.90		157.05	0.005138	2.04	12.02	19.89	0.64
Barkin	2797.752	Regional	10.83	155.74	156.82		156.96	0.005098	1.93	10.49	19.42	0.63
Barkin	2797.752	100-year	9.93	155.74	156.79		156.92	0.005077	1.88	9.79	19.20	0.62
Barkin	2797.752	50-year	8.95	155.74	156.74		156.87	0.005048	1.81	9.00	18.96	0.61
Barkin	2792.744	Check	12.91	155.44	156.89		157.02	0.003996	1.90	12.75	19.98	0.56
Barkin	2792.744	Regional	10.83	155.44	156.81		156.93	0.003812	1.77	11.24	19.52	0.54
Barkin	2792.744	100-year	9.93	155.44	156.78		156.89	0.003717	1.71	10.56	19.31	0.53
Barkin	2792.744	50-year	8.95	155.44	156.74		156.84	0.003597	1.64	9.79	19.07	0.52
Barkin	2787.736	Check	12.91	155.74	156.84		156.99	0.005509	2.07	11.85	19.87	0.66
Barkin	2787.736	Regional	10.83	155.74	156.77		156.90	0.005535	1.97	10.30	19.40	0.65
Barkin	2787.736	100-year	9.93	155.74	156.73		156.86	0.005550	1.92	9.59	19.18	0.65
Barkin	2787.736	50-year	8.95	155.74	156.69		156.82	0.005571	1.87	8.80	18.93	0.64
Barkin	2777.721	Check	12.91	155.64	156.79		156.94	0.005154	2.04	12.01	19.89	0.64
Barkin	2777.721	Regional	10.83	155.64	156.71		156.85	0.005116	1.93	10.47	19.42	0.63
Barkin	2777.721	100-year	9.93	155.64	156.68		156.81	0.005093	1.88	9.77	19.20	0.62
Barkin	2777.721	50-year	8.95	155.64	156.64		156.76	0.005066	1.82	8.99	18.95	0.61
Barkin	2772.713	Check	12.91	155.34	156.78		156.91	0.003992	1.90	12.75	19.98	0.56
Barkin	2772.713	Regional	10.83	155.34	156.71		156.82	0.003809	1.77	11.24	19.52	0.54
Barkin	2772.713	100-year	9.93	155.34	156.67		156.78	0.003712	1.71	10.56	19.31	0.53
Barkin	2772.713	50-year	8.95	155.34	156.63		156.74	0.003593	1.64	9.80	19.07	0.52
Barkin	2767.706	Check	12.91	155.64	156.74		156.89	0.005546	2.08	11.82	19.86	0.66
Barkin	2767.706	Regional	10.83	155.64	156.66		156.80	0.005578	1.98	10.26	19.39	0.65
Barkin	2767.706	100-year	9.93	155.64	156.62		156.76	0.005596	1.93	9.56	19.17	0.65
Barkin	2767.706	50-year	8.95	155.64	156.58		156.71	0.005619	1.87	8.76	18.92	0.65
Barkin	2757.691	Check	12.91	155.53	156.69		156.83	0.005179	2.04	11.99	19.88	0.64
Barkin	2757.691	Regional	10.83	155.53	156.61		156.74	0.005148	1.93	10.44	19.41	0.63
Barkin	2757.691	100-year	9.93	155.53	156.57		156.70	0.005129	1.88	9.75	19.19	0.62

HEC-RAS Plan: Prop River: West Sheldon Cre Reach: Barkin (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Barkin	2757.691	50-year	8.95	155.53	156.53		156.65	0.005106	1.82	8.96	18.94	0.62
Barkin	2752.683	Check	12.91	155.23	156.67		156.80	0.004027	1.90	12.71	19.97	0.56
Barkin	2752.683	Regional	10.83	155.23	156.60		156.72	0.003848	1.78	11.20	19.51	0.54
Barkin	2752.683	100-year	9.93	155.23	156.56		156.67	0.003753	1.72	10.51	19.30	0.53
Barkin	2752.683	50-year	8.95	155.23	156.52		156.63	0.003635	1.65	9.75	19.06	0.52
Barkin	2747.675	Check	12.91	155.53	156.63		156.78	0.005583	2.08	11.79	19.86	0.66
Barkin	2747.675	Regional	10.83	155.53	156.55		156.69	0.005633	1.98	10.23	19.38	0.66
Barkin	2747.675	100-year	9.93	155.53	156.51		156.65	0.005662	1.93	9.52	19.16	0.65
Barkin	2747.675	50-year	8.95	155.53	156.47		156.60	0.005702	1.88	8.72	18.90	0.65
Barkin	2733	Check	12.91	155.37	156.55		156.70	0.005057	2.03	12.03	19.88	0.63
Barkin	2733	Regional	10.83	155.37	156.47		156.61	0.005016	1.92	10.48	19.40	0.62
Barkin	2733	100-year	9.93	155.37	156.44		156.57	0.004994	1.87	9.78	19.19	0.61
Barkin	2733	50-year	8.95	155.37	156.40		156.52	0.004967	1.81	8.99	18.94	0.61
Barkin	2727	Check	12.91	155.09	156.54		156.67	0.004013	1.90	12.72	19.97	0.56
Barkin	2727	Regional	10.83	155.09	156.46		156.58	0.003837	1.78	11.21	19.51	0.54
Barkin	2727	100-year	9.93	155.09	156.43		156.54	0.003745	1.72	10.52	19.30	0.53
Barkin	2727	50-year	8.95	155.09	156.39		156.49	0.003631	1.65	9.75	19.06	0.52
Barkin	2721	Check	12.91	155.37	156.49		156.64	0.005376	2.06	11.92	19.88	0.65
Barkin	2721	Regional	10.83	155.37	156.41		156.55	0.005380	1.96	10.37	19.41	0.64
Barkin	2721	100-year	9.93	155.37	156.38		156.51	0.005385	1.91	9.67	19.19	0.64
Barkin	2721	50-year	8.95	155.37	156.33		156.46	0.005390	1.85	8.87	18.94	0.63
Barkin	2713	Check	12.91	155.29	156.45		156.60	0.005100	2.03	12.05	19.90	0.63
Barkin	2713	Regional	10.83	155.29	156.37		156.51	0.005051	1.92	10.51	19.43	0.62
Barkin	2713	100-year	9.93	155.29	156.34		156.47	0.005025	1.87	9.82	19.21	0.62
Barkin	2713	50-year	8.95	155.29	156.30		156.42	0.004992	1.81	9.03	18.97	0.61
Barkin	2709	Check	12.91	155.00	156.44		156.57	0.003974	1.89	12.78	19.99	0.56
Barkin	2709	Regional	10.83	155.00	156.37		156.48	0.003791	1.77	11.27	19.53	0.54
Barkin	2709	100-year	9.93	155.00	156.33		156.44	0.003696	1.71	10.59	19.32	0.53
Barkin	2709	50-year	8.95	155.00	156.29		156.40	0.003577	1.64	9.82	19.08	0.52
Barkin	2705	Check	12.91	155.29	156.41		156.55	0.005402	2.06	11.90	19.88	0.65
Barkin	2705	Regional	10.83	155.29	156.33		156.46	0.005412	1.96	10.35	19.41	0.64
Barkin	2705	100-year	9.93	155.29	156.29		156.42	0.005418	1.91	9.64	19.19	0.64
Barkin	2705	50-year	8.95	155.29	156.25		156.38	0.005429	1.85	8.85	18.94	0.64
Barkin	2697.599	Check	12.91	155.21	156.37		156.51	0.005132	2.04	12.03	19.89	0.64
Barkin	2697.599	Regional	10.83	155.21	156.29		156.42	0.005091	1.93	10.49	19.42	0.62
Barkin	2697.599	100-year	9.93	155.21	156.25		156.38	0.005069	1.87	9.79	19.21	0.62
Barkin	2697.599	50-year	8.95	155.21	156.21		156.34	0.005042	1.81	9.00	18.96	0.61
Barkin	2692.591	Check	12.91	154.91	156.36		156.49	0.003973	1.89	12.78	19.99	0.56
Barkin	2692.591	Regional	10.83	154.91	156.28		156.40	0.003789	1.77	11.27	19.53	0.54
Barkin	2692.591	100-year	9.93	154.91	156.25		156.36	0.003693	1.71	10.59	19.32	0.53
Barkin	2692.591	50-year	8.95	154.91	156.21		156.31	0.003575	1.64	9.82	19.08	0.52
Barkin	2687.584	Check	12.91	155.21	156.31		156.46	0.005507	2.08	11.85	19.87	0.66
Barkin	2687.584	Regional	10.83	155.21	156.23		156.37	0.005532	1.97	10.30	19.40	0.65
Barkin	2687.584	100-year	9.93	155.21	156.20		156.33	0.005547	1.92	9.59	19.18	0.65
Barkin	2687.584	50-year	8.95	155.21	156.15		156.29	0.005568	1.87	8.80	18.93	0.64
Barkin	2677.568	Check	12.91	155.11	156.26		156.41	0.005133	2.04	12.03	19.89	0.64
Barkin	2677.568	Regional	10.83	155.11	156.18		156.32	0.005092	1.93	10.49	19.42	0.62
Barkin	2677.568	100-year	9.93	155.11	156.15		156.28	0.005069	1.87	9.79	19.21	0.62
Barkin	2677.568	50-year	8.95	155.11	156.11		156.23	0.005042	1.81	9.01	18.96	0.61
Barkin	2672.561	Check	12.91	154.80	156.25		156.38	0.003987	1.90	12.76	19.98	0.56
Barkin	2672.561	Regional	10.83	154.80	156.17		156.29	0.003803	1.77	11.25	19.52	0.54
Barkin	2672.561	100-year	9.93	154.80	156.14		156.25	0.003706	1.71	10.57	19.31	0.53
Barkin	2672.561	50-year	8.95	154.80	156.10		156.20	0.003587	1.64	9.81	19.07	0.52
Barkin	2667.553	Check	12.91	155.11	156.21		156.35	0.005501	2.07	11.86	19.88	0.66
Barkin	2667.553	Regional	10.83	155.11	156.13		156.27	0.005523	1.97	10.31	19.40	0.65
Barkin	2667.553	100-year	9.93	155.11	156.09		156.23	0.005538	1.92	9.60	19.18	0.65
Barkin	2667.553	50-year	8.95	155.11	156.05		156.18	0.005558	1.86	8.81	18.93	0.64
Barkin	2657.538	Check	12.91	155.00	156.15		156.30	0.005143	2.04	12.02	19.89	0.64
Barkin	2657.538	Regional	10.83	155.00	156.08		156.21	0.005099	1.93	10.48	19.42	0.63
Barkin	2657.538	100-year	9.93	155.00	156.04		156.17	0.005077	1.88	9.78	19.20	0.62
Barkin	2657.538	50-year	8.95	155.00	156.00		156.12	0.005049	1.82	9.00	18.96	0.61

HEC-RAS Plan: Prop River: West Sheldon Cre Reach: Barkin (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Barkin	2652.530	Check	12.91	154.70	156.14		156.27	0.003979	1.89	12.77	19.98	0.56
Barkin	2652.530	Regional	10.83	154.70	156.07		156.18	0.003792	1.77	11.26	19.53	0.54
Barkin	2652.530	100-year	9.93	154.70	156.03		156.14	0.003696	1.71	10.58	19.32	0.53
Barkin	2652.530	50-year	8.95	154.70	155.99		156.10	0.003576	1.64	9.82	19.08	0.52
Barkin	2647.523	Check	12.91	155.00	156.10		156.25	0.005526	2.08	11.83	19.87	0.66
Barkin	2647.523	Regional	10.83	155.00	156.02		156.16	0.005546	1.97	10.29	19.40	0.65
Barkin	2647.523	100-year	9.93	155.00	155.98		156.12	0.005563	1.92	9.58	19.18	0.65
Barkin	2647.523	50-year	8.95	155.00	155.94		156.07	0.005582	1.87	8.79	18.93	0.64
Barkin	2637.507	Check	12.91	154.89	156.05		156.19	0.005155	2.04	12.01	19.89	0.64
Barkin	2637.507	Regional	10.83	154.89	155.97		156.10	0.005107	1.93	10.48	19.42	0.63
Barkin	2637.507	100-year	9.93	154.89	155.93		156.06	0.005087	1.88	9.78	19.20	0.62
Barkin	2637.507	50-year	8.95	154.89	155.89		156.02	0.005057	1.82	9.00	18.96	0.61
Barkin	2632.500	Check	12.91	154.59	156.04		156.17	0.004006	1.90	12.73	19.97	0.56
Barkin	2632.500	Regional	10.83	154.59	155.96		156.08	0.003816	1.77	11.23	19.52	0.54
Barkin	2632.500	100-year	9.93	154.59	155.92		156.04	0.003721	1.71	10.55	19.31	0.53
Barkin	2632.500	50-year	8.95	154.59	155.89		155.99	0.003600	1.64	9.79	19.07	0.52
Barkin	2627.492	Check	12.91	154.89	155.99		156.14	0.005538	2.08	11.83	19.87	0.66
Barkin	2627.492	Regional	10.83	154.89	155.91		156.05	0.005552	1.97	10.29	19.40	0.65
Barkin	2627.492	100-year	9.93	154.89	155.88		156.01	0.005571	1.92	9.58	19.18	0.65
Barkin	2627.492	50-year	8.95	154.89	155.83		155.97	0.005589	1.87	8.79	18.93	0.64
Barkin	2617.477	Check	12.91	154.79	155.94		156.09	0.005192	2.05	11.97	19.88	0.64
Barkin	2617.477	Regional	10.83	154.79	155.86		156.00	0.005137	1.93	10.45	19.41	0.63
Barkin	2617.477	100-year	9.93	154.79	155.83		155.96	0.005121	1.88	9.75	19.19	0.62
Barkin	2617.477	50-year	8.95	154.79	155.78		155.91	0.005090	1.82	8.97	18.95	0.62
Barkin	2612.469	Check	12.91	154.49	155.93		156.06	0.004017	1.90	12.72	19.97	0.56
Barkin	2612.469	Regional	10.83	154.49	155.85		155.97	0.003821	1.77	11.23	19.52	0.54
Barkin	2612.469	100-year	9.93	154.49	155.82		155.93	0.003728	1.71	10.55	19.30	0.53
Barkin	2612.469	50-year	8.95	154.49	155.78		155.88	0.003605	1.64	9.78	19.07	0.52
Barkin	2607.462	Check	12.91	154.79	155.88		156.03	0.005567	2.08	11.80	19.86	0.66
Barkin	2607.462	Regional	10.83	154.79	155.81		155.95	0.005568	1.97	10.27	19.39	0.65
Barkin	2607.462	100-year	9.93	154.79	155.77		155.90	0.005596	1.93	9.56	19.17	0.65
Barkin	2607.462	50-year	8.95	154.79	155.73		155.86	0.005610	1.87	8.77	18.92	0.65
Barkin	2597.446	Check	12.91	154.68	155.83		155.98	0.005240	2.05	11.93	19.86	0.64
Barkin	2597.446	Regional	10.83	154.68	155.75		155.89	0.005171	1.94	10.43	19.40	0.63
Barkin	2597.446	100-year	9.93	154.68	155.72		155.85	0.005169	1.89	9.72	19.18	0.63
Barkin	2597.446	50-year	8.95	154.68	155.68		155.80	0.005134	1.83	8.94	18.94	0.62
Barkin	2592.439	Check	12.91	154.38	155.82		155.95	0.004072	1.91	12.65	19.95	0.56
Barkin	2592.439	Regional	10.83	154.38	155.74		155.86	0.003863	1.78	11.18	19.50	0.54
Barkin	2592.439	100-year	9.93	154.38	155.71		155.82	0.003779	1.72	10.49	19.29	0.54
Barkin	2592.439	50-year	8.95	154.38	155.67		155.78	0.003652	1.65	9.73	19.05	0.52
Barkin	2587.431	Check	12.91	154.68	155.77		155.92	0.005694	2.10	11.70	19.83	0.67
Barkin	2587.431	Regional	10.83	154.68	155.69		155.84	0.005678	1.99	10.19	19.37	0.66
Barkin	2587.431	100-year	9.93	154.68	155.66		155.80	0.005743	1.94	9.46	19.14	0.66
Barkin	2587.431	50-year	8.95	154.68	155.62		155.75	0.005763	1.89	8.68	18.89	0.65
Barkin	2577.416	Check	12.91	154.57	155.72		155.87	0.005400	2.07	11.79	19.82	0.65
Barkin	2577.416	Regional	10.83	154.57	155.64		155.78	0.005309	1.96	10.31	19.37	0.64
Barkin	2577.416	100-year	9.93	154.57	155.60		155.74	0.005360	1.91	9.57	19.14	0.64
Barkin	2577.416	50-year	8.95	154.57	155.56		155.69	0.005335	1.85	8.79	18.89	0.63
Barkin	2572.408	Check	12.91	154.27	155.71		155.84	0.004174	1.93	12.52	19.91	0.57
Barkin	2572.408	Regional	10.83	154.27	155.63		155.75	0.003944	1.79	11.08	19.47	0.55
Barkin	2572.408	100-year	9.93	154.27	155.59		155.71	0.003891	1.74	10.35	19.25	0.54
Barkin	2572.408	50-year	8.95	154.27	155.56		155.66	0.003766	1.67	9.60	19.01	0.53
Barkin	2567.401	Check	12.91	154.57	155.65		155.81	0.005965	2.13	11.49	19.76	0.68
Barkin	2567.401	Regional	10.83	154.57	155.58		155.73	0.005924	2.02	10.02	19.31	0.67
Barkin	2567.401	100-year	9.93	154.57	155.54		155.68	0.006147	1.99	9.20	19.06	0.68
Barkin	2567.401	50-year	8.95	154.57	155.49		155.64	0.006230	1.94	8.40	18.80	0.68
Barkin	2557.385	Check	12.91	154.47	155.59		155.75	0.005916	2.14	11.38	19.70	0.68
Barkin	2557.385	Regional	10.83	154.47	155.52		155.67	0.005769	2.01	9.98	19.27	0.66
Barkin	2557.385	100-year	9.93	154.47	155.47		155.62	0.006286	2.02	8.97	18.95	0.68
Barkin	2557.385	50-year	8.95	154.47	155.42		155.57	0.006592	1.99	8.05	18.66	0.69
Barkin	2552.378	Check	12.91	154.17	155.58	155.32	155.72	0.004562	1.99	12.08	19.78	0.60
Barkin	2552.378	Regional	10.83	154.17	155.51	155.30	155.64	0.004267	1.84	10.72	19.36	0.57

HEC-RAS Plan: Prop River: West Sheldon Cre Reach: Barkin (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Barkin	2552.378	100-year	9.93	154.17	155.46	155.28	155.59	0.004511	1.83	9.72	19.05	0.58
Barkin	2552.378	50-year	8.95	154.17	155.41		155.54	0.004560	1.79	8.82	18.76	0.58
Barkin	2547.370	Check	12.91	154.47	155.43	155.43	155.68	0.010532	2.60	9.17	19.05	0.89
Barkin	2547.370	Regional	10.83	154.47	155.30	155.30	155.58	0.014362	2.72	6.80	15.44	1.01
Barkin	2547.370	100-year	9.93	154.47	155.29	155.29	155.54	0.012619	2.53	6.68	15.39	0.94
Barkin	2547.370	50-year	8.95	154.47	155.27	155.27	155.49	0.011430	2.37	6.39	15.28	0.89
Barkin	2473	Check	12.91	153.63	155.21	154.53	155.29	0.002157	1.59	14.54	22.52	0.40
Barkin	2473	Regional	10.83	153.63	155.12	154.46	155.19	0.001890	1.44	13.52	22.01	0.38
Barkin	2473	100-year	9.93	153.63	155.09	154.43	155.15	0.001761	1.36	13.06	21.78	0.36
Barkin	2473	50-year	8.95	153.63	155.04	154.39	155.10	0.001618	1.28	12.54	21.52	0.34
Barkin	2458	Culvert										
Barkin	2443	Check	12.91	153.45	155.19	154.35	155.26	0.001520	1.43	15.60	23.31	0.35
Barkin	2443	Regional	10.83	153.45	155.12	154.28	155.17	0.001264	1.26	14.79	22.85	0.31
Barkin	2443	100-year	9.93	153.45	155.08	154.25	155.13	0.001153	1.19	14.41	22.64	0.30
Barkin	2443	50-year	8.95	153.45	155.04	154.21	155.08	0.001033	1.11	13.97	22.38	0.28
Barkin	2407	Check	12.91	153.71	155.02		155.14	0.005002	1.94	13.32	23.34	0.61
Barkin	2407	Regional	10.83	153.71	154.94		155.06	0.004991	1.84	11.61	22.89	0.60
Barkin	2407	100-year	9.93	153.71	154.91		155.02	0.004970	1.80	10.85	22.69	0.60
Barkin	2407	50-year	8.95	153.71	154.87		154.98	0.005022	1.75	9.92	22.44	0.60
Barkin	2283	Check	12.91	153.09	154.39		154.52	0.005045	1.95	13.27	23.32	0.61
Barkin	2283	Regional	10.83	153.09	154.32		154.44	0.004973	1.84	11.63	22.90	0.60
Barkin	2283	100-year	9.93	153.09	154.29		154.40	0.004998	1.80	10.82	22.68	0.60
Barkin	2283	50-year	8.95	153.09	154.25		154.36	0.004956	1.74	9.97	22.46	0.59
Barkin	2183	Check	12.91	152.59	153.90		154.02	0.004858	1.92	13.54	23.70	0.60
Barkin	2183	Regional	10.83	152.59	153.82		153.94	0.005023	1.85	11.63	23.15	0.61
Barkin	2183	100-year	9.93	152.59	153.79		153.90	0.005038	1.81	10.83	22.92	0.60
Barkin	2183	50-year	8.95	152.59	153.75		153.86	0.005030	1.75	9.94	22.66	0.60
Barkin	2083	Check	12.91	152.09	153.56		153.64	0.002753	1.59	16.56	24.37	0.47
Barkin	2083	Regional	10.83	152.09	153.46		153.54	0.002906	1.54	14.15	23.75	0.47
Barkin	2083	100-year	9.93	152.09	153.40		153.48	0.003168	1.55	12.76	23.39	0.49
Barkin	2083	50-year	8.95	152.09	153.34		153.42	0.003417	1.54	11.37	23.03	0.50
Barkin	2058	Check	12.91	152.03	153.49		153.56	0.002806	1.59	16.61	24.79	0.47
Barkin	2058	Regional	10.83	152.03	153.38		153.46	0.003121	1.57	13.91	24.19	0.49
Barkin	2058	100-year	9.93	152.03	153.29		153.39	0.003814	1.65	11.98	23.75	0.53
Barkin	2058	50-year	8.95	152.03	153.23		153.32	0.004157	1.64	10.45	21.30	0.55
Barkin	1928	Check	12.91	151.53	153.31		153.35	0.001018	1.13	23.87	26.19	0.29
Barkin	1928	Regional	10.83	151.53	153.19		153.23	0.001026	1.07	20.87	25.49	0.29
Barkin	1928	100-year	9.93	151.53	153.03		153.08	0.001507	1.20	16.87	24.52	0.35
Barkin	1928	50-year	8.95	151.53	152.88		152.94	0.002117	1.30	13.42	21.46	0.40
Barkin	1853	Check	12.91	151.05	153.29	151.82	153.31	0.000251	0.63	21.29	26.69	0.14
Barkin	1853	Regional	10.83	151.05	153.17	151.75	153.19	0.000214	0.56	20.06	25.96	0.13
Barkin	1853	100-year	9.93	151.05	153.02	151.73	153.03	0.000241	0.56	18.31	24.93	0.13
Barkin	1853	50-year	8.95	151.05	152.86	151.69	152.88	0.000266	0.55	16.65	23.94	0.14
Barkin	1837	Culvert										
Barkin	1821	Check	12.91	150.90	153.23	151.66	153.25	0.000204	0.58	25.86	20.79	0.13
Barkin	1821	Regional	10.83	150.90	153.14	151.60	153.15	0.000169	0.51	24.23	20.00	0.11
Barkin	1821	100-year	9.93	150.90	152.99	151.58	153.00	0.000197	0.53	19.20	18.75	0.12
Barkin	1821	50-year	8.95	150.90	152.85	151.54	152.86	0.000210	0.51	17.69	17.55	0.12
Barkin	1788	Check	12.91	150.74	153.24	152.17	153.24	0.000111	0.43	79.89	88.97	0.10
Barkin	1788	Regional	10.83	150.74	153.14	152.10	153.15	0.000105	0.41	71.43	87.44	0.10
Barkin	1788	100-year	9.93	150.74	152.99	152.06	153.00	0.000149	0.45	58.31	84.54	0.11
Barkin	1788	50-year	8.95	150.74	152.84	152.01	152.85	0.000199	0.49	46.70	75.17	0.13
Barkin	1745	Check	12.91	151.20	153.23	152.50	153.23	0.000226	0.58	78.00	132.25	0.14
Barkin	1745	Regional	10.83	151.20	153.13	152.47	153.14	0.000261	0.60	65.08	132.12	0.15
Barkin	1745	100-year	9.93	151.20	152.97	152.43	152.98	0.000476	0.76	44.46	105.51	0.20
Barkin	1745	50-year	8.95	151.20	152.81	152.38	152.83	0.000890	0.95	29.12	82.07	0.27
Barkin	1728	Culvert										
Barkin	1713	Check	12.91	151.18	153.23	152.36	153.23	0.000161	0.50	93.03	151.06	0.12
Barkin	1713	Regional	10.83	151.18	153.13	152.23	153.14	0.000185	0.51	78.33	150.93	0.13
Barkin	1713	100-year	9.93	151.18	152.97	152.19	152.98	0.000326	0.63	54.89	128.73	0.17

HEC-RAS Plan: Prop River: West Sheldon Cre Reach: Barkin (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Barkin	1713	50-year	8.95	151.18	152.82	152.15	152.83	0.000529	0.75	38.08	87.66	0.21
Barkin	1648	Check	12.91	153.31	153.22	152.27	153.22	0.000192		91.39	123.59	0.00
Barkin	1648	Regional	10.83	153.31	153.13	152.25	153.13	0.000216		79.28	123.22	0.00
Barkin	1648	100-year	9.93	153.31	152.96	152.23	152.96	0.000455		59.04	117.69	0.00
Barkin	1648	50-year	8.95	153.31	152.79	152.22	152.79	0.000953		41.06	96.58	0.00
Barkin	1523	Check	12.91	153.31	153.21	151.65	153.21	0.000092		88.24	64.84	0.00
Barkin	1523	Regional	10.83	153.31	153.11	151.60	153.11	0.000082		81.92	64.47	0.00
Barkin	1523	100-year	9.93	153.31	152.94	151.57	152.94	0.000110		70.87	63.51	0.00
Barkin	1523	50-year	8.95	153.31	152.76	151.54	152.76	0.000153		59.66	61.88	0.00
Barkin	1510	Check	12.91	153.31	153.20	152.25	153.20	0.000405		51.59	51.60	0.00
Barkin	1510	Regional	10.83	153.31	153.10	152.22	153.11	0.000394		46.61	51.15	0.00
Barkin	1510	100-year	9.93	153.31	152.93	152.21	152.93	0.000636		37.72	49.32	0.00
Barkin	1510	50-year	8.95	153.31	152.74	152.20	152.75	0.001138		28.92	45.86	0.00
Barkin	1500	Check	12.91	150.80	153.15	152.20	153.20	0.000478	1.08	24.76	82.54	0.23
Barkin	1500	Regional	10.83	150.80	152.85	152.04	153.08	0.002107	2.12	5.12	15.02	0.47
Barkin	1500	100-year	9.93	150.80	152.67	151.97	152.90	0.002414	2.13	4.67	13.73	0.50
Barkin	1500	50-year	8.95	150.80	152.47	151.89	152.71	0.002815	2.14	4.19	12.37	0.53
Barkin	1475	Culvert										
Barkin	1450	Check	12.91	150.70	152.10	152.10	152.79	0.010736	3.70	3.49	169.38	1.00
Barkin	1450	Regional	10.83	150.70	151.94	151.94	152.56	0.011304	3.50	3.09	166.69	1.01
Barkin	1450	100-year	9.93	150.70	151.87	151.87	152.46	0.011434	3.39	2.93	165.56	1.00
Barkin	1450	50-year	8.95	150.70	151.79	151.79	152.34	0.011614	3.27	2.74	164.27	1.00
Barkin	1430	Check	12.91	150.50	151.32	151.60	152.29	0.061393	4.74	4.58	18.40	2.01
Barkin	1430	Regional	10.83	150.50	151.29	151.54	152.09	0.052535	4.26	4.13	17.26	1.84
Barkin	1430	100-year	9.93	150.50	151.28	151.51	152.00	0.048578	4.03	3.93	16.71	1.76
Barkin	1430	50-year	8.95	150.50	151.27	151.48	151.91	0.044063	3.77	3.70	16.10	1.67
Barkin	1250	Check	12.91	149.80	151.50	150.59	151.51	0.000310	0.69	51.34	88.98	0.17
Barkin	1250	Regional	10.83	149.80	151.50	150.52	151.51	0.000218	0.58	51.34	88.98	0.15
Barkin	1250	100-year	9.93	149.80	151.50	150.50	151.51	0.000183	0.53	51.34	88.98	0.13
Barkin	1250	50-year	8.95	149.80	151.50	150.46	151.51	0.000149	0.48	51.34	88.98	0.12

HEC-RAS Plan: Prop River: Sheldon Creek Reach: Upper Main

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Upper Main	76	Check	5.80	162.53	162.96	162.84	163.00	0.005517	1.09	7.08	24.05	0.61
Upper Main	76	Regional Storm	6.21	162.53	163.19	162.85	163.20	0.001004	0.66	12.99	28.07	0.29
Upper Main	76	100 year	4.46	162.53	162.91	162.81	162.95	0.005632	0.99	5.95	23.30	0.60
Upper Main	76	50 year	4.02	162.53	162.90	162.80	162.93	0.005556	0.95	5.59	23.04	0.59
Upper Main	75.67*	Check	5.80	162.42	162.80	162.80	162.91	0.016091	1.66	4.51	22.79	1.02
Upper Main	75.67*	Regional Storm	6.21	162.42	163.18		163.20	0.000557	0.56	15.72	33.45	0.22
Upper Main	75.67*	100 year	4.46	162.42	162.77	162.77	162.86	0.014477	1.47	3.89	22.03	0.95
Upper Main	75.67*	50 year	4.02	162.42	162.76	162.75	162.84	0.014884	1.43	3.58	21.59	0.95
Upper Main	75.33*	Check	5.80	162.31	162.75	162.67	162.80	0.004795	1.05	6.87	29.50	0.58
Upper Main	75.33*	Regional Storm	6.21	162.31	163.19		163.19	0.000211	0.38	21.93	38.58	0.14
Upper Main	75.33*	100 year	4.46	162.31	162.63	162.63	162.72	0.014848	1.39	3.68	23.22	0.94
Upper Main	75.33*	50 year	4.02	162.31	162.62	162.62	162.70	0.014423	1.32	3.45	22.62	0.92
Upper Main	75	Check	5.80	162.20	162.76		162.77	0.000810	0.54	13.52	37.86	0.25
Upper Main	75	Regional Storm	6.21	162.20	163.19		163.19	0.000079	0.26	31.08	43.26	0.09
Upper Main	75	100 year	4.46	162.20	162.49	162.48	162.55	0.013005	1.20	4.22	29.42	0.87
Upper Main	75	50 year	4.02	162.20	162.47	162.46	162.54	0.013583	1.17	3.84	28.52	0.88
Upper Main	74.8*	Check	5.80	162.09	162.76		162.76	0.000370	0.42	18.21	40.68	0.18
Upper Main	74.8*	Regional Storm	6.21	162.09	163.19		163.19	0.000052	0.23	36.93	46.46	0.07
Upper Main	74.8*	100 year	4.46	162.09	162.37	162.37	162.44	0.013129	1.24	4.32	29.47	0.88
Upper Main	74.8*	50 year	4.02	162.09	162.37	162.36	162.43	0.012271	1.17	4.10	29.03	0.84
Upper Main	74.6*	Check	5.80	161.98	162.76		162.76	0.000187	0.34	23.84	44.46	0.13
Upper Main	74.6*	Regional Storm	6.21	161.98	163.19		163.19	0.000034	0.20	44.41	51.06	0.06
Upper Main	74.6*	100 year	4.46	161.98	162.26	162.26	162.33	0.014107	1.30	4.40	30.94	0.91
Upper Main	74.6*	50 year	4.02	161.98	162.24	162.24	162.31	0.014950	1.28	3.98	29.88	0.93
Upper Main	74.4*	Check	5.80	161.88	162.76		162.76	0.000098	0.27	31.28	50.16	0.10
Upper Main	74.4*	Regional Storm	6.21	161.88	163.19		163.19	0.000022	0.17	54.24	56.13	0.05
Upper Main	74.4*	100 year	4.46	161.88	162.14	162.13	162.20	0.015088	1.34	4.62	33.16	0.94
Upper Main	74.4*	50 year	4.02	161.88	162.13	162.13	162.19	0.013912	1.26	4.42	32.95	0.90
Upper Main	74.2*	Check	5.80	161.77	162.76		162.76	0.000050	0.21	41.47	56.28	0.07
Upper Main	74.2*	Regional Storm	6.21	161.77	163.19		163.19	0.000013	0.14	66.66	60.98	0.04
Upper Main	74.2*	100 year	4.46	161.77	162.00	162.00	162.06	0.019216	1.42	4.65	35.21	1.05
Upper Main	74.2*	50 year	4.02	161.77	161.98	161.98	162.05	0.020204	1.40	4.25	34.55	1.06
Upper Main	74	Check	5.80	161.66	162.76		162.76	0.000024	0.16	54.38	61.18	0.05
Upper Main	74	Regional Storm	6.21	161.66	163.19		163.19	0.000008	0.12	81.73	67.23	0.03
Upper Main	74	100 year	4.46	161.66	161.96	161.83	161.97	0.002423	0.65	10.33	46.55	0.40
Upper Main	74	50 year	4.02	161.66	161.84	161.82	161.88	0.017311	1.20	5.10	41.50	0.96
Upper Main	73.67*	Check	5.80	161.38	162.76		162.76	0.000013	0.14	65.54	68.07	0.04
Upper Main	73.67*	Regional Storm	6.21	161.38	163.19		163.19	0.000005	0.10	95.95	73.83	0.02
Upper Main	73.67*	100 year	4.46	161.38	161.96		161.96	0.000426	0.41	16.86	51.15	0.18
Upper Main	73.67*	50 year	4.02	161.38	161.84		161.85	0.001083	0.54	11.17	45.59	0.28
Upper Main	73.33*	Check	5.80	161.10	162.76		162.76	0.000007	0.11	79.33	74.90	0.03
Upper Main	73.33*	Regional Storm	6.21	161.10	163.19		163.19	0.000003	0.08	113.09	82.00	0.02
Upper Main	73.33*	100 year	4.46	161.10	161.96		161.96	0.000091	0.24	26.52	54.85	0.09
Upper Main	73.33*	50 year	4.02	161.10	161.84		161.85	0.000150	0.28	20.37	50.92	0.11
Upper Main	73	Check	5.80	160.83	162.76	161.17	162.76	0.000004	0.09	95.80	83.08	0.02
Upper Main	73	Regional Storm	6.21	160.83	163.19	161.18	163.19	0.000002	0.07	133.46	91.71	0.02
Upper Main	73	100 year	4.46	160.83	161.96	161.13	161.96	0.000026	0.16	39.02	59.84	0.05
Upper Main	73	50 year	4.02	160.83	161.84	161.11	161.84	0.000035	0.17	32.26	56.67	0.06
Upper Main	72.98		Culvert									
Upper Main	72.3	Check	5.80	160.67	162.72		162.72	0.000002	0.07	120.24	76.40	0.02
Upper Main	72.3	Regional Storm	6.21	160.67	163.16		163.16	0.000001	0.06	154.71	81.46	0.01
Upper Main	72.3	100 year	4.46	160.67	161.91		161.91	0.000008	0.10	61.98	66.23	0.03
Upper Main	72.3	50 year	4.02	160.67	161.79		161.79	0.000009	0.10	54.42	64.68	0.03
Upper Main	72	Check	5.80	160.01	162.72	160.59	162.72	0.000002	0.07	140.00	81.01	0.01
Upper Main	72	Regional Storm	6.21	160.01	163.16	160.62	163.16	0.000001	0.06	176.90	87.91	0.01
Upper Main	72	100 year	4.46	160.01	161.91	160.57	161.91	0.000005	0.10	78.48	69.27	0.02
Upper Main	72	50 year	4.02	160.01	161.79	160.51	161.79	0.000005	0.10	70.57	67.69	0.02
Upper Main	71.58		Culvert									
Upper Main	71.1	Check	5.80	158.73	159.80		159.80	0.000021	0.15	64.46	80.46	0.05
Upper Main	71.1	Regional Storm	6.21	158.73	159.76		159.76	0.000028	0.17	60.96	79.39	0.05
Upper Main	71.1	100 year	4.46	158.73	159.79		159.79	0.000013	0.12	63.26	80.17	0.04
Upper Main	71.1	50 year	4.02	158.73	159.89		159.89	0.000007	0.09	71.46	81.66	0.03

HEC-RAS Plan: Prop River: Sheldon Creek Reach: Upper Main (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Upper Main	71	Check	5.80	158.66	159.78		159.80	0.000633	0.67	13.49	22.43	0.23
Upper Main	71	Regional Storm	6.21	158.66	159.73		159.75	0.000861	0.76	12.46	19.99	0.26
Upper Main	71	100 year	4.46	158.66	159.77		159.78	0.000382	0.52	13.35	22.03	0.17
Upper Main	71	50 year	4.02	158.66	159.88		159.89	0.000204	0.41	15.86	24.00	0.13
Upper Main	70	Check	5.80	158.63	159.78		159.79	0.000487	0.57	15.05	23.90	0.20
Upper Main	70	Regional Storm	6.21	158.63	159.73		159.75	0.000698	0.65	13.85	23.39	0.23
Upper Main	70	100 year	4.46	158.63	159.77		159.78	0.000296	0.44	14.89	23.84	0.15
Upper Main	70	50 year	4.02	158.63	159.88		159.88	0.000156	0.35	17.49	24.89	0.11

HEC-RAS Plan: Prop River: 14MileCreekWest1 Reach: Reach2US

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach2US	2353.061	Check	7.35	180.41	181.03	181.03	181.22	0.009385	2.21	5.46	15.84	0.94
Reach2US	2353.061	Regional	9.18	180.41	181.10	181.10	181.31	0.009462	2.38	6.52	17.07	0.96
Reach2US	2353.061	100year	5.66	180.41	180.96	180.96	181.13	0.009592	2.04	4.37	14.47	0.93
Reach2US	2353.061	50year	5.10	180.41	180.93	180.93	181.09	0.009893	1.99	3.97	13.91	0.93
Reach2US	2330.126	Check	7.35	179.58	180.05	180.23	180.59	0.040039	3.60	3.10	12.90	1.82
Reach2US	2330.126	Regional	9.18	179.58	180.11	180.25	180.69	0.038905	3.84	3.79	14.27	1.83
Reach2US	2330.126	100year	5.66	179.58	180.00	180.15	180.48	0.042538	3.35	2.43	11.40	1.83
Reach2US	2330.126	50year	5.10	179.58	179.98	180.13	180.44	0.043154	3.25	2.21	10.88	1.83
Reach2US	2286.421	Check	7.35	176.70	177.04	177.22	177.78	0.088899	3.99	2.35	14.03	2.52
Reach2US	2286.421	Regional	9.18	176.70	177.07	177.30	177.92	0.089092	4.32	2.82	15.14	2.58
Reach2US	2286.421	100year	5.66	176.70	177.01	177.17	177.63	0.088681	3.63	1.91	12.87	2.46
Reach2US	2286.421	50year	5.10	176.70	176.99	177.15	177.58	0.087814	3.48	1.76	12.47	2.43
Reach2US	2187.265	Check	7.35	174.91	175.45	175.43	175.56	0.007690	1.68	6.67	25.82	0.81
Reach2US	2187.265	Regional	9.18	174.91	175.49	175.48	175.63	0.008032	1.83	7.85	26.97	0.84
Reach2US	2187.265	100year	5.66	174.91	175.39	175.37	175.50	0.007719	1.55	5.36	24.28	0.80
Reach2US	2187.265	50year	5.10	174.91	175.38	175.35	175.47	0.007643	1.49	4.91	23.28	0.79
Reach2US	2138.46	Check	7.35	174.61	174.97	174.97	175.09	0.013205	1.82	6.48	27.40	1.02
Reach2US	2138.46	Regional	9.18	174.61	175.01	175.01	175.14	0.012729	1.95	7.73	29.14	1.02
Reach2US	2138.46	100year	5.66	174.61	174.93	174.93	175.03	0.013308	1.67	5.35	26.23	1.00
Reach2US	2138.46	50year	5.10	174.61	174.91	174.91	175.01	0.013360	1.62	4.95	25.81	0.99
Reach2US	2087.265	Check	7.35	173.41	173.76	173.85	174.02	0.027440	2.48	4.24	21.92	1.44
Reach2US	2087.265	Regional	9.18	173.41	173.80	173.89	174.10	0.027527	2.68	5.08	23.80	1.47
Reach2US	2087.265	100year	5.66	173.41	173.72	173.79	173.95	0.028471	2.29	3.37	19.06	1.43
Reach2US	2087.265	50year	5.10	173.41	173.70	173.77	173.92	0.028702	2.20	3.09	18.03	1.42
Reach2US	1987.265	Check	7.35	171.74	172.33	172.33	172.51	0.010408	1.95	4.56	14.89	0.94
Reach2US	1987.265	Regional	9.18	171.74	172.39	172.39	172.59	0.010014	2.09	5.53	16.38	0.95
Reach2US	1987.265	100year	5.66	171.74	172.26	172.26	172.42	0.011386	1.82	3.60	13.23	0.96
Reach2US	1987.265	50year	5.10	171.74	172.24	172.23	172.39	0.011482	1.76	3.32	12.70	0.95
Reach2US	1887.265	Check	7.35	170.66	171.23	171.21	171.37	0.008967	1.81	5.52	19.29	0.88
Reach2US	1887.265	Regional	9.18	170.66	171.28	171.27	171.45	0.009020	1.96	6.60	21.08	0.90
Reach2US	1887.265	100year	5.66	170.66	171.18	171.15	171.30	0.008575	1.62	4.56	17.54	0.84
Reach2US	1887.265	50year	5.10	170.66	171.16	171.13	171.27	0.008051	1.53	4.30	17.05	0.81
Reach2US	1774.398	Check	7.35	169.69	170.28	170.26	170.43	0.008120	1.79	5.34	17.54	0.84
Reach2US	1774.398	Regional	9.18	169.69	170.34	170.31	170.51	0.008095	1.93	6.41	19.11	0.86
Reach2US	1774.398	100year	5.66	169.69	170.22	170.19	170.35	0.008554	1.65	4.24	15.76	0.84
Reach2US	1774.398	50year	5.10	169.69	170.19	170.17	170.31	0.009104	1.62	3.81	15.00	0.86
Reach2US	1674.398	Check	7.35	168.98	169.57	169.51	169.69	0.006703	1.65	6.14	20.10	0.77
Reach2US	1674.398	Regional	9.18	168.98	169.62	169.57	169.76	0.006729	1.79	7.36	22.04	0.78
Reach2US	1674.398	100year	5.66	168.98	169.52	169.51	169.61	0.005991	1.46	5.20	18.68	0.71
Reach2US	1674.398	50year	5.10	168.98	169.51	169.51	169.59	0.005237	1.34	5.05	18.44	0.66
Reach2US	1574.398	Check	7.35	168.34	168.90	168.86	169.01	0.006819	1.63	7.04	28.42	0.77
Reach2US	1574.398	Regional	9.18	168.34	168.95	168.92	169.07	0.006923	1.76	8.55	31.81	0.79
Reach2US	1574.398	100year	5.66	168.34	168.83	168.80	168.94	0.007757	1.56	5.25	23.79	0.80
Reach2US	1574.398	50year	5.10	168.34	168.79	168.78	168.91	0.009254	1.59	4.42	21.47	0.86
Reach2US	1474.398	Check	7.35	167.54	168.07	168.07	168.22	0.009785	1.84	5.64	21.35	0.91
Reach2US	1474.398	Regional	9.18	167.54	168.13	168.12	168.29	0.009473	1.96	6.85	23.12	0.91
Reach2US	1474.398	100year	5.66	167.54	168.03	168.00	168.15	0.008268	1.59	4.88	19.82	0.82
Reach2US	1474.398	50year	5.10	167.54	168.04	167.98	168.13	0.006540	1.42	4.93	19.92	0.73
Reach2US	1374.398	Check	7.35	166.71	167.49	167.49	167.57	0.002986	1.31	7.62	20.16	0.53
Reach2US	1374.398	Regional	9.18	166.71	167.60	167.60	167.68	0.002532	1.34	9.86	22.79	0.51
Reach2US	1374.398	100year	5.66	166.71	167.32	167.26	167.43	0.006362	1.53	4.45	15.72	0.74
Reach2US	1374.398	50year	5.10	166.71	167.26	167.23	167.39	0.008733	1.63	3.58	13.98	0.84
Reach2US	1319.166	Check	7.35	166.19	167.45	167.45	167.47	0.000232	0.56	21.52	29.18	0.17
Reach2US	1319.166	Regional	9.18	166.19	167.57	167.57	167.58	0.000247	0.61	24.94	30.61	0.17
Reach2US	1319.166	100year	5.66	166.19	167.20	167.20	167.21	0.000374	0.60	14.50	25.45	0.20
Reach2US	1319.166	50year	5.10	166.19	167.09	167.09	167.11	0.000498	0.64	11.87	23.25	0.23
Reach2US	1274.398	Check	7.35	165.99	167.45	167.45	167.46	0.000126	0.45	29.86	39.70	0.13
Reach2US	1274.398	Regional	9.18	165.99	167.56	167.56	167.57	0.000138	0.50	34.55	42.37	0.13
Reach2US	1274.398	100year	5.66	165.99	167.19	167.19	167.20	0.000187	0.47	20.37	33.38	0.15
Reach2US	1274.398	50year	5.10	165.99	167.08	167.08	167.09	0.000237	0.50	16.85	30.19	0.16
Reach2US	1217.843	Check	7.35	165.53	167.45	167.45	167.45	0.000007	0.14	115.53	88.26	0.03
Reach2US	1217.843	Regional	9.18	165.53	167.57	167.57	167.57	0.000009	0.16	125.85	91.69	0.04

HEC-RAS Plan: Prop River: 14MileCreekWest1 Reach: Reach2US (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach2US	1217.843	100year	5.66	165.53	167.19		167.19	0.000007	0.13	93.64	80.40	0.03
Reach2US	1217.843	50year	5.10	165.53	167.08		167.08	0.000008	0.12	84.86	77.12	0.03
Reach2US	1203.329	Check	7.35	165.53	167.45	166.26	167.45	0.000011	0.17	80.27	146.00	0.04
Reach2US	1203.329	Regional	9.18	165.53	167.56	166.38	167.57	0.000014	0.20	86.65	150.87	0.05
Reach2US	1203.329	100year	5.66	165.53	167.12	166.14	167.17	0.000422	0.93	6.07	99.51	0.24
Reach2US	1203.329	50year	5.10	165.53	167.01	166.10	167.06	0.000433	0.90	5.67	94.67	0.24
Reach2US	1168.172		Culvert									
Reach2US	1146.657	Check	7.35	164.61	165.49	165.49	165.91	0.009260	2.88	2.55	37.87	1.00
Reach2US	1146.657	Regional	9.18	164.61	165.62	165.62	166.11	0.008937	3.11	2.95	39.03	1.00
Reach2US	1146.657	100year	5.66	164.61	165.09	165.35	165.97	0.044086	4.14	1.37	18.77	1.96
Reach2US	1146.657	50year	5.10	164.61	165.05	165.30	165.90	0.048333	4.08	1.25	14.12	2.02
Reach2US	1131.498	Check	7.35	164.59	164.85	164.98	165.27	0.073248	2.91	2.85	20.56	2.17
Reach2US	1131.498	Regional	9.18	164.59	164.87	165.02	165.40	0.083033	3.29	3.21	21.62	2.35
Reach2US	1131.498	100year	5.66	164.59	164.97	164.93	165.04	0.007590	1.29	5.55	27.03	0.76
Reach2US	1131.498	50year	5.10	164.59	164.95	164.91	165.02	0.007591	1.25	5.12	25.99	0.75
Reach2US	1067.525	Check	7.35	164.23	164.73	164.59	164.76	0.002836	1.05	13.53	48.02	0.50
Reach2US	1067.525	Regional	9.18	164.23	164.77	164.63	164.81	0.002908	1.14	15.86	50.50	0.51
Reach2US	1067.525	100year	5.66	164.23	164.67		164.70	0.002884	0.98	11.01	44.91	0.49
Reach2US	1067.525	50year	5.10	164.23	164.65		164.68	0.002896	0.95	10.13	43.39	0.49
Reach2US	1021.544	Check	7.35	164.03	164.43	164.43	164.54	0.011181	1.72	6.90	29.99	0.94
Reach2US	1021.544	Regional	9.18	164.03	164.48	164.46	164.59	0.010414	1.81	8.35	31.44	0.93
Reach2US	1021.544	100year	5.66	164.03	164.39	164.39	164.48	0.011681	1.60	5.60	28.68	0.94
Reach2US	1021.544	50year	5.10	164.03	164.37	164.37	164.46	0.011639	1.54	5.18	28.21	0.93
Reach2US	974.3978	Check	7.35	163.43	163.95	163.93	164.07	0.008825	1.71	6.54	24.64	0.86
Reach2US	974.3978	Regional	9.18	163.43	164.00	163.98	164.13	0.008967	1.85	7.72	25.99	0.88
Reach2US	974.3978	100year	5.66	163.43	163.90	163.88	164.00	0.008717	1.56	5.38	23.38	0.84
Reach2US	974.3978	50year	5.10	163.43	163.88	163.86	163.98	0.008800	1.51	4.94	22.89	0.83
Reach2US	874.3979	Check	7.35	162.93	163.40		163.43	0.003295	1.11	13.02	49.02	0.53
Reach2US	874.3979	Regional	9.18	162.93	163.45		163.49	0.003253	1.18	15.42	50.82	0.54
Reach2US	874.3979	100year	5.66	162.93	163.35		163.38	0.003277	1.02	10.72	47.15	0.52
Reach2US	874.3979	50year	5.10	162.93	163.33		163.36	0.003331	0.99	9.73	43.50	0.52
Reach2US	774.3979	Check	7.35	162.71	163.21		163.22	0.001159	0.70	25.64	85.37	0.32
Reach2US	774.3979	Regional	9.18	162.71	163.26		163.27	0.001171	0.75	29.98	90.16	0.33
Reach2US	774.3979	100year	5.66	162.71	163.16		163.17	0.001105	0.63	21.66	80.86	0.31
Reach2US	774.3979	50year	5.10	162.71	163.14		163.14	0.001136	0.62	19.92	78.82	0.31
Reach2US	718.5678	Check	7.35	162.44	163.07	162.99	163.12	0.005116	1.30	10.71	43.77	0.65
Reach2US	718.5678	Regional	9.18	162.44	163.11		163.17	0.005183	1.36	12.74	46.31	0.66
Reach2US	718.5678	100year	5.66	162.44	163.02	162.94	163.07	0.005319	1.25	8.48	40.79	0.66
Reach2US	718.5678	50year	5.10	162.44	163.00	162.93	163.05	0.004888	1.17	7.82	38.89	0.63
Reach2US	661.272	Check	7.35	162.41	162.70		162.77	0.008688	1.37	8.13	37.25	0.81
Reach2US	661.272	Regional	9.18	162.41	162.74		162.82	0.008370	1.46	9.62	38.23	0.81
Reach2US	661.272	100year	5.66	162.41	162.67		162.73	0.008017	1.21	6.94	35.82	0.76
Reach2US	661.272	50year	5.10	162.41	162.66		162.71	0.007993	1.17	6.45	35.22	0.75
Reach2US	520.3523	Check	7.35	160.96	161.31	161.31	161.43	0.011262	1.71	6.42	28.75	0.94
Reach2US	520.3523	Regional	9.18	160.96	161.35	161.35	161.48	0.011411	1.85	7.59	30.56	0.97
Reach2US	520.3523	100year	5.66	160.96	161.25	161.25	161.37	0.012773	1.63	4.98	25.98	0.98
Reach2US	520.3523	50year	5.10	160.96	161.24	161.24	161.34	0.012653	1.56	4.60	25.11	0.96
Reach2US	474.398	Check	7.35	160.42	160.96	160.86	161.03	0.004687	1.34	9.03	29.64	0.64
Reach2US	474.398	Regional	9.18	160.42	161.03	160.90	161.10	0.004446	1.43	11.03	33.06	0.63
Reach2US	474.398	100year	5.66	160.42	160.90	160.81	160.96	0.004905	1.24	7.27	27.15	0.64
Reach2US	474.398	50year	5.10	160.42	160.88	160.79	160.93	0.005018	1.21	6.66	26.24	0.64
Reach2US	465.307*	Check	7.35	160.34	160.89		160.98	0.005658	1.47	7.64	25.71	0.70
Reach2US	465.307*	Regional	9.18	160.34	160.96		161.05	0.004992	1.53	9.55	28.18	0.67
Reach2US	465.307*	100year	5.66	160.34	160.83		160.91	0.005902	1.36	6.12	23.57	0.70
Reach2US	465.307*	50year	5.10	160.34	160.81		160.88	0.006085	1.33	5.58	22.75	0.70
Reach2US	456.216*	Check	7.35	160.26	160.81		160.92	0.006904	1.60	6.52	22.76	0.77
Reach2US	456.216*	Regional	9.18	160.26	160.90		161.00	0.005262	1.58	8.68	25.61	0.69
Reach2US	456.216*	100year	5.66	160.26	160.75		160.85	0.006967	1.46	5.26	20.62	0.76
Reach2US	456.216*	50year	5.10	160.26	160.73		160.82	0.007189	1.42	4.78	19.65	0.76
Reach2US	447.125*	Check	7.35	160.18	160.72	160.69	160.85	0.008393	1.71	5.66	19.91	0.84
Reach2US	447.125*	Regional	9.18	160.18	160.86		160.96	0.004506	1.52	8.73	24.63	0.65

HEC-RAS Plan: Prop River: 14MileCreekWest1 Reach: Reach2US (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach2US	447.125*	100year	5.66	160.18	160.66	160.63	160.77	0.008857	1.58	4.50	17.86	0.84
Reach2US	447.125*	50year	5.10	160.18	160.64	160.61	160.75	0.008923	1.53	4.14	17.17	0.84
Reach2US	439.805*	Check	7.35	160.10	160.68		160.79	0.006381	1.57	6.04	19.63	0.74
Reach2US	439.805*	Regional	9.18	160.10	160.84		160.92	0.003141	1.35	9.64	24.58	0.55
Reach2US	439.805*	100year	5.66	160.10	160.61		160.71	0.006758	1.45	4.80	17.61	0.75
Reach2US	439.805*	50year	5.10	160.10	160.59		160.68	0.006743	1.40	4.43	16.95	0.74
Reach2US	428.943*	Check	7.35	160.02	160.61		160.72	0.006248	1.55	5.89	18.82	0.74
Reach2US	428.943*	Regional	9.18	160.02	160.82		160.89	0.002280	1.22	10.62	25.00	0.47
Reach2US	428.943*	100year	5.66	160.02	160.52	160.48	160.63	0.007848	1.52	4.40	16.39	0.80
Reach2US	428.943*	50year	5.10	160.02	160.50	160.46	160.60	0.007922	1.46	4.05	15.76	0.79
Reach2US	419.852*	Check	7.35	159.93	160.57		160.67	0.004511	1.39	6.53	19.24	0.63
Reach2US	419.852*	Regional	9.18	159.93	160.82		160.87	0.001591	1.08	11.96	26.01	0.40
Reach2US	419.852*	100year	5.66	159.93	160.44	160.41	160.56	0.008216	1.53	4.23	15.66	0.81
Reach2US	419.852*	50year	5.10	159.93	160.42	160.38	160.53	0.008395	1.48	3.88	15.04	0.81
Reach2US	410.761*	Check	7.35	159.85	160.56		160.63	0.002979	1.21	7.57	20.36	0.52
Reach2US	410.761*	Regional	9.18	159.85	160.81		160.85	0.001106	0.96	13.62	27.27	0.34
Reach2US	410.761*	100year	5.66	159.85	160.37	160.33	160.48	0.007844	1.49	4.24	15.50	0.79
Reach2US	410.761*	50year	5.10	159.85	160.34	160.31	160.45	0.008499	1.47	3.81	14.76	0.82
Reach2US	401.67*	Check	7.35	159.77	160.55		160.60	0.001915	1.05	8.88	21.69	0.43
Reach2US	401.67*	Regional	9.18	159.77	160.81		160.84	0.000779	0.85	15.50	29.14	0.29
Reach2US	401.67*	100year	5.66	159.77	160.32		160.41	0.006206	1.38	4.57	15.82	0.71
Reach2US	401.67*	50year	5.10	159.77	160.27		160.37	0.007884	1.43	3.87	14.66	0.79
Reach2US	392.579*	Check	7.35	159.69	160.54		160.58	0.001262	0.91	10.41	23.35	0.35
Reach2US	392.579*	Regional	9.18	159.69	160.81		160.83	0.000560	0.76	17.59	30.90	0.25
Reach2US	392.579*	100year	5.66	159.69	160.28		160.36	0.004212	1.21	5.26	16.82	0.60
Reach2US	392.579*	50year	5.10	159.69	160.21		160.30	0.006586	1.34	4.12	15.01	0.72
Reach2US	383.488*	Check	7.35	159.61	160.54		160.57	0.000852	0.80	12.12	25.09	0.30
Reach2US	383.488*	Regional	9.18	159.61	160.81		160.83	0.000410	0.68	19.87	32.71	0.22
Reach2US	383.488*	100year	5.66	159.61	160.27		160.32	0.002643	1.04	6.26	18.25	0.48
Reach2US	383.488*	50year	5.10	159.61	160.18		160.25	0.004571	1.18	4.70	15.96	0.61
Reach2US	374.3979	Check	7.35	159.53	160.54	160.07	160.56	0.000582	0.70	14.08	27.12	0.25
Reach2US	374.3979	Regional	9.18	159.53	160.81	160.13	160.82	0.000302	0.61	22.43	34.77	0.19
Reach2US	374.3979	100year	5.66	159.53	160.26	160.02	160.30	0.001601	0.88	7.57	19.93	0.38
Reach2US	374.3979	50year	5.10	159.53	160.16	160.00	160.21	0.002745	1.00	5.67	17.39	0.48
Reach2US	341.3213		Culvert									
Reach2US	317.7586	Check	7.35	158.40	160.10		160.10	0.000040	0.29	51.15	51.96	0.07
Reach2US	317.7586	Regional	9.18	158.40	160.34		160.35	0.000034	0.29	64.54	56.86	0.07
Reach2US	317.7586	100year	5.66	158.40	159.86		159.86	0.000048	0.28	39.16	47.81	0.08
Reach2US	317.7586	50year	5.10	158.40	159.77		159.77	0.000051	0.28	35.21	46.23	0.08
Reach2US	309.835*	Check	7.35	158.40	160.10		160.10	0.000041	0.29	49.78	50.21	0.07
Reach2US	309.835*	Regional	9.18	158.40	160.34		160.35	0.000035	0.30	62.94	56.80	0.07
Reach2US	309.835*	100year	5.66	158.40	159.86		159.86	0.000048	0.29	38.24	45.94	0.08
Reach2US	309.835*	50year	5.10	158.40	159.77		159.77	0.000051	0.28	34.43	44.54	0.08
Reach2US	301.911*	Check	7.35	158.39	160.10		160.10	0.000040	0.29	51.19	54.48	0.07
Reach2US	301.911*	Regional	9.18	158.39	160.34		160.35	0.000033	0.29	65.27	59.38	0.07
Reach2US	301.911*	100year	5.66	158.39	159.86		159.86	0.000046	0.28	39.10	46.76	0.08
Reach2US	301.911*	50year	5.10	158.39	159.77		159.77	0.000048	0.28	35.26	44.56	0.08
Reach2US	293.9875	Check	7.62	158.39	160.07	158.96	160.10	0.000241	0.72	10.64	54.44	0.18
Reach2US	293.9875	Regional	9.52	158.39	160.31	159.04	160.34	0.000237	0.78	12.22	61.64	0.18
Reach2US	293.9875	100year	5.87	158.39	159.83	158.87	159.86	0.000240	0.64	9.11	46.76	0.17
Reach2US	293.9875	50year	5.29	158.39	159.75	158.85	159.77	0.000238	0.62	8.57	44.37	0.17
Reach2US	224.5062		Culvert									
Reach2US	145.4977	Check	7.62	157.17	157.91	158.00	158.33	0.018638	2.88	2.64	17.67	1.28
Reach2US	145.4977	Regional	9.52	157.17	158.00	158.10	158.48	0.016811	3.05	3.12	19.85	1.25
Reach2US	145.4977	100year	5.87	157.17	157.82	157.91	158.19	0.021335	2.70	2.17	13.41	1.33
Reach2US	145.4977	50year	5.29	157.17	157.79	157.87	158.14	0.022603	2.64	2.00	11.45	1.35
Reach2US	135.812*	Check	7.62	157.13	157.89	157.89	158.06	0.009401	1.91	5.21	17.20	0.90
Reach2US	135.812*	Regional	9.52	157.13	157.87	157.95	158.16	0.017103	2.53	4.88	17.02	1.21
Reach2US	135.812*	100year	5.87	157.13	157.82	157.82	157.98	0.009379	1.78	4.14	16.60	0.88
Reach2US	135.812*	50year	5.29	157.13	157.80	157.79	157.94	0.009584	1.74	3.70	15.41	0.88

HEC-RAS Plan: Prop River: 14MileCreekWest1 Reach: Reach2US (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach2US	126.126*	Check	7.62	157.10	157.76	157.79	157.95	0.012838	2.05	4.71	17.60	1.03
Reach2US	126.126*	Regional	9.52	157.10	157.82	157.85	158.02	0.011690	2.10	5.90	18.46	1.00
Reach2US	126.126*	100year	5.87	157.10	157.70	157.73	157.88	0.012579	1.89	3.75	16.42	1.00
Reach2US	126.126*	50year	5.29	157.10	157.70	157.70	157.84	0.010216	1.71	3.75	16.42	0.90
Reach2US	116.44*	Check	7.62	157.06	157.68	157.68	157.84	0.011192	1.84	5.19	19.22	0.95
Reach2US	116.44*	Regional	9.52	157.06	157.71	157.73	157.91	0.012753	2.06	5.86	19.92	1.03
Reach2US	116.44*	100year	5.87	157.06	157.62	157.63	157.76	0.011292	1.72	4.11	17.99	0.94
Reach2US	116.44*	50year	5.29	157.06	157.59	157.61	157.74	0.012039	1.71	3.63	16.92	0.96
Reach2US	106.7534	Check	7.62	157.02	157.59	157.57	157.72	0.008543	1.67	5.89	24.74	0.84
Reach2US	106.7534	Regional	9.52	157.02	157.71	157.63	157.80	0.004779	1.48	9.07	28.28	0.66
Reach2US	106.7534	100year	5.87	157.02	157.53	157.51	157.65	0.008732	1.53	4.65	21.28	0.83
Reach2US	106.7534	50year	5.29	157.02	157.51	157.49	157.62	0.008867	1.48	4.22	19.99	0.83
Reach2US	97.0341*	Check	7.62	156.91	157.50	157.48	157.63	0.008457	1.68	5.82	24.58	0.84
Reach2US	97.0341*	Regional	9.52	156.91	157.69		157.76	0.002819	1.25	11.07	29.37	0.52
Reach2US	97.0341*	100year	5.87	156.91	157.44	157.42	157.56	0.008568	1.54	4.59	21.45	0.83
Reach2US	97.0341*	50year	5.29	156.91	157.42	157.40	157.53	0.008691	1.49	4.16	19.76	0.82
Reach2US	87.3148*	Check	7.62	156.80	157.45		157.55	0.005500	1.47	6.93	25.71	0.69
Reach2US	87.3148*	Regional	9.52	156.80	157.68		157.73	0.001721	1.07	13.33	30.67	0.41
Reach2US	87.3148*	100year	5.87	156.80	157.35	157.33	157.47	0.008741	1.56	4.45	21.31	0.84
Reach2US	87.3148*	50year	5.29	156.80	157.33	157.31	157.44	0.008859	1.51	4.03	19.55	0.83
Reach2US	77.5955*	Check	7.62	156.69	157.44		157.50	0.003093	1.22	8.74	26.79	0.53
Reach2US	77.5955*	Regional	9.52	156.69	157.68		157.71	0.001096	0.93	15.81	31.93	0.34
Reach2US	77.5955*	100year	5.87	156.69	157.30	157.24	157.39	0.005861	1.38	5.30	23.56	0.70
Reach2US	77.5955*	50year	5.29	156.69	157.28	157.22	157.36	0.006110	1.35	4.72	22.00	0.70
Reach2US	67.8762*	Check	7.62	156.58	157.43		157.47	0.001783	1.02	10.84	28.24	0.41
Reach2US	67.8762*	Regional	9.52	156.58	157.67		157.70	0.000730	0.82	18.43	33.44	0.28
Reach2US	67.8762*	100year	5.87	156.58	157.28		157.34	0.003117	1.13	6.91	24.90	0.52
Reach2US	67.8762*	50year	5.29	156.58	157.25		157.31	0.003218	1.10	6.23	24.27	0.53
Reach2US	58.1569*	Check	7.62	156.46	157.42		157.45	0.001077	0.87	13.18	29.69	0.33
Reach2US	58.1569*	Regional	9.52	156.46	157.67		157.69	0.000502	0.73	21.16	34.65	0.24
Reach2US	58.1569*	100year	5.87	156.46	157.27		157.31	0.001660	0.92	8.92	26.37	0.39
Reach2US	58.1569*	50year	5.29	156.46	157.24		157.28	0.001654	0.89	8.19	25.71	0.39
Reach2US	48.4376*	Check	7.62	156.35	157.42		157.44	0.000682	0.75	15.65	30.55	0.27
Reach2US	48.4376*	Regional	9.52	156.35	157.67		157.69	0.000361	0.66	23.91	36.23	0.20
Reach2US	48.4376*	100year	5.87	156.35	157.27		157.29	0.000956	0.78	11.14	28.28	0.31
Reach2US	48.4376*	50year	5.29	156.35	157.24		157.26	0.000926	0.74	10.36	27.62	0.30
Reach2US	38.7184*	Check	7.62	156.24	157.42		157.44	0.000460	0.66	18.15	31.21	0.22
Reach2US	38.7184*	Regional	9.52	156.24	157.67		157.68	0.000269	0.60	26.71	37.55	0.18
Reach2US	38.7184*	100year	5.87	156.24	157.27		157.28	0.000583	0.66	13.54	28.80	0.24
Reach2US	38.7184*	50year	5.29	156.24	157.24		157.25	0.000554	0.63	12.74	28.41	0.24
Reach2US	28.9992*	Check	7.62	156.13	157.42		157.43	0.000321	0.59	20.62	31.63	0.19
Reach2US	28.9992*	Regional	9.52	156.13	157.67		157.68	0.000205	0.55	29.50	38.81	0.16
Reach2US	28.9992*	100year	5.87	156.13	157.26		157.28	0.000373	0.57	15.95	29.22	0.20
Reach2US	28.9992*	50year	5.29	156.13	157.24		157.25	0.000347	0.54	15.13	28.82	0.19
Reach2US	19.27992	Check	7.62	156.02	157.42		157.43	0.000237	0.54	23.05	33.12	0.17
Reach2US	19.27992	Regional	9.52	156.02	157.67		157.68	0.000161	0.51	32.31	40.45	0.14
Reach2US	19.27992	100year	5.87	156.02	157.26		157.27	0.000256	0.50	18.28	29.55	0.17
Reach2US	19.27992	50year	5.29	156.02	157.24		157.24	0.000235	0.47	17.46	29.19	0.16
Reach2US	16.6556*	Check	7.62	156.02	157.40		157.42	0.000573	0.78	17.22	28.93	0.25
Reach2US	16.6556*	Regional	9.52	156.02	157.66		157.68	0.000341	0.70	25.39	35.08	0.20
Reach2US	16.6556*	100year	5.87	156.02	157.25		157.27	0.000700	0.77	12.96	26.12	0.27
Reach2US	16.6556*	50year	5.29	156.02	157.22		157.24	0.000654	0.73	12.26	25.76	0.26
Reach2US	14.03128	Check	7.62	156.02	157.36	157.17	157.41	0.002247	1.33	11.25	24.55	0.45
Reach2US	14.03128	Regional	9.52	156.02	157.64	157.22	157.67	0.000955	1.04	18.90	30.43	0.31
Reach2US	14.03128	100year	5.87	156.02	157.11	157.11	157.25	0.007505	1.94	5.48	20.67	0.78
Reach2US	14.03128	50year	5.29	156.02	157.08	157.08	157.22	0.007571	1.89	4.95	19.92	0.78
Reach2US	12.82847		Culvert									
Reach2US	10.5	Check	7.62	155.18	155.77	155.77	155.88	0.010109	1.69	7.60	35.75	0.90
Reach2US	10.5	Regional	9.52	155.18	155.80	155.80	155.94	0.011236	1.88	8.73	37.02	0.96
Reach2US	10.5	100year	5.87	155.18	155.72	155.72	155.83	0.010603	1.57	5.99	33.71	0.90
Reach2US	10.5	50year	5.29	155.18	155.70	155.70	155.81	0.010828	1.53	5.43	32.88	0.90

HEC-RAS Plan: Prop River: 14MileCreekWest1 Reach: Reach2US (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach2US	10	Check	7.62	154.91	155.42	155.45	155.57	0.010319	1.89	7.05	35.49	0.93
Reach2US	10	Regional	9.52	154.91	155.47	155.49	155.63	0.009910	1.99	8.80	37.49	0.93
Reach2US	10	100year	5.87	154.91	155.38	155.40	155.51	0.010328	1.75	5.46	33.49	0.92
Reach2US	10	50year	5.29	154.91	155.36	155.38	155.49	0.010308	1.70	4.90	32.79	0.91

HEC-RAS Plan: Prop River: River 3 Reach: Reach 2

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach 2	30	Check	0.94	157.90	158.04	158.02	158.07	0.010457	0.77	1.31	13.41	0.71
Reach 2	30	Regional	0.89	157.90	158.04	158.02	158.07	0.009822	0.74	1.29	13.34	0.69
Reach 2	30	100year	0.73	157.90	158.03	158.01	158.05	0.011048	0.71	1.08	12.65	0.72
Reach 2	30	50year	0.65	157.90	158.02	158.00	158.04	0.011985	0.70	0.97	12.25	0.73
Reach 2	29	Check	0.94	157.45	157.55	157.54	157.59	0.020241	0.91	1.23	15.62	0.95
Reach 2	29	Regional	0.89	157.45	157.55	157.54	157.58	0.021548	0.91	1.16	15.47	0.98
Reach 2	29	100year	0.73	157.45	157.55	157.54	157.57	0.016930	0.78	1.10	15.33	0.86
Reach 2	29	50year	0.65	157.45	157.54	157.53	157.56	0.016383	0.74	1.03	15.17	0.84
Reach 2	28	Check	0.94	156.85	157.04	157.04	157.08	0.015254	0.87	1.15	13.06	0.85
Reach 2	28	Regional	0.89	156.85	157.03	157.03	157.07	0.015069	0.86	1.11	12.81	0.84
Reach 2	28	100year	0.73	156.85	157.01	157.01	157.05	0.020406	0.89	0.85	11.21	0.95
Reach 2	28	50year	0.65	156.85	157.01	157.00	157.04	0.021527	0.88	0.77	10.63	0.97
Reach 2	27	Check	0.94	156.48	156.64	156.60	156.67	0.010350	0.81	1.42	12.97	0.72
Reach 2	27	Regional	0.89	156.48	156.64	156.61	156.66	0.010037	0.79	1.38	12.80	0.71
Reach 2	27	100year	0.73	156.48	156.62		156.64	0.010697	0.76	1.17	12.06	0.72
Reach 2	27	50year	0.65	156.48	156.61		156.63	0.010224	0.72	1.10	11.81	0.70
Reach 2	26	Check	0.94	156.14	156.22	156.22	156.24	0.017411	0.79	1.74	24.70	0.87
Reach 2	26	Regional	0.89	156.14	156.22	156.20	156.24	0.017251	0.77	1.68	24.56	0.86
Reach 2	26	100year	0.73	156.14	156.22	156.20	156.23	0.015796	0.69	1.52	24.17	0.81
Reach 2	26	50year	0.65	156.14	156.21	156.20	156.22	0.015980	0.67	1.40	23.87	0.81
Reach 2	25	Check	0.94	155.59	155.76	155.76	155.79	0.014813	0.85	1.34	16.54	0.83
Reach 2	25	Regional	0.89	155.59	155.76	155.76	155.79	0.014953	0.84	1.28	16.19	0.83
Reach 2	25	100year	0.73	155.59	155.74	155.74	155.77	0.018267	0.84	1.02	14.54	0.90
Reach 2	25	50year	0.65	155.59	155.74	155.74	155.77	0.018041	0.81	0.94	13.97	0.89
Reach 2	24.48		Culvert									
Reach 2	24	Check	0.94	154.10	154.49		154.50	0.001177	0.45	4.61	26.83	0.29
Reach 2	24	Regional	0.89	154.10	154.45		154.46	0.002142	0.53	3.57	24.54	0.38
Reach 2	24	100year	0.73	154.10	154.41		154.42	0.003793	0.61	2.56	23.02	0.48
Reach 2	24	50year	0.65	154.10	154.38		154.39	0.004862	0.61	2.04	18.84	0.53
Reach 2	23	Check	1.41	153.98	154.48		154.48	0.000133	0.24	17.22	50.37	0.11
Reach 2	23	Regional	1.27	153.98	154.43		154.43	0.000168	0.25	14.89	48.99	0.12
Reach 2	23	100year	1.09	153.98	154.37		154.37	0.000245	0.27	11.92	46.80	0.14
Reach 2	23	50year	0.97	153.98	154.33		154.33	0.000334	0.30	9.97	45.14	0.16
Reach 2	22.6	Check	1.41	153.69	154.48	153.83	154.48	0.000006	0.06	35.97	64.12	0.02
Reach 2	22.6	Regional	1.27	153.69	154.43	153.82	154.43	0.000006	0.06	32.95	62.68	0.02
Reach 2	22.6	100year	1.09	153.69	154.37	153.80	154.37	0.000006	0.06	29.00	60.82	0.02
Reach 2	22.6	50year	0.97	153.69	154.32	153.80	154.32	0.000007	0.06	26.32	59.35	0.02
Reach 2	22.52		Culvert									
Reach 2	22.35	Check	1.41	153.37	153.74		153.75	0.000569	0.29	5.93	37.11	0.20
Reach 2	22.35	Regional	1.27	153.37	153.73		153.74	0.000564	0.28	5.48	36.15	0.20
Reach 2	22.35	100year	1.09	153.37	153.71		153.72	0.000560	0.27	4.88	34.82	0.19
Reach 2	22.35	50year	0.97	153.37	153.70		153.71	0.000560	0.25	4.46	33.84	0.19
Reach 2	22	Check	1.41	153.30	153.70		153.70	0.002916	0.58	6.03	37.31	0.32
Reach 2	22	Regional	1.27	153.30	153.69		153.69	0.002910	0.57	5.62	36.58	0.32
Reach 2	22	100year	1.09	153.30	153.67		153.68	0.002902	0.55	5.07	35.57	0.32
Reach 2	22	50year	0.97	153.30	153.66		153.67	0.002899	0.53	4.68	34.78	0.31
Reach 2	21.5	Check	1.41	152.30	152.69		152.69	0.005603	0.78	4.62	31.63	0.44
Reach 2	21.5	Regional	1.27	152.30	152.68		152.68	0.005615	0.77	4.29	30.84	0.44
Reach 2	21.5	100year	1.09	152.30	152.66		152.67	0.005636	0.74	3.85	29.77	0.44
Reach 2	21.5	50year	0.97	152.30	152.65		152.66	0.005643	0.73	3.55	29.01	0.43
Reach 2	21	Check	1.41	151.43	151.69		151.70	0.002185	0.58	5.67	32.65	0.39
Reach 2	21	Regional	1.27	151.43	151.68		151.69	0.002185	0.56	5.29	32.19	0.39
Reach 2	21	100year	1.09	151.43	151.67		151.67	0.002137	0.53	4.81	31.60	0.38
Reach 2	21	50year	0.97	151.43	151.66		151.66	0.002115	0.51	4.47	31.18	0.37
Reach 2	20	Check	1.41	150.80	151.16	151.11	151.18	0.015229	1.21	2.77	18.75	0.72
Reach 2	20	Regional	1.27	150.80	151.15	151.11	151.17	0.014630	1.17	2.62	18.59	0.70
Reach 2	20	100year	1.09	150.80	151.13	151.10	151.15	0.016774	1.19	2.27	18.21	0.74
Reach 2	20	50year	0.97	150.80	151.12	151.09	151.14	0.018106	1.20	2.05	17.97	0.76

HEC-RAS Plan: Prop River: RIVER-3 Reach: Reach-1

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach-1	16	Check	2.00	159.48	159.69	159.69	159.75	0.017784	1.10	1.96	17.32	0.95
Reach-1	16	Regional	2.74	159.48	159.72	159.72	159.79	0.017177	1.19	2.52	19.09	0.96
Reach-1	16	100yr	1.54	159.48	159.67	159.67	159.72	0.019108	1.04	1.56	15.71	0.97
Reach-1	16	50yr	1.38	159.48	159.66	159.66	159.71	0.019664	1.02	1.42	14.99	0.97
Reach-1	15.5	Check	2.00	157.65	157.85	157.81	157.86	0.007146	0.54	3.90	44.43	0.57
Reach-1	15.5	Regional	2.74	157.65	157.87	157.83	157.89	0.007060	0.58	4.95	50.34	0.57
Reach-1	15.5	100yr	1.54	157.65	157.83	157.80	157.84	0.007186	0.51	3.16	39.90	0.56
Reach-1	15.5	50yr	1.38	157.65	157.82	157.79	157.84	0.007228	0.50	2.88	37.96	0.56
Reach-1	15.2	Check	2.00	156.72	156.94	156.94	157.01	0.020258	1.14	1.76	13.61	1.01
Reach-1	15.2	Regional	2.74	156.72	156.98	156.98	157.05	0.019397	1.21	2.26	15.43	1.01
Reach-1	15.2	100yr	1.54	156.72	156.92	156.92	156.97	0.020851	1.07	1.44	12.36	1.01
Reach-1	15.2	50yr	1.38	156.72	156.91	156.91	156.96	0.021229	1.05	1.31	11.85	1.01
Reach-1	15	Check	2.00	155.17	156.17	155.53	156.17	0.000092	0.25	8.79	15.21	0.09
Reach-1	15	Regional	2.74	155.17	156.42	155.58	156.42	0.000063	0.25	12.93	18.69	0.08
Reach-1	15	100yr	1.54	155.17	156.01	155.49	156.01	0.000127	0.25	6.47	13.11	0.10
Reach-1	15	50yr	1.38	155.17	155.95	155.48	155.95	0.000147	0.25	5.69	12.36	0.11
Reach-1	14.17	Culvert										
Reach-1	13	Check	2.00	154.82	155.51		155.51	0.000078	0.18	12.42	33.34	0.08
Reach-1	13	Regional	2.74	154.82	155.71		155.71	0.000041	0.16	20.92	48.14	0.06
Reach-1	13	100yr	1.54	154.82	155.36		155.36	0.000146	0.20	8.12	27.16	0.10
Reach-1	13	50yr	1.38	154.82	155.31		155.31	0.000196	0.21	6.77	23.65	0.12
Reach-1	12.9	Check	2.15	154.80	155.50		155.51	0.000036	0.14	20.30	49.68	0.06
Reach-1	12.9	Regional	2.93	154.80	155.71		155.71	0.000021	0.13	31.35	56.62	0.04
Reach-1	12.9	100yr	1.65	154.80	155.36		155.36	0.000061	0.15	13.43	42.77	0.07
Reach-1	12.9	50yr	1.48	154.80	155.30		155.30	0.000077	0.16	11.24	38.41	0.08
Reach-1	12.8	Check	2.15	154.76	155.50	154.94	155.50	0.000029	0.12	23.07	49.76	0.05
Reach-1	12.8	Regional	2.93	154.76	155.71	154.97	155.71	0.000018	0.11	34.15	56.71	0.04
Reach-1	12.8	100yr	1.65	154.76	155.36	154.92	155.36	0.000048	0.13	16.09	44.80	0.06
Reach-1	12.8	50yr	1.48	154.76	155.30	154.91	155.30	0.000062	0.13	13.71	43.01	0.07
Reach-1	12.7	Culvert										
Reach-1	12.6	Check	2.15	154.36	154.68	154.62	154.70	0.006592	0.75	3.12	21.24	0.60
Reach-1	12.6	Regional	2.93	154.36	154.71	154.65	154.74	0.006734	0.81	3.93	23.57	0.61
Reach-1	12.6	100yr	1.65	154.36	154.65	154.59	154.67	0.006437	0.70	2.57	19.36	0.58
Reach-1	12.6	50yr	1.48	154.36	154.64	154.58	154.66	0.006348	0.69	2.33	17.97	0.58
Reach-1	12	Check	2.15	153.50	153.68	153.68	153.74	0.017626	1.13	1.91	14.87	1.00
Reach-1	12	Regional	2.93	153.50	153.71	153.71	153.78	0.016888	1.21	2.42	16.33	1.01
Reach-1	12	100yr	1.65	153.50	153.65	153.65	153.71	0.018428	1.06	1.56	13.77	1.00
Reach-1	12	50yr	1.48	153.50	153.64	153.64	153.70	0.018822	1.03	1.43	13.36	1.01
Reach-1	11	Check	2.15	151.50	152.61	151.63	152.61	0.000005	0.07	31.44	37.62	0.02
Reach-1	11	Regional	2.93	151.50	152.69	151.66	152.69	0.000007	0.09	34.73	39.00	0.03
Reach-1	11	100yr	1.65	151.50	152.01	151.61	152.01	0.000066	0.15	11.36	29.34	0.07
Reach-1	11	50yr	1.48	151.50	151.81	151.60	151.81	0.000344	0.24	6.08	24.57	0.16
Reach-1	10	Check	2.15	150.20	152.61		152.61	0.000002	0.07	50.76	35.89	0.02
Reach-1	10	Regional	2.93	150.20	152.69		152.69	0.000002	0.09	53.87	36.85	0.02
Reach-1	10	100yr	1.65	150.20	152.01		152.01	0.000003	0.08	31.20	29.16	0.02
Reach-1	10	50yr	1.48	150.20	151.81		151.81	0.000004	0.08	25.73	26.67	0.02
Reach-1	9	Check	2.15	149.70	152.56	150.53	152.60	0.000151	0.83	2.60	29.45	0.16
Reach-1	9	Regional	2.93	149.70	152.67	150.72	152.69	0.002227	0.51	5.74	30.16	0.37
Reach-1	9	100yr	1.65	149.70	151.96	150.39	152.00	0.000195	0.80	2.06	25.70	0.17
Reach-1	9	50yr	1.48	149.70	151.77	150.34	151.80	0.000211	0.79	1.88	24.48	0.17
Reach-1	8.5	Culvert										
Reach-1	8	Check	2.15	149.30	150.13	150.13	150.55	0.009439	2.87	0.75	20.46	1.00
Reach-1	8	Regional	2.93	149.30	150.32	150.32	150.84	0.008826	3.18	0.92	22.56	1.00
Reach-1	8	100yr	1.65	149.30	150.00	150.00	150.35	0.010035	2.63	0.63	18.95	1.00
Reach-1	8	50yr	1.48	149.30	149.95	149.95	150.28	0.010291	2.53	0.58	17.77	1.00
Reach-1	7	Check	2.15	147.50	147.55	147.70	149.29	1.793911	5.84	0.37	7.77	8.57
Reach-1	7	Regional	2.93	147.50	147.56	147.73	149.58	1.598459	6.29	0.47	8.07	8.36
Reach-1	7	100yr	1.65	147.50	147.54	147.67	149.11	2.054032	5.54	0.30	7.53	8.90
Reach-1	7	50yr	1.48	147.50	147.54	147.66	149.01	2.111445	5.37	0.28	7.45	8.92

HEC-RAS Plan: Prop River: RIVER-1 Reach: Reach-1

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach-1	25	Check	5.37	155.95	157.34	156.12	157.34	0.000004	0.07	115.56	112.12	0.02
Reach-1	25	Regional	4.56	155.95	156.78	156.11	156.78	0.000023	0.13	56.70	97.60	0.05
Reach-1	25	100yr	4.13	155.95	156.53	156.10	156.53	0.000086	0.20	33.23	84.74	0.08
Reach-1	25	50yr	3.71	155.95	156.31	156.09	156.32	0.000485	0.34	16.57	68.15	0.18
Reach-1	24	Check	5.37	155.81	157.34		157.34	0.000005	0.09	99.63	96.39	0.02
Reach-1	24	Regional	4.56	155.81	156.78		156.78	0.000026	0.15	49.16	82.49	0.05
Reach-1	24	100yr	4.13	155.81	156.52		156.52	0.000085	0.22	29.59	68.89	0.09
Reach-1	24	50yr	3.71	155.81	156.30		156.30	0.000345	0.34	15.91	49.00	0.16
Reach-1	23	Check	5.37	155.29	157.33		157.34	0.000004	0.11	123.81	109.61	0.03
Reach-1	23	Regional	4.56	155.29	156.78		156.78	0.000017	0.17	64.96	102.74	0.05
Reach-1	23	100yr	4.13	155.29	156.52		156.52	0.000034	0.21	42.71	72.44	0.06
Reach-1	23	50yr	3.71	155.29	156.29		156.29	0.000067	0.26	27.86	55.69	0.09
Reach-1	22.2	Check	5.37	154.64	157.33	155.09	157.34	0.000004	0.12	107.05	85.67	0.02
Reach-1	22.2	Regional	4.56	154.64	156.78	155.06	156.78	0.000008	0.15	64.86	63.53	0.03
Reach-1	22.2	100yr	4.13	154.64	156.52	155.04	156.52	0.000012	0.17	49.51	55.14	0.04
Reach-1	22.2	50yr	3.71	154.64	156.29	155.02	156.29	0.000017	0.18	37.89	47.63	0.05
Reach-1	21.7		Culvert									
Reach-1	21.2	Check	5.80	154.34	155.97		155.97	0.000010	0.14	97.60	92.74	0.04
Reach-1	21.2	Regional	4.88	154.34	155.79		155.79	0.000013	0.14	80.65	91.00	0.04
Reach-1	21.2	100yr	4.46	154.34	155.70		155.70	0.000014	0.14	72.90	88.04	0.04
Reach-1	21.2	50yr	4.00	154.34	155.61		155.61	0.000016	0.14	64.64	83.91	0.04
Reach-1	21	Check	5.80	154.18	155.97	154.47	155.97	0.000004	0.10	109.77	90.38	0.02
Reach-1	21	Regional	4.88	154.18	155.79	154.45	155.79	0.000005	0.10	93.28	88.63	0.03
Reach-1	21	100yr	4.46	154.18	155.70	154.44	155.70	0.000005	0.10	85.66	87.90	0.03
Reach-1	21	50yr	4.00	154.18	155.61	154.43	155.61	0.000006	0.10	77.19	87.07	0.03
Reach-1	20.78		Culvert									
Reach-1	20	Check	5.80	153.97	154.45		154.47	0.001765	0.80	13.06	39.89	0.39
Reach-1	20	Regional	4.88	153.97	154.40		154.42	0.001809	0.76	11.43	38.18	0.39
Reach-1	20	100yr	4.46	153.97	154.38		154.40	0.001828	0.74	10.68	37.46	0.39
Reach-1	20	50yr	4.00	153.97	154.36		154.38	0.001858	0.71	9.83	36.64	0.39
Reach-1	19.5	Check	5.80	153.00	153.50	153.50	153.68	0.013156	1.86	3.12	9.00	1.01
Reach-1	19.5	Regional	4.88	153.00	153.46	153.46	153.62	0.013417	1.78	2.74	8.51	1.00
Reach-1	19.5	100yr	4.46	153.00	153.43	153.43	153.59	0.013630	1.75	2.55	8.27	1.00
Reach-1	19.5	50yr	4.00	153.00	153.41	153.41	153.56	0.013751	1.70	2.35	8.00	1.00
Reach-1	19	Check	5.80	150.00	150.39	150.44	150.61	0.020457	2.07	2.81	9.76	1.23
Reach-1	19	Regional	4.88	150.00	150.36	150.40	150.55	0.019966	1.95	2.50	9.29	1.20
Reach-1	19	100yr	4.46	150.00	150.34	150.38	150.52	0.019616	1.89	2.36	9.07	1.18
Reach-1	19	50yr	4.00	150.00	150.32	150.35	150.49	0.019376	1.83	2.19	8.80	1.17

HEC-RAS Plan: Prop River: RIVER-2 Reach: Reach-1

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach-1	30	Check	16.91	160.53	161.96	161.22	161.98	0.000403	0.82	39.56	49.23	0.22
Reach-1	30	Regional	17.66	160.53	162.09	161.24	162.11	0.000303	0.76	46.37	54.06	0.20
Reach-1	30	100yr	13.01	160.53	161.77	161.14	161.79	0.000434	0.77	30.82	43.05	0.23
Reach-1	30	50yr	11.72	160.53	161.71	161.10	161.73	0.000439	0.75	28.17	41.52	0.23
Reach-1	29.9*	Check	16.91	160.39	161.96		161.98	0.000292	0.75	44.20	51.90	0.19
Reach-1	29.9*	Regional	17.66	160.39	162.09		162.11	0.000226	0.70	51.33	56.35	0.17
Reach-1	29.9*	100yr	13.01	160.39	161.77		161.79	0.000304	0.70	34.80	47.04	0.19
Reach-1	29.9*	50yr	11.72	160.39	161.71		161.72	0.000302	0.67	31.90	45.16	0.19
Reach-1	29.8*	Check	16.91	160.26	161.96		161.98	0.000205	0.67	48.47	50.21	0.17
Reach-1	29.8*	Regional	17.66	160.26	162.09		162.11	0.000165	0.63	55.36	54.60	0.15
Reach-1	29.8*	100yr	13.01	160.26	161.77		161.78	0.000193	0.60	39.70	43.38	0.16
Reach-1	29.8*	50yr	11.72	160.26	161.71		161.72	0.000186	0.57	37.02	42.12	0.15
Reach-1	29.75*	Check	16.91	160.12	161.96		161.97	0.000143	0.59	52.77	44.55	0.14
Reach-1	29.75*	Regional	17.66	160.12	162.09		162.10	0.000120	0.57	58.82	47.68	0.13
Reach-1	29.75*	100yr	13.01	160.12	161.77		161.78	0.000126	0.52	44.84	39.34	0.13
Reach-1	29.75*	50yr	11.72	160.12	161.71		161.72	0.000117	0.49	42.43	37.84	0.12
Reach-1	29.7	Check	16.91	159.99	161.96		161.97	0.000103	0.53	57.11	39.74	0.12
Reach-1	29.7	Regional	17.66	159.99	162.09		162.10	0.000093	0.53	62.53	44.57	0.12
Reach-1	29.7	100yr	13.01	159.99	161.77		161.78	0.000086	0.45	49.90	36.68	0.11
Reach-1	29.7	50yr	11.72	159.99	161.71		161.72	0.000079	0.43	47.63	35.75	0.10
Reach-1	29.65*	Check	16.91	159.99	161.94		161.97	0.000304	0.87	40.24	40.58	0.20
Reach-1	29.65*	Regional	17.66	159.99	162.08		162.10	0.000253	0.83	45.96	45.85	0.19
Reach-1	29.65*	100yr	13.01	159.99	161.76		161.78	0.000268	0.76	33.37	34.50	0.19
Reach-1	29.65*	50yr	11.72	159.99	161.70		161.71	0.000251	0.72	31.30	32.87	0.18
Reach-1	29.6	Check	16.91	160.00	161.73	161.60	161.94	0.002972	2.34	16.65	34.89	0.60
Reach-1	29.6	Regional	17.66	160.00	161.98		162.09	0.001411	1.78	26.63	46.57	0.43
Reach-1	29.6	100yr	13.01	160.00	161.43	161.43	161.74	0.005027	2.64	8.69	21.61	0.76
Reach-1	29.6	50yr	11.72	160.00	161.39	161.39	161.68	0.004778	2.51	7.84	20.87	0.73
Reach-1	29.55*	Check	16.91	159.97	161.83		161.89	0.000821	1.32	30.65	51.58	0.33
Reach-1	29.55*	Regional	17.66	159.97	162.02		162.06	0.000469	1.08	41.15	54.63	0.25
Reach-1	29.55*	100yr	13.01	159.97	160.78	161.13	161.61	0.028681	4.05	3.42	6.36	1.64
Reach-1	29.55*	50yr	11.72	159.97	160.73	160.97	161.54	0.032295	4.03	3.06	6.19	1.71
Reach-1	29.53*	Check	16.91	159.95	161.85		161.87	0.000329	0.86	43.83	49.22	0.21
Reach-1	29.53*	Regional	17.66	159.95	162.03		162.05	0.000220	0.75	53.15	51.05	0.17
Reach-1	29.53*	100yr	13.01	159.95	160.65	160.90	161.31	0.028074	3.62	3.79	8.10	1.59
Reach-1	29.53*	50yr	11.72	159.95	160.63	160.81	161.22	0.027127	3.43	3.58	7.99	1.55
Reach-1	29.47*	Check	16.91	159.92	161.85		161.87	0.000181	0.65	52.14	43.86	0.16
Reach-1	29.47*	Regional	17.66	159.92	162.04		162.05	0.000132	0.59	60.35	45.32	0.14
Reach-1	29.47*	100yr	13.01	159.92	160.92	160.71	161.03	0.002820	1.56	14.06	37.44	0.55
Reach-1	29.47*	50yr	11.72	159.92	160.57	160.68	160.97	0.019895	2.85	4.70	13.66	1.32
Reach-1	29.4	Check	16.91	159.88	161.85		161.86	0.000123	0.55	55.55	37.52	0.13
Reach-1	29.4	Regional	17.66	159.88	162.04		162.05	0.000095	0.51	62.51	38.49	0.12
Reach-1	29.4	100yr	13.01	159.88	160.96		160.99	0.000866	0.92	24.05	33.37	0.31
Reach-1	29.4	50yr	11.72	159.88	160.71	160.47	160.76	0.002350	1.22	15.82	32.09	0.48
Reach-1	29.3*	Check	16.91	159.72	161.86		161.86	0.000098	0.52	67.72	47.17	0.12
Reach-1	29.3*	Regional	17.66	159.72	162.04		162.05	0.000076	0.49	76.52	48.75	0.11
Reach-1	29.3*	100yr	13.01	159.72	160.96		160.98	0.000657	0.91	28.15	41.21	0.28
Reach-1	29.3*	50yr	11.72	159.72	160.70		160.75	0.001576	1.18	18.09	33.50	0.41
Reach-1	29.25*	Check	16.91	159.55	161.86		161.86	0.000088	0.53	78.31	57.53	0.11
Reach-1	29.25*	Regional	17.66	159.55	162.04		162.04	0.000068	0.49	89.20	60.95	0.10
Reach-1	29.25*	100yr	13.01	159.55	160.96		160.98	0.000511	0.90	31.69	41.82	0.25
Reach-1	29.25*	50yr	11.72	159.55	160.69		160.74	0.001128	1.15	21.64	36.67	0.36
Reach-1	29.2	Check	16.91	159.38	161.86	160.09	161.86	0.000091	0.57	87.56	70.68	0.12
Reach-1	29.2	Regional	17.66	159.38	162.04	160.09	162.04	0.000066	0.51	100.56	70.68	0.10
Reach-1	29.2	100yr	13.01	159.38	160.96	160.02	160.97	0.000434	0.91	36.81	43.14	0.24
Reach-1	29.2	50yr	11.72	159.38	160.69	159.98	160.72	0.000882	1.14	25.95	39.08	0.33
Reach-1	28.7	Culvert										
Reach-1	28.2	Check	16.91	158.50	160.63		160.63	0.000043	0.35	100.34	61.61	0.08
Reach-1	28.2	Regional	17.66	158.50	160.70		160.70	0.000041	0.35	104.71	61.61	0.08
Reach-1	28.2	100yr	13.01	158.50	160.24		160.24	0.000058	0.36	76.28	61.61	0.09
Reach-1	28.2	50yr	11.72	158.50	160.10		160.11	0.000068	0.36	67.84	61.61	0.09

HEC-RAS Plan: Prop River: RIVER-2 Reach: Reach-1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach-1	28.1*	Check	16.91	158.38	160.63		160.63	0.000048	0.38	95.76	65.71	0.08
Reach-1	28.1*	Regional	17.66	158.38	160.70		160.70	0.000045	0.38	100.42	65.71	0.08
Reach-1	28.1*	100yr	13.01	158.38	160.24		160.24	0.000068	0.40	70.09	64.25	0.10
Reach-1	28.1*	50yr	11.72	158.38	160.10		160.10	0.000078	0.40	61.52	61.01	0.10
Reach-1	28.07*	Check	16.91	158.26	160.63		160.63	0.000052	0.41	90.00	66.04	0.09
Reach-1	28.07*	Regional	17.66	158.26	160.70		160.70	0.000050	0.41	94.75	68.11	0.09
Reach-1	28.07*	100yr	13.01	158.26	160.24		160.24	0.000065	0.40	66.52	55.96	0.09
Reach-1	28.07*	50yr	11.72	158.26	160.10		160.10	0.000070	0.39	59.09	52.61	0.10
Reach-1	28.04*	Check	17.23	158.13	160.63	158.82	160.63	0.000047	0.40	88.44	55.46	0.08
Reach-1	28.04*	Regional	17.99	158.13	160.70	158.84	160.70	0.000046	0.40	92.43	57.20	0.08
Reach-1	28.04*	100yr	13.25	158.13	160.24	158.75	160.24	0.000059	0.39	67.27	53.21	0.09
Reach-1	28.04*	50yr	11.94	158.13	160.10	158.72	160.10	0.000065	0.39	60.02	52.59	0.09
Reach-1	27.92		Culvert									
Reach-1	27.747*	Check	17.23	158.02	159.21		159.31	0.002789	1.59	17.00	30.53	0.55
Reach-1	27.747*	Regional	17.99	158.02	159.22		159.33	0.002812	1.62	17.53	30.84	0.55
Reach-1	27.747*	100yr	13.25	158.02	159.11		159.20	0.002594	1.42	14.16	28.47	0.52
Reach-1	27.747*	50yr	11.94	158.02	159.07		159.15	0.002608	1.37	12.99	27.54	0.51
Reach-1	27.47*	Check	17.23	157.92	158.88	158.88	159.12	0.009285	2.32	10.90	26.29	0.94
Reach-1	27.47*	Regional	17.99	157.92	158.90	158.90	159.14	0.009215	2.35	11.31	26.55	0.94
Reach-1	27.47*	100yr	13.25	157.92	158.78	158.78	159.00	0.010521	2.20	8.41	23.98	0.97
Reach-1	27.47*	50yr	11.94	157.92	158.76	158.75	158.96	0.010244	2.10	7.81	22.81	0.95
Reach-1	27.23*	Check	17.23	157.82	158.80	158.78	159.00	0.008323	2.19	11.92	26.80	0.89
Reach-1	27.23*	Regional	17.99	157.82	158.82	158.79	159.02	0.008192	2.22	12.37	26.97	0.89
Reach-1	27.23*	100yr	13.25	157.82	158.71	158.70	158.89	0.009412	2.08	9.38	25.78	0.92
Reach-1	27.23*	50yr	11.94	157.82	158.67	158.67	158.85	0.009765	2.03	8.55	25.35	0.93
Reach-1	27	Check	17.23	157.72	158.79		158.92	0.004977	1.81	14.88	27.56	0.70
Reach-1	27	Regional	17.99	157.72	158.81		158.94	0.004949	1.83	15.36	27.71	0.70
Reach-1	27	100yr	13.25	157.72	158.69		158.80	0.005305	1.68	12.14	26.71	0.70
Reach-1	27	50yr	11.94	157.72	158.66		158.76	0.005412	1.63	11.21	26.42	0.70
Reach-1	26.92*	Check	17.23	157.65	158.72		158.87	0.005482	1.94	14.23	27.58	0.73
Reach-1	26.92*	Regional	17.99	157.65	158.74		158.89	0.005426	1.96	14.73	27.76	0.73
Reach-1	26.92*	100yr	13.25	157.65	158.60		158.74	0.006601	1.88	10.99	26.29	0.78
Reach-1	26.92*	50yr	11.94	157.65	158.56		158.70	0.007032	1.85	9.93	25.67	0.80
Reach-1	26.84*	Check	17.23	157.58	158.60	158.51	158.80	0.007956	2.26	12.19	25.94	0.88
Reach-1	26.84*	Regional	17.99	157.58	158.62	158.53	158.82	0.007753	2.28	12.73	26.33	0.87
Reach-1	26.84*	100yr	13.25	157.58	158.50	158.43	158.67	0.007997	2.05	9.88	22.85	0.86
Reach-1	26.84*	50yr	11.94	157.58	158.47		158.62	0.007982	1.97	9.15	22.09	0.85
Reach-1	26.76*	Check	17.23	157.51	158.52	158.45	158.72	0.008001	2.30	11.99	23.07	0.88
Reach-1	26.76*	Regional	17.99	157.51	158.54	158.46	158.74	0.008007	2.34	12.38	23.40	0.89
Reach-1	26.76*	100yr	13.25	157.51	158.42	158.36	158.59	0.008028	2.09	9.88	21.46	0.86
Reach-1	26.76*	50yr	11.94	157.51	158.39	158.33	158.55	0.008083	2.01	9.16	21.03	0.86
Reach-1	26.68*	Check	17.23	157.44	158.45		158.64	0.007887	2.32	12.22	22.41	0.88
Reach-1	26.68*	Regional	17.99	157.44	158.46	158.38	158.66	0.007894	2.36	12.60	22.66	0.88
Reach-1	26.68*	100yr	13.25	157.44	158.35		158.51	0.008101	2.13	10.05	21.27	0.87
Reach-1	26.68*	50yr	11.94	157.44	158.31		158.47	0.008142	2.05	9.32	20.86	0.86
Reach-1	26.6*	Check	17.23	157.37	158.36	158.28	158.56	0.008336	2.41	12.32	22.73	0.91
Reach-1	26.6*	Regional	17.99	157.37	158.38	158.30	158.59	0.008301	2.45	12.73	23.00	0.91
Reach-1	26.6*	100yr	13.25	157.37	158.27		158.43	0.008285	2.19	10.22	21.30	0.88
Reach-1	26.6*	50yr	11.94	157.37	158.23		158.39	0.008237	2.10	9.51	20.84	0.87
Reach-1	26.5*	Check	17.23	157.30	158.28	158.20	158.48	0.008846	2.50	12.51	23.46	0.93
Reach-1	26.5*	Regional	17.99	157.30	158.29	158.22	158.50	0.008919	2.54	12.88	23.85	0.94
Reach-1	26.5*	100yr	13.25	157.30	158.19		158.35	0.008558	2.25	10.45	21.81	0.90
Reach-1	26.5*	50yr	11.94	157.30	158.15		158.31	0.008449	2.16	9.74	21.29	0.88
Reach-1	26.4*	Check	17.23	157.23	158.18	158.12	158.39	0.009938	2.63	12.59	25.02	0.99
Reach-1	26.4*	Regional	17.99	157.23	158.19	158.14	158.41	0.010074	2.69	12.95	25.42	1.00
Reach-1	26.4*	100yr	13.25	157.23	158.10		158.27	0.009075	2.33	10.70	23.00	0.93
Reach-1	26.4*	50yr	11.94	157.23	158.07		158.22	0.008814	2.23	10.02	22.27	0.90
Reach-1	26.3*	Check	17.23	157.16	158.08	158.04	158.29	0.011135	2.76	12.90	27.23	1.04
Reach-1	26.3*	Regional	17.99	157.16	158.09	158.06	158.31	0.011254	2.81	13.27	27.47	1.05
Reach-1	26.3*	100yr	13.25	157.16	158.02	157.95	158.18	0.009360	2.39	11.28	25.56	0.94
Reach-1	26.3*	50yr	11.94	157.16	157.99	157.91	158.14	0.008990	2.27	10.59	24.91	0.91

HEC-RAS Plan: Prop River: RIVER-2 Reach: Reach-1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach-1	26.2*	Check	17.23	157.08	157.97	157.95	158.17	0.013030	2.92	13.07	28.40	1.11
Reach-1	26.2*	Regional	17.99	157.08	157.98	157.97	158.19	0.012850	2.94	13.55	28.54	1.11
Reach-1	26.2*	100yr	13.25	157.08	157.87	157.87	158.06	0.014212	2.77	10.43	27.07	1.14
Reach-1	26.2*	50yr	11.94	157.08	157.84	157.84	158.02	0.014475	2.69	9.58	26.17	1.14
Reach-1	26.1603*	Check	17.23	156.87	158.06		158.08	0.002104	1.47	28.18	33.83	0.45
Reach-1	26.1603*	Regional	17.99	156.87	158.08		158.10	0.002160	1.51	28.76	33.99	0.46
Reach-1	26.1603*	100yr	13.25	156.87	157.96		157.98	0.001787	1.28	25.00	32.99	0.41
Reach-1	26.1603*	50yr	11.94	156.87	157.93		157.95	0.001672	1.21	23.86	32.70	0.40
Reach-1	26.16*	Check	17.23	156.94	158.03		158.08	0.003506	1.82	22.80	31.89	0.60
Reach-1	26.16*	Regional	17.99	156.94	158.05		158.10	0.003577	1.86	23.32	32.03	0.60
Reach-1	26.16*	100yr	13.25	156.94	157.94		157.98	0.003098	1.60	19.95	31.10	0.55
Reach-1	26.16*	50yr	11.94	156.94	157.91		157.94	0.002947	1.52	18.93	30.82	0.53
Reach-1	26.15*	Check	17.23	157.01	157.94		158.06	0.008922	2.55	15.85	29.63	0.93
Reach-1	26.15*	Regional	17.99	157.01	157.95		158.08	0.009026	2.59	16.26	29.73	0.94
Reach-1	26.15*	100yr	13.25	157.01	157.86	157.76	157.96	0.008366	2.29	13.55	29.08	0.88
Reach-1	26.15*	50yr	11.94	157.01	157.83		157.93	0.008184	2.20	12.71	28.87	0.87
Reach-1	26	Check	17.23	156.80	157.54		157.60	0.014545	2.06	15.69	31.11	0.80
Reach-1	26	Regional	17.99	156.80	157.55		157.62	0.014437	2.08	16.16	31.24	0.80
Reach-1	26	100yr	13.25	156.80	157.44	157.29	157.50	0.016878	2.00	12.69	30.41	0.84
Reach-1	26	50yr	11.94	156.80	157.47		157.51	0.010740	1.66	13.69	30.62	0.68

HEC-RAS Plan: Prop River: River 5 Reach: Reach-1

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach-1	44	Check	1.09	164.41	164.75	164.60	164.75	0.000782	0.33	4.59	29.11	0.23
Reach-1	44	Regional	0.86	164.41	164.72	164.59	164.72	0.000757	0.30	3.81	25.52	0.22
Reach-1	44	100yr	0.84	164.41	164.72	164.59	164.72	0.000727	0.30	3.80	25.47	0.22
Reach-1	44	50yr	0.74	164.41	164.70	164.58	164.71	0.000732	0.29	3.43	24.47	0.22
Reach-1	43.8	Check	1.09	164.43	164.58	164.58	164.63	0.019800	0.96	1.13	12.10	1.01
Reach-1	43.8	Regional	0.86	164.43	164.57	164.56	164.61	0.015543	0.83	1.04	11.67	0.89
Reach-1	43.8	100yr	0.84	164.43	164.56	164.56	164.61	0.020555	0.91	0.93	11.16	1.01
Reach-1	43.8	50yr	0.74	164.43	164.56	164.56	164.60	0.015234	0.79	0.94	11.23	0.87
Reach-1	43.6	Check	1.09	163.65	163.89	163.85	163.93	0.007345	0.82	1.47	10.67	0.67
Reach-1	43.6	Regional	0.86	163.65	163.84	163.84	163.89	0.018516	1.03	0.90	8.99	1.00
Reach-1	43.6	100yr	0.84	163.65	163.83	163.83	163.89	0.018549	1.02	0.88	8.95	1.00
Reach-1	43.6	50yr	0.74	163.65	163.82	163.82	163.87	0.019099	0.99	0.80	8.71	1.00
Reach-1	43		Culvert									
Reach-1	42.6	Check	1.09	163.26	163.62		163.65	0.004438	0.79	1.37	6.33	0.55
Reach-1	42.6	Regional	0.86	163.26	163.55		163.59	0.005856	0.86	1.00	5.00	0.62
Reach-1	42.6	100yr	0.84	163.26	163.54		163.58	0.006109	0.87	0.97	4.95	0.63
Reach-1	42.6	50yr	0.74	163.26	163.51		163.55	0.007729	0.91	0.81	4.66	0.69
Reach-1	42.5	Check	1.09	163.14	163.62	163.35	163.63	0.000392	0.31	4.60	23.23	0.17
Reach-1	42.5	Regional	0.86	163.14	163.55	163.33	163.55	0.000578	0.33	3.10	18.30	0.20
Reach-1	42.5	100yr	0.84	163.14	163.54	163.32	163.55	0.000603	0.33	2.98	18.03	0.21
Reach-1	42.5	50yr	0.74	163.14	163.51	163.31	163.51	0.000743	0.35	2.37	15.45	0.23
Reach-1	42.2		Culvert									
Reach-1	42	Check	1.09	162.86	163.03		163.05	0.005304	0.65	2.18	17.31	0.56
Reach-1	42	Regional	0.86	162.86	163.01		163.03	0.005259	0.59	1.87	16.89	0.54
Reach-1	42	100yr	0.84	162.86	163.01		163.03	0.005235	0.58	1.85	16.84	0.54
Reach-1	42	50yr	0.74	162.86	163.00		163.02	0.005257	0.55	1.70	16.56	0.53
Reach-1	41	Check	1.09	162.23	162.42	162.42	162.48	0.018352	1.07	1.02	8.95	1.00
Reach-1	41	Regional	0.86	162.23	162.40	162.40	162.45	0.019147	1.01	0.85	8.30	1.01
Reach-1	41	100yr	0.84	162.23	162.40	162.40	162.45	0.019273	1.01	0.84	8.23	1.01
Reach-1	41	50yr	0.74	162.23	162.39	162.39	162.44	0.019538	0.97	0.76	7.93	1.01
Reach-1	40.7	Check	1.67	161.70	162.22	161.93	162.22	0.000429	0.33	5.11	16.07	0.18
Reach-1	40.7	Regional	1.20	161.70	162.07	161.89	162.08	0.001001	0.40	3.01	12.90	0.26
Reach-1	40.7	100yr	1.28	161.70	162.10	161.90	162.10	0.000841	0.38	3.35	13.47	0.24
Reach-1	40.7	50yr	1.15	161.70	162.05	161.89	162.06	0.001130	0.41	2.79	12.53	0.28
Reach-1	40.6		Culvert									
Reach-1	40.4	Check	1.67	161.04	161.35	161.35	161.45	0.016050	1.33	1.25	7.02	1.01
Reach-1	40.4	Regional	1.20	161.04	161.31	161.31	161.39	0.016863	1.24	0.97	6.35	1.01
Reach-1	40.4	100yr	1.28	161.04	161.32	161.32	161.40	0.016659	1.25	1.02	6.47	1.01
Reach-1	40.4	50yr	1.15	161.04	161.31	161.31	161.38	0.016869	1.22	0.94	6.27	1.00
Reach-1	40	Check	1.67	159.75	160.02	160.11	160.28	0.056329	2.28	0.73	4.69	1.84
Reach-1	40	Regional	1.20	159.75	159.98	160.06	160.21	0.054974	2.08	0.58	4.15	1.79
Reach-1	40	100yr	1.28	159.75	159.99	160.07	160.22	0.055604	2.13	0.60	4.24	1.80
Reach-1	40	50yr	1.15	159.75	159.98	160.05	160.20	0.055231	2.07	0.56	4.08	1.78
Reach-1	39	Check	1.67	158.75	158.96	159.02	159.16	0.047167	1.98	0.84	5.89	1.67
Reach-1	39	Regional	1.20	158.75	158.98	158.98	159.06	0.016721	1.24	0.96	6.18	1.01
Reach-1	39	100yr	1.28	158.75	158.89	158.99	159.26	0.144020	2.67	0.48	4.93	2.73
Reach-1	39	50yr	1.15	158.75	158.98	158.98	159.05	0.016686	1.23	0.94	6.11	1.00
Reach-1	38	Check	1.67	157.53	157.74	157.74	157.82	0.018658	1.26	1.51	10.40	1.05
Reach-1	38	Regional	1.20	157.53	157.69	157.71	157.78	0.037524	1.39	0.98	9.68	1.40
Reach-1	38	100yr	1.28	157.53	157.72	157.72	157.78	0.019734	1.16	1.25	10.06	1.05
Reach-1	38	50yr	1.15	157.53	157.69	157.71	157.78	0.037739	1.37	0.95	9.64	1.40

HEC-RAS Plan: Prop River: RIVER-2 Reach: Reach-1

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach-1	22	Check	5.10	170.05	170.51	170.47	170.62	0.007262	1.63	5.43	20.94	0.79
Reach-1	22	Regional	3.90	170.05	170.46	170.41	170.55	0.007087	1.48	4.37	18.81	0.76
Reach-1	22	100yr	3.92	170.05	170.46	170.41	170.55	0.007094	1.48	4.39	18.85	0.76
Reach-1	22	50yr	3.54	170.05	170.44	170.39	170.52	0.006986	1.42	4.05	18.08	0.75
Reach-1	21	Check	5.10	169.50	169.88	169.88	170.03	0.011648	1.89	3.98	15.01	0.98
Reach-1	21	Regional	3.90	169.50	169.82	169.82	169.96	0.012316	1.74	3.17	13.64	0.98
Reach-1	21	100yr	3.92	169.50	169.82	169.82	169.96	0.012297	1.74	3.18	13.67	0.98
Reach-1	21	50yr	3.54	169.50	169.80	169.80	169.93	0.012557	1.69	2.92	13.21	0.98
Reach-1	20.83	Check	5.10	168.81	169.33	169.15	169.35	0.001792	0.76	8.96	34.77	0.39
Reach-1	20.83	Regional	3.90	168.81	169.26	169.12	169.29	0.002038	0.72	6.80	30.23	0.40
Reach-1	20.83	100yr	3.92	168.81	169.26	169.12	169.29	0.002035	0.72	6.83	30.30	0.40
Reach-1	20.83	50yr	3.54	168.81	169.24	169.11	169.26	0.002094	0.70	6.22	28.80	0.40
Reach-1	20.79	Check	5.10	168.68	169.26		169.30	0.002210	0.84	7.08	21.20	0.43
Reach-1	20.79	Regional	3.90	168.68	169.19	169.02	169.22	0.002297	0.79	5.67	19.30	0.43
Reach-1	20.79	100yr	3.92	168.68	169.19	169.02	169.22	0.002300	0.79	5.69	19.33	0.43
Reach-1	20.79	50yr	3.54	168.68	169.17	169.01	169.20	0.002242	0.76	5.31	18.77	0.42
Reach-1	20.75	Check	5.10	168.62	169.19		169.23	0.002529	0.87	6.74	21.13	0.45
Reach-1	20.75	Regional	3.90	168.62	168.97	168.97	169.08	0.013770	1.45	2.85	14.41	0.97
Reach-1	20.75	100yr	3.92	168.62	168.97	168.97	169.08	0.013761	1.45	2.86	14.44	0.97
Reach-1	20.75	50yr	3.54	168.62	168.96	168.96	169.06	0.014056	1.42	2.63	13.91	0.98
Reach-1	20.7	Check	5.10	167.85	169.20	168.49	169.21	0.000155	0.38	15.44	25.06	0.13
Reach-1	20.7	Regional	3.90	167.85	168.90	168.39	168.91	0.000395	0.45	8.98	18.28	0.19
Reach-1	20.7	100yr	3.92	167.85	168.90	168.39	168.91	0.000388	0.45	9.07	18.37	0.19
Reach-1	20.7	50yr	3.54	167.85	168.80	168.38	168.82	0.000577	0.49	7.36	16.73	0.22
Reach-1	20.65		Culvert									
Reach-1	20.6	Check	5.10	167.36	168.26	168.05	168.32	0.003140	1.12	4.57	9.68	0.52
Reach-1	20.6	Regional	3.90	167.36	168.17	167.97	168.22	0.003216	1.05	3.71	8.75	0.51
Reach-1	20.6	100yr	3.92	167.36	168.17	167.98	168.22	0.003218	1.05	3.72	8.76	0.52
Reach-1	20.6	50yr	3.54	167.36	168.14	167.95	168.19	0.003230	1.02	3.45	8.48	0.51
Reach-1	20.4	Check	5.10	167.27	167.86	167.86	168.07	0.012564	2.01	2.54	6.25	1.01
Reach-1	20.4	Regional	3.90	167.27	167.78	167.78	167.96	0.013061	1.88	2.07	5.81	1.01
Reach-1	20.4	100yr	3.92	167.27	167.78	167.78	167.97	0.013030	1.89	2.08	5.82	1.01
Reach-1	20.4	50yr	3.54	167.27	167.76	167.76	167.93	0.013205	1.84	1.93	5.66	1.01
Reach-1	20.2	Check	6.22	165.81	167.29	166.54	167.29	0.000171	0.41	18.61	29.96	0.14
Reach-1	20.2	Regional	4.70	165.81	166.99	166.47	167.00	0.000376	0.48	10.71	22.90	0.19
Reach-1	20.2	100yr	4.79	165.81	167.01	166.47	167.02	0.000357	0.47	11.10	23.47	0.19
Reach-1	20.2	50yr	4.32	165.81	166.92	166.45	166.93	0.000480	0.50	9.14	20.42	0.21
Reach-1	20		Culvert									
Reach-1	19.5	Check	6.22	165.60	166.39	166.32	166.49	0.007540	1.39	4.61	18.66	0.77
Reach-1	19.5	Regional	4.70	165.60	166.31		166.41	0.007925	1.33	3.53	11.60	0.77
Reach-1	19.5	100yr	4.79	165.60	166.32		166.41	0.007591	1.32	3.64	11.84	0.76
Reach-1	19.5	50yr	4.32	165.60	166.30		166.38	0.007653	1.29	3.34	11.23	0.76
Reach-1	18.5	Check	6.22	165.27	166.00	165.97	166.10	0.009478	1.41	4.86	22.79	0.84
Reach-1	18.5	Regional	4.70	165.27	165.98	165.91	166.04	0.006944	1.15	4.42	21.23	0.71
Reach-1	18.5	100yr	4.79	165.27	165.97	165.91	166.04	0.007719	1.20	4.31	20.82	0.74
Reach-1	18.5	50yr	4.32	165.27	165.96	165.90	166.02	0.006936	1.12	4.12	20.08	0.70
Reach-1	17.5	Check	6.22	164.21	164.89	164.89	164.99	0.009940	1.40	6.20	50.62	0.85
Reach-1	17.5	Regional	4.70	164.21	164.83	164.83	164.93	0.014389	1.43	3.67	26.71	0.98
Reach-1	17.5	100yr	4.79	164.21	164.85	164.85	164.94	0.012319	1.37	4.03	32.82	0.92
Reach-1	17.5	50yr	4.32	164.21	164.82	164.82	164.92	0.014452	1.38	3.42	22.72	0.98
Reach-1	16.5	Check	6.22	163.87	164.36	164.27	164.42	0.004975	1.14	6.62	22.33	0.63
Reach-1	16.5	Regional	4.70	163.87	164.31		164.36	0.004823	1.02	5.49	21.13	0.60
Reach-1	16.5	100yr	4.79	163.87	164.32	164.23	164.37	0.004836	1.03	5.56	21.20	0.60
Reach-1	16.5	50yr	4.32	163.87	164.30	164.21	164.34	0.004783	0.99	5.19	20.80	0.60
Reach-1	15.5	Check	6.22	163.66	164.30		164.32	0.001085	0.67	17.30	75.04	0.31
Reach-1	15.5	Regional	4.70	163.66	164.24	164.05	164.26	0.001150	0.63	12.90	67.57	0.31
Reach-1	15.5	100yr	4.79	163.66	164.24		164.26	0.001148	0.63	13.15	67.97	0.31
Reach-1	15.5	50yr	4.32	163.66	164.22		164.24	0.001176	0.62	11.74	65.70	0.31
Reach-1	14.5	Check	6.22	163.50	164.00	164.00	164.13	0.013761	1.62	3.93	16.78	1.00
Reach-1	14.5	Regional	4.70	163.50	163.95	163.95	164.06	0.014833	1.50	3.14	14.94	1.01
Reach-1	14.5	100yr	4.79	163.50	163.95	163.95	164.07	0.014718	1.51	3.19	15.06	1.01

HEC-RAS Plan: Prop River: RIVER-2 Reach: Reach-1 (Continued)

Reach	River Sta	Profile	Q Total (m ³ /s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m ²)	Top Width (m)	Froude # Chl
Reach-1	14.5	50yr	4.32	163.50	163.94	163.93	164.05	0.013937	1.43	3.03	14.66	0.97
Reach-1	13.5	Check	6.22	163.43	163.85	163.65	163.86	0.001115	0.54	20.51	65.82	0.30
Reach-1	13.5	Regional	4.70	163.43	163.83	163.63	163.84	0.000809	0.44	19.01	64.95	0.25
Reach-1	13.5	100yr	4.79	163.43	163.79	163.63	163.80	0.001338	0.52	16.41	63.73	0.31
Reach-1	13.5	50yr	4.32	163.43	163.77		163.78	0.001459	0.51	14.96	62.86	0.32

HEC-RAS Plan: Prop River: 16MileMain Reach: Reach3

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach3	3070.592	CheckFlo	12.88	186.46	186.93	186.93	187.08	0.011629	1.98	9.50	33.99	0.99
Reach3	3070.592	Reg	13.17	186.46	186.93	186.93	187.09	0.011579	1.99	9.68	34.22	0.99
Reach3	3070.592	100year	9.91	186.46	186.86	186.86	187.01	0.013027	1.87	7.43	29.64	1.02
Reach3	3070.592	50year	8.92	186.46	186.84	186.84	186.98	0.013277	1.81	6.83	28.23	1.02
Reach3	3000	CheckFlo	12.88	183.89	184.06	184.21	184.65	0.353363	4.20	3.93	27.84	4.29
Reach3	3000	Reg	13.17	183.89	184.06	184.21	184.66	0.354615	4.24	3.98	27.97	4.31
Reach3	3000	100year	9.91	183.89	184.05	184.16	184.46	0.268784	3.49	3.62	27.06	3.70
Reach3	3000	50year	8.92	183.89	184.04	184.14	184.41	0.260815	3.33	3.41	26.43	3.62
Reach3	2900	CheckFlo	12.88	181.71	182.05	182.05	182.18	0.018642	2.01	10.56	44.58	1.19
Reach3	2900	Reg	13.17	181.71	182.06	182.06	182.19	0.018552	2.03	10.75	44.83	1.19
Reach3	2900	100year	9.91	181.71	182.01	182.01	182.12	0.019991	1.86	8.59	41.80	1.19
Reach3	2900	50year	8.92	181.71	181.99	181.99	182.10	0.020326	1.80	7.94	40.85	1.19
Reach3	2800	CheckFlo	12.88	180.00	180.39	180.40	180.53	0.015458	2.01	11.01	50.33	1.10
Reach3	2800	Reg	13.17	180.00	180.39	180.41	180.53	0.015523	2.02	11.18	50.62	1.11
Reach3	2800	100year	9.91	180.00	180.35	180.36	180.47	0.014491	1.80	9.24	47.22	1.05
Reach3	2800	50year	8.92	180.00	180.34	180.35	180.45	0.014271	1.73	8.58	46.00	1.03
Reach3	2704.659	CheckFlo	12.88	178.00	178.36	178.44	178.65	0.025646	2.39	6.07	23.21	1.39
Reach3	2704.659	Reg	13.17	178.00	178.37	178.44	178.65	0.025426	2.40	6.18	23.36	1.39
Reach3	2704.659	100year	9.91	178.00	179.10	178.38	179.11	0.000196	0.48	32.46	48.05	0.15
Reach3	2704.659	50year	8.92	178.00	178.93	178.36	178.94	0.000309	0.53	24.61	42.65	0.18
Reach3	2606.100	CheckFlo	12.88	176.93	178.48	177.39	178.49	0.000075	0.38	97.89	125.25	0.10
Reach3	2606.100	Reg	13.17	176.93	178.49	177.40	178.49	0.000078	0.39	98.12	125.43	0.10
Reach3	2606.100	100year	9.91	176.93	179.11		179.11	0.000010	0.17	187.45	162.83	0.04
Reach3	2606.100	50year	8.92	176.93	178.93		178.94	0.000011	0.18	160.37	152.14	0.04
Reach3	2595.318	CheckFlo	12.88	176.98	178.48	178.47	178.49	0.000039	0.27	162.47	204.65	0.07
Reach3	2595.318	Reg	13.17	176.98	178.49	178.47	178.49	0.000041	0.27	162.85	204.67	0.07
Reach3	2595.318	100year	9.91	176.98	179.11	178.47	179.11	0.000004	0.11	294.57	219.09	0.03
Reach3	2595.318	50year	8.92	176.98	178.93	178.47	178.93	0.000005	0.12	256.97	216.71	0.03
Reach3	2585.286		Culvert									
Reach3	2575.266	CheckFlo	12.88	176.51	178.47	178.47	178.47	0.000018	0.19	226.62	208.52	0.05
Reach3	2575.266	Reg	13.17	176.51	178.47	178.47	178.47	0.000018	0.20	226.62	208.52	0.05
Reach3	2575.266	100year	9.91	176.51	178.26	178.26	179.11	0.007458	4.06	2.44	201.67	1.00
Reach3	2575.266	50year	8.92	176.51	178.15	178.15	178.93	0.007652	3.93	2.27	197.95	1.00
Reach3	2565.135	CheckFlo	12.88	176.33	176.54	176.75	177.75	0.247799	5.22	4.10	46.47	3.97
Reach3	2565.135	Reg	13.17	176.33	176.54	176.75	177.75	0.242757	5.23	4.25	47.63	3.94
Reach3	2565.135	100year	9.91	176.33	176.48	176.69	178.29	0.585952	6.22	2.13	25.22	5.73
Reach3	2565.135	50year	8.92	176.33	176.48	176.67	178.15	0.589766	5.99	1.96	22.84	5.68
Reach3	2500	CheckFlo	12.88	175.39	175.79	175.76	175.88	0.011781	1.76	18.31	76.84	0.96
Reach3	2500	Reg	13.17	175.39	175.80	175.77	175.89	0.011761	1.77	18.63	77.27	0.97
Reach3	2500	100year	9.91	175.39	175.75	175.72	175.83	0.011930	1.61	15.00	72.20	0.95
Reach3	2500	50year	8.92	175.39	175.73	175.71	175.81	0.012022	1.56	13.83	70.50	0.94
Reach3	2400	CheckFlo	12.88	174.00	174.59	174.59	174.79	0.010320	2.06	9.07	30.04	0.95
Reach3	2400	Reg	13.17	174.00	174.60	174.60	174.80	0.010283	2.08	9.26	30.36	0.96
Reach3	2400	100year	9.91	174.00	174.52	174.52	174.69	0.010959	1.91	7.06	26.53	0.96
Reach3	2400	50year	8.92	174.00	174.50	174.50	174.66	0.011146	1.84	6.41	25.38	0.96
Reach3	2300	CheckFlo	12.88	173.00	173.41	173.44	173.57	0.014692	2.08	10.41	48.25	1.09
Reach3	2300	Reg	13.17	173.00	173.41	173.44	173.58	0.014826	2.10	10.56	48.55	1.10
Reach3	2300	100year	9.91	173.00	173.38	173.39	173.50	0.012832	1.82	8.85	44.83	1.00
Reach3	2300	50year	8.92	173.00	173.36	173.37	173.48	0.012328	1.74	8.24	43.38	0.98
Reach3	2200	CheckFlo	12.88	172.21	172.71	172.52	172.74	0.004634	1.04	20.50	67.19	0.60
Reach3	2200	Reg	13.17	172.21	172.71	172.53	172.74	0.004656	1.05	20.79	67.62	0.60
Reach3	2200	100year	9.91	172.21	172.63	172.48	172.65	0.006407	0.99	15.27	58.77	0.67
Reach3	2200	50year	8.92	172.21	172.60	172.46	172.63	0.006607	0.94	14.07	56.54	0.66
Reach3	2100	CheckFlo	12.88	171.50	171.90	171.87	172.01	0.011755	1.83	11.25	41.30	0.97
Reach3	2100	Reg	13.17	171.50	171.90	171.88	172.02	0.011656	1.84	11.47	41.59	0.97
Reach3	2100	100year	9.91	171.50	171.90		171.97	0.006939	1.41	11.26	41.31	0.75
Reach3	2100	50year	8.92	171.50	171.88		171.94	0.006710	1.34	10.57	40.40	0.73
Reach3	2000	CheckFlo	12.88	170.50	171.05	170.98	171.16	0.006780	1.66	11.68	34.50	0.77
Reach3	2000	Reg	13.17	170.50	171.05	170.98	171.16	0.006828	1.67	11.84	34.63	0.78
Reach3	2000	100year	9.91	170.50	170.92	170.92	171.06	0.012663	1.84	7.64	30.30	1.00
Reach3	2000	50year	8.92	170.50	170.90	170.90	171.03	0.013465	1.81	6.89	29.05	1.02

HEC-RAS Plan: Prop River: 16MileMain Reach: Reach3 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach3	1900	CheckFlo	12.88	169.76	170.22	170.22	170.35	0.010694	1.88	11.44	47.11	0.95
Reach3	1900	Reg	13.17	169.76	170.22	170.22	170.35	0.010648	1.89	11.67	47.49	0.95
Reach3	1900	100year	9.91	169.76	170.24	170.17	170.31	0.005016	1.34	12.57	48.98	0.65
Reach3	1900	50year	8.92	169.76	170.22	170.15	170.28	0.004868	1.28	11.68	47.52	0.64
Reach3	1800	CheckFlo	12.88	168.92	169.54	169.10	169.55	0.000429	0.47	54.86	120.39	0.20
Reach3	1800	Reg	13.17	168.92	169.58	169.10	169.59	0.000351	0.45	59.75	123.75	0.18
Reach3	1800	100year	9.91	168.92	169.07	169.07	169.15	0.056624	1.70	8.90	70.90	1.72
Reach3	1800	50year	8.92	168.92	169.06	169.06	169.13	0.060888	1.63	8.13	69.53	1.75
Reach3	1700	CheckFlo	12.88	168.00	169.54		169.54	0.000023	0.21	154.65	225.62	0.05
Reach3	1700	Reg	13.17	168.00	169.58		169.58	0.000021	0.21	164.05	239.23	0.05
Reach3	1700	100year	9.91	168.00	169.04	168.45	169.04	0.000094	0.32	72.71	137.55	0.10
Reach3	1700	50year	8.92	168.00	168.88	168.41	168.88	0.000183	0.40	51.85	125.64	0.14
Reach3	1628.116	CheckFlo	12.88	167.08	169.54		169.54	0.000002	0.08	436.04	485.87	0.02
Reach3	1628.116	Reg	13.17	167.08	169.58		169.58	0.000002	0.08	455.76	492.39	0.02
Reach3	1628.116	100year	9.91	167.08	169.04		169.04	0.000004	0.10	267.01	310.83	0.02
Reach3	1628.116	50year	8.92	167.08	168.88		168.88	0.000005	0.10	221.76	276.00	0.03
Reach3	1592.763	CheckFlo	12.88	166.74	169.53	167.44	169.53	0.000045	0.42	30.84	457.37	0.08
Reach3	1592.763	Reg	13.17	166.74	169.57	167.45	169.58	0.000044	0.42	31.32	471.91	0.08
Reach3	1592.763	100year	9.91	166.74	169.03	167.35	169.03	0.000054	0.40	24.86	360.85	0.09
Reach3	1592.763	50year	8.92	166.74	168.87	167.32	168.88	0.000057	0.39	22.98	330.94	0.09
Reach3	1542.232		Culvert									
Reach3	1487.831	CheckFlo	12.88	166.18	168.55	166.87	168.56	0.000077	0.49	26.44	175.57	0.11
Reach3	1487.831	Reg	13.17	166.18	168.55	166.88	168.56	0.000080	0.50	26.40	175.43	0.11
Reach3	1487.831	100year	9.91	166.18	168.21	166.79	168.22	0.000080	0.45	22.27	146.18	0.11
Reach3	1487.831	50year	8.92	166.18	168.09	166.76	168.10	0.000082	0.43	20.82	134.42	0.10
Reach3	1455.612	CheckFlo	14.45	166.29	168.55	166.88	168.55	0.000016	0.21	151.95	122.99	0.05
Reach3	1455.612	Reg	14.42	166.29	168.55	166.88	168.55	0.000016	0.21	151.58	122.92	0.05
Reach3	1455.612	100year	11.12	166.29	168.21	166.83	168.21	0.000019	0.21	113.49	103.31	0.05
Reach3	1455.612	50year	10.03	166.29	168.09	166.81	168.09	0.000021	0.21	101.50	98.40	0.05
Reach3	1442.426		Culvert									
Reach3	1395.467	CheckFlo	14.45	166.13	166.89		166.96	0.004804	1.52	19.52	69.73	0.66
Reach3	1395.467	Reg	14.42	166.13	166.89		166.96	0.004816	1.52	19.48	69.71	0.66
Reach3	1395.467	100year	11.12	166.13	166.81		166.89	0.005470	1.47	14.59	60.13	0.69
Reach3	1395.467	50year	10.03	166.13	166.79		166.86	0.005742	1.45	13.08	55.26	0.70
Reach3	1394.467	CheckFlo	14.45	166.00	166.84		166.88	0.001938	1.03	25.28	63.47	0.43
Reach3	1394.467	Reg	14.42	166.00	166.84		166.87	0.001939	1.03	25.24	63.37	0.43
Reach3	1394.467	100year	11.12	166.00	166.77		166.79	0.002032	0.96	20.53	58.75	0.43
Reach3	1394.467	50year	10.03	166.00	166.74		166.77	0.002064	0.93	18.92	57.64	0.43
Reach3	1300	CheckFlo	14.45	165.55	166.34	166.34	166.54	0.009737	2.10	9.08	28.82	0.94
Reach3	1300	Reg	14.42	165.55	166.34	166.34	166.54	0.009733	2.10	9.07	28.79	0.94
Reach3	1300	100year	11.12	165.55	166.26	166.26	166.44	0.010444	1.95	7.06	24.62	0.94
Reach3	1300	50year	10.03	165.55	166.24	166.24	166.41	0.010790	1.90	6.40	23.09	0.95
Reach3	1200	CheckFlo	14.45	164.50	165.08	165.13	165.33	0.015357	2.39	8.03	27.52	1.15
Reach3	1200	Reg	14.42	164.50	165.08	165.13	165.33	0.015397	2.39	8.01	27.50	1.15
Reach3	1200	100year	11.12	164.50	165.03	165.07	165.24	0.014294	2.12	6.71	25.60	1.09
Reach3	1200	50year	10.03	164.50	165.01	165.04	165.20	0.013774	2.02	6.27	24.81	1.06
Reach3	1109.080	CheckFlo	14.45	163.50	163.98	163.98	164.16	0.012851	2.09	9.00	26.17	1.04
Reach3	1109.080	Reg	14.42	163.50	163.98	163.98	164.16	0.012857	2.08	8.98	26.16	1.04
Reach3	1109.080	100year	11.12	163.50	163.92	163.92	164.08	0.013434	1.91	7.42	24.93	1.03
Reach3	1109.080	50year	10.03	163.50	163.90	163.90	164.04	0.013833	1.86	6.86	24.48	1.04
Reach3	1061.991	CheckFlo	14.45	162.69	163.38	163.35	163.58	0.008728	2.00	7.86	18.67	0.89
Reach3	1061.991	Reg	14.42	162.69	163.38	163.35	163.58	0.008712	1.99	7.85	18.66	0.89
Reach3	1061.991	100year	11.12	162.69	163.31	163.27	163.47	0.008197	1.79	6.61	17.46	0.84
Reach3	1061.991	50year	10.03	162.69	163.29	163.24	163.43	0.007982	1.71	6.18	16.92	0.83
Reach3	1044.043	CheckFlo	14.45	162.15	162.71	162.71	162.91	0.012232	2.01	7.21	17.87	1.01
Reach3	1044.043	Reg	14.42	162.15	162.71	162.71	162.91	0.012252	2.01	7.19	17.86	1.01
Reach3	1044.043	100year	11.12	162.15	162.64	162.64	162.81	0.012838	1.87	5.96	17.07	1.01
Reach3	1044.043	50year	10.03	162.15	162.61	162.61	162.78	0.013119	1.81	5.53	16.79	1.01
Reach3	1021.237	CheckFlo	14.45	161.47	161.97	162.11	162.44	0.036262	3.04	4.76	14.11	1.67
Reach3	1021.237	Reg	14.42	161.47	161.97	162.11	162.44	0.036294	3.04	4.75	14.11	1.67
Reach3	1021.237	100year	11.12	161.47	161.91	162.03	162.32	0.039152	2.83	3.93	13.80	1.69

HEC-RAS Plan: Prop River: 16MileMain Reach: Reach3 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach3	1021.237	50year	10.03	161.47	161.89	162.00	162.27	0.040116	2.74	3.66	13.69	1.69
Reach3	996.9519	CheckFlo	14.45	160.39	161.78	161.78	162.17	0.010963	2.76	5.23	6.74	1.00
Reach3	996.9519	Reg	14.42	160.39	161.78	161.78	162.17	0.010962	2.76	5.22	6.74	1.00
Reach3	996.9519	100year	11.12	160.39	161.62	161.62	161.97	0.011522	2.65	4.20	5.99	1.01
Reach3	996.9519	50year	10.03	160.39	161.56	161.56	161.90	0.011698	2.59	3.87	5.75	1.01
Reach3	951.1452	CheckFlo	14.45	159.03	159.62	160.00	161.01	0.078595	5.22	2.77	6.26	2.51
Reach3	951.1452	Reg	14.42	159.03	159.62	160.00	161.00	0.078659	5.22	2.76	6.26	2.51
Reach3	951.1452	100year	11.12	159.03	159.53	159.87	160.76	0.085124	4.90	2.27	6.03	2.55
Reach3	951.1452	50year	10.03	159.03	159.51	159.82	160.67	0.087888	4.78	2.10	5.95	2.57
Reach3	900	CheckFlo	14.45	155.64	157.31	157.64	158.36	0.034349	4.53	3.19	3.81	1.58
Reach3	900	Reg	14.42	155.64	157.31	157.64	158.35	0.034343	4.53	3.18	3.81	1.58
Reach3	900	100year	11.12	155.64	157.16	157.44	158.06	0.033712	4.22	2.64	3.47	1.54
Reach3	900	50year	10.03	155.64	157.10	157.37	157.96	0.033474	4.10	2.45	3.34	1.53
Reach3	845.0503	CheckFlo	14.45	151.11	151.55	152.02	154.18	0.247279	7.32	2.19	7.50	4.27
Reach3	845.0503	Reg	14.42	151.11	151.55	152.02	154.17	0.247547	7.31	2.19	7.50	4.27
Reach3	845.0503	100year	11.12	151.11	151.49	151.90	153.82	0.281569	6.88	1.79	7.32	4.42
Reach3	845.0503	50year	10.03	151.11	151.47	151.86	153.69	0.296267	6.71	1.65	7.26	4.48
Reach3	799.9999	CheckFlo	14.45	148.31	148.99	149.27	149.92	0.041414	4.29	3.37	6.11	1.85
Reach3	799.9999	Reg	14.42	148.31	148.98	149.27	149.92	0.041391	4.29	3.36	6.11	1.85
Reach3	799.9999	100year	11.12	148.31	148.91	149.13	149.66	0.038539	3.83	2.90	5.98	1.76
Reach3	799.9999	50year	10.03	148.31	148.88	149.09	149.56	0.037489	3.66	2.74	5.94	1.72
Reach3	700	CheckFlo	14.45	142.65	143.08	143.35	144.12	0.086963	4.53	3.36	11.40	2.56
Reach3	700	Reg	14.42	142.65	143.08	143.35	144.11	0.087006	4.53	3.35	11.40	2.56
Reach3	700	100year	11.12	142.65	143.03	143.26	143.92	0.093793	4.19	2.76	11.33	2.59
Reach3	700	50year	10.03	142.65	143.01	143.23	143.85	0.096905	4.07	2.55	11.31	2.60
Reach3	668.4801	CheckFlo	14.45	140.07	140.53	140.72	141.22	0.088605	4.10	5.86	26.23	2.53
Reach3	668.4801	Reg	14.42	140.07	140.53	140.72	141.21	0.088545	4.09	5.86	26.23	2.53
Reach3	668.4801	100year	11.12	140.07	140.50	140.65	141.04	0.081067	3.62	5.06	26.21	2.38
Reach3	668.4801	50year	10.03	140.07	140.49	140.63	140.99	0.078062	3.46	4.77	26.12	2.32
Reach3	599.9999	CheckFlo	14.45	136.66	137.11	137.22	137.51	0.034543	3.31	7.74	21.40	1.69
Reach3	599.9999	Reg	14.42	136.66	137.11	137.22	137.51	0.034552	3.31	7.73	21.40	1.69
Reach3	599.9999	100year	11.12	136.66	137.04	137.15	137.40	0.036062	3.08	6.41	21.13	1.68
Reach3	599.9999	50year	10.03	136.66	137.02	137.12	137.36	0.036854	3.01	5.93	21.02	1.69
Reach3	547.6624	CheckFlo	14.45	134.78	135.20	135.34	135.66	0.037059	3.16	5.93	21.00	1.72
Reach3	547.6624	Reg	14.42	134.78	135.20	135.34	135.66	0.037055	3.15	5.92	20.98	1.72
Reach3	547.6624	100year	11.12	134.78	135.15	135.26	135.53	0.036420	2.83	4.96	19.75	1.66
Reach3	547.6624	50year	10.03	134.78	135.13	135.23	135.48	0.036020	2.71	4.64	19.31	1.63
Reach3	500.0000	CheckFlo	14.45	133.13	133.58	133.64	133.85	0.035561	2.73	9.06	30.31	1.63
Reach3	500.0000	Reg	14.42	133.13	133.58	133.64	133.84	0.035555	2.73	9.05	30.31	1.63
Reach3	500.0000	100year	11.12	133.13	133.53	133.58	133.76	0.034789	2.50	7.71	29.25	1.58
Reach3	500.0000	50year	10.03	133.13	133.52	133.56	133.73	0.034654	2.43	7.19	28.83	1.57
Reach3	417.1388	CheckFlo	14.45	130.88	131.24	131.27	131.47	0.027533	2.53	10.51	36.85	1.45
Reach3	417.1388	Reg	14.42	130.88	131.24	131.27	131.46	0.027539	2.53	10.49	36.82	1.45
Reach3	417.1388	100year	11.12	130.88	131.19	131.19	131.37	0.028609	2.28	8.66	33.51	1.44
Reach3	417.1388	50year	10.03	130.88	131.17	131.18	131.34	0.028748	2.18	8.10	32.56	1.42
Reach3	400.0000	CheckFlo	14.45	129.95	130.60	130.46	130.66	0.008511	1.40	16.70	39.34	0.81
Reach3	400.0000	Reg	14.42	129.95	130.60	130.46	130.66	0.008511	1.40	16.68	39.31	0.81
Reach3	400.0000	100year	11.12	129.95	130.55	130.35	130.60	0.007205	1.22	14.85	37.14	0.73
Reach3	400.0000	50year	10.03	129.95	130.52	130.33	130.56	0.007445	1.19	13.76	35.95	0.74
Reach3	360.5335	CheckFlo	14.45	129.75	129.85	129.85	129.98	0.078855	1.61	9.26	40.84	1.92
Reach3	360.5335	Reg	14.42	129.75	129.85	129.85	129.98	0.078852	1.60	9.25	40.81	1.92
Reach3	360.5335	100year	11.12	129.75	129.71	129.71	129.91	0.149738	5.62	15.26	40.81	0.00
Reach3	360.5335	50year	10.03	129.75	129.69	129.69	129.87	0.139932	5.33	14.82	40.81	0.00
Reach3	300.0000	CheckFlo	14.45	128.00	128.97	128.64	129.04	0.001736	1.25	18.89	39.42	0.43
Reach3	300.0000	Reg	14.42	128.00	128.97	128.64	129.04	0.001733	1.25	18.87	39.41	0.43
Reach3	300.0000	100year	11.12	128.00	128.89	128.57	128.94	0.001518	1.09	15.73	35.46	0.40
Reach3	300.0000	50year	10.03	128.00	128.84	128.53	128.90	0.001540	1.05	14.19	33.29	0.40
Reach3	260.9135	CheckFlo	14.45	127.84	128.70	128.70	128.90	0.009268	2.02	10.44	49.43	0.91
Reach3	260.9135	Reg	14.42	127.84	128.70	128.70	128.90	0.009310	2.02	10.38	49.24	0.91
Reach3	260.9135	100year	11.12	127.84	128.57	128.57	128.80	0.012358	2.11	6.02	18.99	1.03
Reach3	260.9135	50year	10.03	127.84	128.56	128.55	128.75	0.010806	1.95	5.83	16.31	0.96

HEC-RAS Plan: Prop River: 16MileMain Reach: Reach3 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach3	199.9999	CheckFlo	14.45	127.52	128.68	127.75	128.68	0.000170	0.44	92.17	124.61	0.14
Reach3	199.9999	Reg	14.42	127.52	128.68	127.75	128.68	0.000169	0.43	92.17	124.61	0.14
Reach3	199.9999	100year	11.12	127.52	128.68	127.73	128.68	0.000100	0.33	92.22	124.64	0.11
Reach3	199.9999	50year	10.03	127.52	128.68		128.68	0.000082	0.30	92.24	124.66	0.10
Reach3	99.99991	CheckFlo	14.45	126.34	128.68	126.42	128.68	0.000008	0.14	309.99	194.64	0.03
Reach3	99.99991	Reg	14.42	126.34	128.68	126.42	128.68	0.000008	0.14	309.99	194.64	0.03
Reach3	99.99991	100year	11.12	126.34	128.68	126.36	128.68	0.000005	0.11	309.99	194.64	0.03
Reach3	99.99991	50year	10.03	126.34	128.68	126.34	128.68	0.000004	0.10	309.99	194.64	0.02

HEC-RAS Plan: Prop River: OE02 Reach: ETR

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ETR	1020	Check	3.27	188.01	188.49	188.49	188.61	0.016529	1.55	2.11	8.79	1.01
ETR	1020	Regional	2.56	188.01	188.44	188.44	188.55	0.017386	1.49	1.72	7.85	1.02
ETR	1020	100yr	2.52	188.01	188.44	188.44	188.55	0.017501	1.49	1.69	7.79	1.02
ETR	1020	50yr	2.27	188.01	188.42	188.42	188.53	0.017494	1.45	1.56	7.45	1.01
ETR	1019.8*	Check	2.04	187.97	188.28	188.35	188.50	0.050523	2.08	0.98	6.02	1.65
ETR	1019.8*	Regional	1.13	187.97	188.19	188.27	188.43	0.083786	2.18	0.52	4.33	2.02
ETR	1019.8*	100yr	1.57	187.97	188.25	188.31	188.44	0.048393	1.93	0.81	5.42	1.59
ETR	1019.8*	50yr	1.42	187.97	188.24	188.30	188.43	0.051472	1.94	0.73	5.11	1.63
ETR	1019.6*	Check	2.04	187.94	188.24	188.29	188.43	0.041886	1.90	1.07	6.59	1.50
ETR	1019.6*	Regional	1.13	187.94	188.16	188.22	188.34	0.057779	1.85	0.61	4.96	1.69
ETR	1019.6*	100yr	1.57	187.94	188.21	188.26	188.38	0.043275	1.81	0.87	5.91	1.50
ETR	1019.6*	50yr	1.42	187.94	188.20	188.25	188.36	0.047199	1.82	0.78	5.56	1.56
ETR	1019.4*	Check	2.04	187.90	188.20	188.25	188.36	0.036959	1.79	1.14	6.98	1.41
ETR	1019.4*	Regional	1.13	187.90	188.11	188.17	188.30	0.067396	1.92	0.59	5.10	1.80
ETR	1019.4*	100yr	1.57	187.90	188.16	188.21	188.32	0.045364	1.80	0.87	6.20	1.53
ETR	1019.4*	50yr	1.42	187.90	188.14	188.20	188.31	0.050836	1.83	0.78	5.88	1.60
ETR	1019.2*	Check	2.04	187.87	188.15	188.20	188.31	0.038684	1.78	1.14	7.28	1.44
ETR	1019.2*	Regional	1.13	187.87	188.06	188.12	188.26	0.077894	1.99	0.57	5.17	1.92
ETR	1019.2*	100yr	1.57	187.87	188.10	188.16	188.28	0.054302	1.89	0.83	6.24	1.66
ETR	1019.2*	50yr	1.42	187.87	188.09	188.15	188.28	0.062647	1.95	0.73	5.85	1.76
ETR	1019	Check	2.04	187.83	188.10	188.14	188.26	0.039709	1.76	1.16	7.66	1.45
ETR	1019	Regional	1.13	187.83	188.01	188.07	188.21	0.080325	1.98	0.57	5.40	1.94
ETR	1019	100yr	1.57	187.83	188.05	188.11	188.23	0.051875	1.84	0.85	6.49	1.62
ETR	1019	50yr	1.42	187.83	188.04	188.10	188.22	0.056256	1.85	0.77	6.09	1.67
ETR	1018.83*	Check	2.04	187.75	188.02	188.06	188.16	0.032649	1.63	1.25	8.12	1.32
ETR	1018.83*	Regional	1.13	187.75	187.92	187.99	188.12	0.081154	1.95	0.58	5.61	1.94
ETR	1018.83*	100yr	1.57	187.75	187.97	188.02	188.13	0.050135	1.78	0.88	6.87	1.58
ETR	1018.83*	50yr	1.42	187.75	187.96	188.01	188.12	0.051521	1.75	0.81	6.61	1.59
ETR	1018.66*	Check	2.04	187.68	187.94	187.97	188.07	0.028255	1.56	1.31	8.54	1.24
ETR	1018.66*	Regional	1.13	187.68	187.84	187.90	188.04	0.088147	1.98	0.57	5.81	2.01
ETR	1018.66*	100yr	1.57	187.68	187.89	187.94	188.04	0.047224	1.71	0.92	7.20	1.54
ETR	1018.66*	50yr	1.42	187.68	187.88	187.93	188.03	0.053660	1.75	0.81	6.77	1.62
ETR	1018.5*	Check	2.04	187.60	187.86	187.88	187.98	0.024845	1.49	1.39	8.98	1.17
ETR	1018.5*	Regional	1.13	187.60	187.75	187.82	187.96	0.101117	2.04	0.55	5.94	2.13
ETR	1018.5*	100yr	1.57	187.60	187.81	187.85	187.95	0.047843	1.70	0.93	7.53	1.54
ETR	1018.5*	50yr	1.42	187.60	187.79	187.84	187.95	0.057130	1.76	0.81	7.04	1.66
ETR	1018.3*	Check	2.04	187.52	187.78	187.80	187.88	0.020401	1.40	1.50	9.63	1.06
ETR	1018.3*	Regional	1.13	187.52	187.67	187.73	187.85	0.087247	1.90	0.60	6.38	1.98
ETR	1018.3*	100yr	1.57	187.52	187.72	187.76	187.86	0.043162	1.65	0.96	7.79	1.47
ETR	1018.3*	50yr	1.42	187.52	187.70	187.75	187.86	0.055836	1.73	0.82	7.25	1.64
ETR	1018.1*	Check	2.04	187.44	187.70	187.71	187.79	0.017580	1.32	1.62	10.23	0.99
ETR	1018.1*	Regional	1.13	187.44	187.58	187.64	187.78	0.101508	1.96	0.58	6.60	2.12
ETR	1018.1*	100yr	1.57	187.44	187.64	187.68	187.77	0.039508	1.59	1.00	8.40	1.41
ETR	1018.1*	50yr	1.42	187.44	187.62	187.66	187.77	0.055403	1.72	0.83	7.77	1.63
ETR	1018	Check	2.04	187.36	187.68	187.62	187.72	0.006423	0.90	2.44	12.84	0.62
ETR	1018	Regional	1.13	187.36	187.49	187.56	187.70	0.109958	1.99	0.57	6.86	2.19
ETR	1018	100yr	1.57	187.36	187.65	187.59	187.69	0.005896	0.82	2.06	11.89	0.58
ETR	1018	50yr	1.42	187.36	187.64	187.58	187.67	0.005690	0.78	1.94	11.56	0.57
ETR	1017.75*	Check	2.04	187.34	187.64		187.69	0.007716	0.96	2.28	13.64	0.67
ETR	1017.75*	Regional	1.13	187.34	187.59	187.53	187.61	0.006997	0.75	1.56	11.31	0.61
ETR	1017.75*	100yr	1.57	187.34	187.62		187.65	0.007432	0.85	1.93	12.62	0.65
ETR	1017.75*	50yr	1.42	187.34	187.61		187.64	0.007347	0.82	1.81	12.20	0.64
ETR	1017.5*	Check	2.04	187.32	187.60		187.65	0.009457	1.01	2.18	14.22	0.74
ETR	1017.5*	Regional	1.13	187.32	187.54		187.57	0.008966	0.80	1.47	12.40	0.68
ETR	1017.5*	100yr	1.57	187.32	187.57		187.61	0.009180	0.91	1.83	13.47	0.71
ETR	1017.5*	50yr	1.42	187.32	187.56		187.60	0.009167	0.88	1.71	13.12	0.70
ETR	1017.2*	Check	2.04	187.29	187.56		187.60	0.008808	0.97	2.36	15.00	0.71
ETR	1017.2*	Regional	1.13	187.29	187.50		187.53	0.009357	0.79	1.56	13.12	0.69
ETR	1017.2*	100yr	1.57	187.29	187.53		187.56	0.008930	0.88	1.97	14.11	0.70
ETR	1017.2*	50yr	1.42	187.29	187.52		187.55	0.009018	0.85	1.83	13.80	0.69
ETR	1017	Check	2.04	187.27	187.53		187.56	0.005346	0.78	2.98	16.39	0.56
ETR	1017	Regional	1.13	187.27	187.48		187.49	0.004835	0.61	2.08	14.68	0.50

HEC-RAS Plan: Prop River: OE02 Reach: ETR (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ETR	1017	100yr	1.57	187.27	187.51		187.53	0.005179	0.70	2.54	15.62	0.54
ETR	1017	50yr	1.42	187.27	187.50		187.52	0.005096	0.67	2.39	15.32	0.53
ETR	1016.8*	Check	2.04	187.23	187.49		187.53	0.007367	0.87	2.60	16.60	0.65
ETR	1016.8*	Regional	1.13	187.23	187.44		187.46	0.006934	0.68	1.79	14.96	0.59
ETR	1016.8*	100yr	1.57	187.23	187.47		187.50	0.007248	0.79	2.19	15.83	0.63
ETR	1016.8*	50yr	1.42	187.23	187.46		187.49	0.007256	0.76	2.05	15.55	0.62
ETR	1016.6*	Check	2.04	187.19	187.44		187.49	0.009427	0.93	2.38	17.53	0.72
ETR	1016.6*	Regional	1.13	187.19	187.39		187.42	0.011010	0.78	1.50	15.00	0.73
ETR	1016.6*	100yr	1.57	187.19	187.42		187.45	0.009811	0.85	1.95	16.21	0.72
ETR	1016.6*	50yr	1.42	187.19	187.41		187.44	0.009625	0.82	1.84	15.92	0.70
ETR	1016.4*	Check	2.04	187.14	187.37	187.37	187.43	0.015305	1.03	2.13	18.34	0.89
ETR	1016.4*	Regional	1.13	187.14	187.34	187.31	187.37	0.010249	0.78	1.53	14.55	0.71
ETR	1016.4*	100yr	1.57	187.14	187.36	187.34	187.40	0.012834	0.89	1.87	17.22	0.80
ETR	1016.4*	50yr	1.42	187.14	187.34	187.34	187.39	0.014022	0.93	1.62	14.86	0.84
ETR	1016.2*	Check	2.04	187.10	187.31	187.31	187.35	0.013546	0.99	2.38	20.30	0.84
ETR	1016.2*	Regional	1.13	187.10	187.25	187.25	187.30	0.020844	0.97	1.30	17.65	0.98
ETR	1016.2*	100yr	1.57	187.10	187.28	187.28	187.33	0.017151	1.00	1.79	18.84	0.92
ETR	1016.2*	50yr	1.42	187.10	187.28	187.28	187.32	0.013731	0.90	1.81	18.88	0.82
ETR	1016	Check	2.04	187.06	187.25	187.21	187.27	0.007639	0.76	3.18	23.66	0.63
ETR	1016	Regional	1.13	187.06	187.13	187.17	187.27	0.164109	1.73	0.77	18.52	2.46
ETR	1016	100yr	1.57	187.06	187.23	187.19	187.25	0.007531	0.70	2.67	22.55	0.62
ETR	1016	50yr	1.42	187.06	187.22	187.18	187.24	0.007527	0.67	2.50	22.13	0.61
ETR	1015.83*	Check	2.04	187.02	187.21		187.24	0.008020	0.78	3.20	24.67	0.65
ETR	1015.83*	Regional	1.13	187.02	187.17	187.14	187.19	0.007785	0.64	2.15	22.38	0.61
ETR	1015.83*	100yr	1.57	187.02	187.19		187.21	0.007914	0.72	2.67	23.51	0.63
ETR	1015.83*	50yr	1.42	187.02	187.19		187.21	0.007819	0.69	2.50	23.03	0.62
ETR	1015.66*	Check	2.04	186.98	187.18		187.20	0.008506	0.77	3.25	26.34	0.66
ETR	1015.66*	Regional	1.13	186.98	187.14		187.15	0.008002	0.65	2.18	23.65	0.62
ETR	1015.66*	100yr	1.57	186.98	187.16		187.18	0.008248	0.72	2.71	24.88	0.64
ETR	1015.66*	50yr	1.42	186.98	187.15		187.17	0.008175	0.70	2.54	24.51	0.64
ETR	1015.49*	Check	2.04	186.95	187.14		187.16	0.009085	0.78	3.29	28.33	0.68
ETR	1015.49*	Regional	1.13	186.95	187.10		187.12	0.008363	0.63	2.26	25.94	0.63
ETR	1015.49*	100yr	1.57	186.95	187.12		187.14	0.008626	0.70	2.79	27.09	0.65
ETR	1015.49*	50yr	1.42	186.95	187.12		187.13	0.008514	0.68	2.62	26.73	0.64
ETR	1015.33*	Check	2.04	186.91	187.10		187.12	0.010034	0.81	3.25	30.25	0.71
ETR	1015.33*	Regional	1.13	186.91	187.06		187.08	0.009847	0.66	2.19	27.62	0.67
ETR	1015.33*	100yr	1.57	186.91	187.08		187.10	0.009983	0.73	2.75	29.28	0.69
ETR	1015.33*	50yr	1.42	186.91	187.07		187.09	0.009992	0.71	2.56	28.72	0.69
ETR	1015.16*	Check	2.04	186.87	187.06		187.08	0.008489	0.79	3.51	33.06	0.67
ETR	1015.16*	Regional	1.13	186.87	187.03		187.04	0.006145	0.58	2.61	31.27	0.55
ETR	1015.16*	100yr	1.57	186.87	187.04		187.06	0.007458	0.69	3.07	32.35	0.61
ETR	1015.16*	50yr	1.42	186.87	187.04		187.05	0.007518	0.67	2.85	31.83	0.61
ETR	1015	Check	2.04	186.83	186.99	186.99	187.03	0.017215	1.04	2.82	34.17	0.93
ETR	1015	Regional	1.13	186.83	186.95	186.95	186.99	0.025132	0.99	1.58	30.80	1.06
ETR	1015	100yr	1.57	186.83	186.97	186.97	187.01	0.020026	1.01	2.21	32.65	0.98
ETR	1015	50yr	1.42	186.83	186.96	186.96	187.00	0.021101	0.99	2.01	32.17	0.99
ETR	1014.8*	Check	2.04	186.61	186.76	186.80	186.89	0.057990	1.70	1.41	16.33	1.66
ETR	1014.8*	Regional	1.13	186.61	186.73	186.76	186.82	0.058898	1.37	0.94	14.67	1.58
ETR	1014.8*	100yr	1.57	186.61	186.75	186.78	186.85	0.053835	1.51	1.21	15.76	1.56
ETR	1014.8*	50yr	1.42	186.61	186.74	186.77	186.84	0.058658	1.49	1.10	15.43	1.61
ETR	1014.7*	Check	2.04	186.39	186.57	186.60	186.67	0.036661	1.49	1.63	16.08	1.35
ETR	1014.7*	Regional	1.13	186.39	186.54	186.55	186.60	0.034905	1.17	1.11	14.41	1.25
ETR	1014.7*	100yr	1.57	186.39	186.56	186.57	186.63	0.037227	1.35	1.36	15.39	1.33
ETR	1014.7*	50yr	1.42	186.39	186.55	186.57	186.62	0.039492	1.33	1.24	15.02	1.35
ETR	1014.5*	Check	2.04	186.17	186.36	186.39	186.47	0.048488	1.64	1.46	14.71	1.53
ETR	1014.5*	Regional	1.13	186.17	186.32	186.34	186.40	0.049543	1.32	0.98	12.35	1.46
ETR	1014.5*	100yr	1.57	186.17	186.34	186.37	186.44	0.048767	1.48	1.22	13.84	1.50
ETR	1014.5*	50yr	1.42	186.17	186.34	186.36	186.42	0.045750	1.40	1.17	13.48	1.44
ETR	1014.3*	Check	2.04	185.95	186.33	186.18	186.35	0.001613	0.57	5.02	23.85	0.33
ETR	1014.3*	Regional	1.13	185.95	186.12	186.13	186.19	0.041632	1.30	1.01	11.57	1.37
ETR	1014.3*	100yr	1.57	185.95	186.14	186.15	186.23	0.045827	1.50	1.22	12.03	1.47
ETR	1014.3*	50yr	1.42	185.95	186.13	186.14	186.22	0.045358	1.44	1.15	11.89	1.45

HEC-RAS Plan: Prop River: OE02 Reach: ETR (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ETR	1014.2	Check	2.04	185.73	186.34	185.97	186.34	0.000213	0.29	10.14	26.14	0.13
ETR	1014.2	Regional	1.13	185.73	186.04	185.90	186.05	0.002142	0.52	2.82	20.85	0.36
ETR	1014.2	100yr	1.57	185.73	186.19	185.96	186.20	0.000469	0.35	6.48	24.51	0.18
ETR	1014.2	50yr	1.42	185.73	186.15	185.95	186.15	0.000694	0.38	5.28	24.09	0.22
ETR	1013.6	Culvert										
ETR	1013.2	Check	2.04	185.16	185.64		185.65	0.000711	0.45	5.58	20.57	0.23
ETR	1013.2	Regional	1.13	185.16	185.43		185.45	0.003307	0.60	1.95	11.69	0.44
ETR	1013.2	100yr	1.57	185.16	185.41		185.46	0.009911	0.97	1.66	10.33	0.74
ETR	1013.2	50yr	1.42	185.16	185.36	185.36	185.43	0.019491	1.17	1.22	9.23	1.00
ETR	1013.1*	Check	2.04	184.94	185.64		185.64	0.000100	0.22	13.54	38.89	0.09
ETR	1013.1*	Regional	1.13	184.94	185.44		185.44	0.000187	0.23	6.53	28.80	0.12
ETR	1013.1*	100yr	1.57	184.94	185.43		185.43	0.000410	0.34	6.13	26.23	0.17
ETR	1013.1*	50yr	1.42	184.94	185.35	185.16	185.36	0.000801	0.41	4.31	23.21	0.23
ETR	1013.05*	Check	2.04	184.73	185.64		185.64	0.000019	0.12	27.13	53.40	0.04
ETR	1013.05*	Regional	1.13	184.73	185.44		185.44	0.000021	0.10	17.06	46.81	0.04
ETR	1013.05*	100yr	1.57	184.73	185.43		185.43	0.000045	0.15	16.43	46.51	0.06
ETR	1013.05*	50yr	1.42	184.73	185.35		185.36	0.000068	0.17	13.10	44.76	0.07
ETR	1013	Check	3.69	184.51	185.64	184.85	185.64	0.000018	0.13	45.31	67.94	0.04
ETR	1013	Regional	2.89	184.51	185.44	184.82	185.44	0.000026	0.14	32.59	59.29	0.05
ETR	1013	100yr	2.84	184.51	185.43	184.82	185.43	0.000027	0.14	31.81	59.01	0.05
ETR	1013	50yr	2.57	184.51	185.35	184.82	185.36	0.000034	0.15	27.58	57.47	0.06
ETR	1012.5	Culvert										
ETR	1012	Check	3.69	184.16	184.87	184.96	185.11	0.018299	2.27	2.00	10.47	1.13
ETR	1012	Regional	2.89	184.16	184.75	184.86	185.09	0.036448	2.60	1.16	4.94	1.51
ETR	1012	100yr	2.84	184.16	184.75	184.86	185.09	0.038328	2.62	1.13	4.85	1.55
ETR	1012	50yr	2.57	184.16	184.85	184.85	184.98	0.009918	1.64	1.89	9.85	0.83
ETR	1011.8*	Check	3.69	184.12	184.74	184.82	185.02	0.027077	2.36	1.64	6.89	1.33
ETR	1011.8*	Regional	2.89	184.12	184.70	184.76	184.92	0.025314	2.10	1.41	5.95	1.26
ETR	1011.8*	100yr	2.84	184.12	184.68	184.76	184.93	0.029608	2.19	1.32	5.74	1.35
ETR	1011.8*	50yr	2.57	184.12	184.66	184.72	184.90	0.031975	2.15	1.20	5.46	1.39
ETR	1011.6*	Check	3.69	184.09	184.68	184.73	184.88	0.020060	1.98	1.92	7.77	1.15
ETR	1011.6*	Regional	2.89	184.09	184.64	184.66	184.81	0.020450	1.81	1.61	6.89	1.13
ETR	1011.6*	100yr	2.84	184.09	184.65	184.66	184.80	0.017069	1.70	1.69	7.06	1.04
ETR	1011.6*	50yr	2.57	184.09	184.63	184.64	184.78	0.018275	1.67	1.55	6.74	1.06
ETR	1011.4*	Check	3.69	184.06	184.61	184.64	184.80	0.022648	1.92	1.94	8.15	1.19
ETR	1011.4*	Regional	2.89	184.06	184.61	184.60	184.72	0.013634	1.49	1.95	8.18	0.93
ETR	1011.4*	100yr	2.84	184.06	184.57	184.60	184.72	0.022048	1.72	1.66	7.50	1.15
ETR	1011.4*	50yr	2.57	184.06	184.56	184.58	184.70	0.021928	1.65	1.56	7.27	1.14
ETR	1011.2*	Check	3.69	184.03	184.56	184.57	184.71	0.018830	1.71	2.17	9.18	1.08
ETR	1011.2*	Regional	2.89	184.03	184.55	184.53	184.65	0.013600	1.41	2.06	8.93	0.91
ETR	1011.2*	100yr	2.84	184.03	184.51	184.53	184.65	0.021789	1.64	1.73	8.08	1.13
ETR	1011.2*	50yr	2.57	184.03	184.49	184.51	184.63	0.021887	1.61	1.59	7.68	1.13
ETR	1011	Check	3.69	183.99	184.51	184.52	184.64	0.018827	1.62	2.28	10.05	1.07
ETR	1011	Regional	2.89	183.99	184.48	184.48	184.58	0.017267	1.46	1.98	9.25	1.01
ETR	1011	100yr	2.84	183.99	184.45	184.47	184.58	0.023203	1.64	1.74	8.55	1.16
ETR	1011	50yr	2.57	183.99	184.43	184.46	184.56	0.023396	1.61	1.60	8.12	1.16
ETR	1010.8*	Check	3.69	183.86	184.36	184.40	184.54	0.025840	1.88	1.96	8.54	1.25
ETR	1010.8*	Regional	2.89	183.86	184.31	184.35	184.48	0.026989	1.82	1.59	7.48	1.26
ETR	1010.8*	100yr	2.84	183.86	184.32	184.35	184.48	0.025559	1.77	1.60	7.51	1.23
ETR	1010.8*	50yr	2.57	183.86	184.30	184.33	184.45	0.025812	1.74	1.47	7.15	1.23
ETR	1010.6*	Check	3.69	183.72	184.26	184.28	184.43	0.019927	1.84	2.01	7.99	1.13
ETR	1010.6*	Regional	2.89	183.72	184.22	184.24	184.37	0.021694	1.72	1.68	7.25	1.14
ETR	1010.6*	100yr	2.84	183.72	184.20	184.23	184.37	0.023795	1.79	1.59	6.98	1.19
ETR	1010.6*	50yr	2.57	183.72	184.19	184.22	184.34	0.023627	1.75	1.47	6.58	1.19
ETR	1010.4*	Check	3.69	183.59	184.16	184.18	184.35	0.018521	1.93	1.94	7.20	1.11
ETR	1010.4*	Regional	2.89	183.59	184.11	184.13	184.27	0.020810	1.82	1.59	6.39	1.14
ETR	1010.4*	100yr	2.84	183.59	184.11	184.13	184.27	0.020212	1.79	1.59	6.38	1.12
ETR	1010.4*	50yr	2.57	183.59	184.08	184.11	184.24	0.021383	1.76	1.46	6.06	1.14
ETR	1010.2*	Check	3.69	183.45	184.13	184.10	184.28	0.009264	1.69	2.36	7.93	0.82
ETR	1010.2*	Regional	2.89	183.45	184.06	184.03	184.19	0.010919	1.62	1.84	6.35	0.87

HEC-RAS Plan: Prop River: OE02 Reach: ETR (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ETR	1010.2*	100yr	2.84	183.45	184.06	184.03	184.19	0.011053	1.62	1.81	6.28	0.87
ETR	1010.2*	50yr	2.57	183.45	184.03	184.00	184.16	0.012015	1.59	1.64	5.93	0.89
ETR	1010	Check	3.69	183.32	184.06	184.04	184.23	0.009577	1.87	2.27	7.76	0.85
ETR	1010	Regional	2.89	183.32	184.00	183.96	184.14	0.009056	1.68	1.88	6.43	0.81
ETR	1010	100yr	2.84	183.32	184.00	183.96	184.14	0.008978	1.67	1.86	6.36	0.80
ETR	1010	50yr	2.57	183.32	183.98	183.93	184.11	0.008829	1.60	1.73	5.84	0.79
ETR	1009.83*	Check	3.69	183.29	184.01	183.99	184.18	0.009863	1.85	2.25	7.81	0.86
ETR	1009.83*	Regional	2.89	183.29	183.96	183.92	184.10	0.009088	1.65	1.90	6.54	0.81
ETR	1009.83*	100yr	2.84	183.29	183.96	183.91	184.09	0.008977	1.63	1.88	6.48	0.80
ETR	1009.83*	50yr	2.57	183.29	183.94	183.89	184.06	0.008805	1.56	1.75	6.01	0.79
ETR	1009.66*	Check	3.69	183.27	183.97	183.97	184.13	0.010295	1.83	2.32	10.81	0.87
ETR	1009.66*	Regional	2.89	183.27	183.92	183.88	184.05	0.009899	1.66	1.86	7.09	0.84
ETR	1009.66*	100yr	2.84	183.27	183.91	183.87	184.05	0.009966	1.65	1.83	6.80	0.84
ETR	1009.66*	50yr	2.57	183.27	183.89	183.85	184.02	0.009592	1.57	1.71	6.00	0.81
ETR	1009.5*	Check	3.69	183.24	183.88	183.93	184.08	0.014596	1.99	2.13	10.47	1.01
ETR	1009.5*	Regional	2.89	183.24	183.87	183.86	184.00	0.010692	1.65	1.95	9.44	0.86
ETR	1009.5*	100yr	2.84	183.24	183.85	183.85	184.00	0.011827	1.70	1.83	8.65	0.90
ETR	1009.5*	50yr	2.57	183.24	183.84	183.82	183.97	0.011118	1.60	1.72	7.96	0.87
ETR	1009.3*	Check	3.69	183.22	183.86	183.87	184.01	0.010990	1.74	2.68	13.31	0.88
ETR	1009.3*	Regional	2.89	183.22	183.81	183.81	183.94	0.011836	1.64	2.06	10.12	0.89
ETR	1009.3*	100yr	2.84	183.22	183.81	183.81	183.94	0.011880	1.63	2.03	9.98	0.89
ETR	1009.3*	50yr	2.57	183.22	183.80	183.79	183.91	0.010995	1.54	1.92	9.56	0.86
ETR	1009.2*	Check	3.69	183.19	183.82	183.79	183.93	0.009548	1.58	3.08	14.50	0.82
ETR	1009.2*	Regional	2.89	183.19	183.78	183.75	183.87	0.009582	1.46	2.48	11.84	0.80
ETR	1009.2*	100yr	2.84	183.19	183.78	183.74	183.87	0.009607	1.45	2.44	11.68	0.80
ETR	1009.2*	50yr	2.57	183.19	183.76	183.73	183.85	0.009778	1.41	2.23	10.83	0.80
ETR	1009	Check	3.69	183.17	183.82		183.88	0.005915	1.28	3.97	16.86	0.65
ETR	1009	Regional	2.89	183.17	183.77		183.82	0.006207	1.19	3.18	14.31	0.65
ETR	1009	100yr	2.84	183.17	183.76		183.82	0.006234	1.19	3.12	14.11	0.65
ETR	1009	50yr	2.57	183.17	183.74		183.80	0.006394	1.16	2.85	13.02	0.65
ETR	1008.87*	Check	3.69	183.11	183.77		183.85	0.006537	1.36	3.67	16.54	0.68
ETR	1008.87*	Regional	2.89	183.11	183.72		183.79	0.006923	1.28	2.88	13.68	0.69
ETR	1008.87*	100yr	2.84	183.11	183.72		183.79	0.006936	1.27	2.84	13.46	0.69
ETR	1008.87*	50yr	2.57	183.11	183.70		183.76	0.007026	1.23	2.59	12.24	0.69
ETR	1008.75*	Check	3.69	183.05	183.71	183.67	183.81	0.008154	1.51	3.17	15.29	0.76
ETR	1008.75*	Regional	2.89	183.05	183.66	183.62	183.75	0.008249	1.39	2.51	12.21	0.75
ETR	1008.75*	100yr	2.84	183.05	183.66	183.62	183.75	0.008289	1.39	2.47	12.03	0.75
ETR	1008.75*	50yr	2.57	183.05	183.64	183.60	183.73	0.008542	1.35	2.23	11.00	0.76
ETR	1008.62*	Check	3.69	183.00	183.65	183.64	183.78	0.009498	1.61	2.77	13.38	0.82
ETR	1008.62*	Regional	2.89	183.00	183.60	183.58	183.71	0.010850	1.55	2.08	10.22	0.85
ETR	1008.62*	100yr	2.84	183.00	183.59	183.57	183.71	0.010921	1.54	2.04	10.02	0.86
ETR	1008.62*	50yr	2.57	183.00	183.57	183.55	183.68	0.011275	1.50	1.85	8.97	0.86
ETR	1008.5*	Check	3.69	182.94	183.59	183.58	183.73	0.011022	1.71	2.42	11.35	0.88
ETR	1008.5*	Regional	2.89	182.94	183.53	183.52	183.66	0.012105	1.61	1.87	8.13	0.90
ETR	1008.5*	100yr	2.84	182.94	183.53	183.51	183.66	0.012119	1.60	1.84	7.97	0.90
ETR	1008.5*	50yr	2.57	182.94	183.51	183.49	183.63	0.012153	1.54	1.70	7.07	0.89
ETR	1008.4*	Check	3.69	182.88	183.53	183.52	183.68	0.011310	1.72	2.30	9.06	0.89
ETR	1008.4*	Regional	2.89	182.88	183.47	183.46	183.61	0.012325	1.61	1.85	7.11	0.91
ETR	1008.4*	100yr	2.84	182.88	183.47	183.45	183.60	0.012315	1.60	1.82	7.02	0.90
ETR	1008.4*	50yr	2.57	182.88	183.45	183.43	183.57	0.012293	1.54	1.70	6.66	0.90
ETR	1008.3*	Check	3.69	182.82	183.47	183.46	183.62	0.011825	1.74	2.27	8.71	0.91
ETR	1008.3*	Regional	2.89	182.82	183.42	183.40	183.55	0.011888	1.59	1.88	7.28	0.89
ETR	1008.3*	100yr	2.84	182.82	183.42	183.39	183.54	0.011874	1.57	1.86	7.21	0.89
ETR	1008.3*	50yr	2.57	182.82	183.40	183.37	183.52	0.011803	1.51	1.74	6.78	0.88
ETR	1008.1*	Check	3.69	182.76	183.42	183.41	183.56	0.011195	1.70	2.34	9.09	0.89
ETR	1008.1*	Regional	2.89	182.76	183.37	183.34	183.49	0.010656	1.53	1.97	7.72	0.85
ETR	1008.1*	100yr	2.84	182.76	183.37	183.34	183.49	0.010611	1.52	1.95	7.62	0.84
ETR	1008.1*	50yr	2.57	182.76	183.35	183.32	183.46	0.010411	1.45	1.82	7.18	0.83
ETR	1008	Check	3.69	182.71	183.38	183.34	183.51	0.008999	1.58	2.57	10.06	0.80
ETR	1008	Regional	2.89	182.71	183.34	183.28	183.44	0.008176	1.40	2.19	8.65	0.75
ETR	1008	100yr	2.84	182.71	183.34	183.28	183.44	0.008116	1.39	2.16	8.56	0.75
ETR	1008	50yr	2.57	182.71	183.32		183.41	0.007802	1.32	2.03	8.04	0.73

HEC-RAS Plan: Prop River: OE02 Reach: ETR (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ETR	1007.83*	Check	3.69	182.69	183.36	183.31	183.46	0.007780	1.45	2.82	11.11	0.74
ETR	1007.83*	Regional	2.89	182.69	183.32		183.40	0.007057	1.28	2.40	9.73	0.70
ETR	1007.83*	100yr	2.84	182.69	183.32		183.40	0.007005	1.27	2.38	9.64	0.69
ETR	1007.83*	50yr	2.57	182.69	183.30		183.38	0.006737	1.21	2.23	9.15	0.67
ETR	1007.66*	Check	3.69	182.68	183.34		183.43	0.007141	1.35	3.03	12.44	0.71
ETR	1007.66*	Regional	2.89	182.68	183.30		183.37	0.006460	1.20	2.59	10.93	0.66
ETR	1007.66*	100yr	2.84	182.68	183.30		183.37	0.006415	1.19	2.56	10.84	0.66
ETR	1007.66*	50yr	2.57	182.68	183.28		183.34	0.006181	1.13	2.41	10.32	0.64
ETR	1007.5*	Check	3.69	182.66	183.31		183.39	0.006736	1.28	3.22	13.80	0.68
ETR	1007.5*	Regional	2.89	182.66	183.28		183.34	0.006035	1.13	2.76	12.10	0.64
ETR	1007.5*	100yr	2.84	182.66	183.27		183.34	0.005991	1.12	2.73	11.98	0.63
ETR	1007.5*	50yr	2.57	182.66	183.26		183.32	0.005773	1.06	2.57	11.45	0.62
ETR	1007.3*	Check	3.69	182.65	183.29	183.22	183.36	0.006975	1.24	3.35	16.37	0.69
ETR	1007.3*	Regional	2.89	182.65	183.25		183.31	0.006169	1.09	2.87	13.57	0.64
ETR	1007.3*	100yr	2.84	182.65	183.25		183.31	0.006127	1.08	2.84	13.46	0.63
ETR	1007.3*	50yr	2.57	182.65	183.24		183.29	0.005924	1.03	2.66	12.84	0.62
ETR	1007.1*	Check	3.69	182.63	183.26	183.20	183.33	0.007213	1.21	3.53	19.89	0.69
ETR	1007.1*	Regional	2.89	182.63	183.23		183.28	0.006528	1.08	2.97	16.44	0.65
ETR	1007.1*	100yr	2.84	182.63	183.22		183.28	0.006490	1.07	2.93	16.26	0.65
ETR	1007.1*	50yr	2.57	182.63	183.21		183.26	0.006243	1.01	2.74	14.50	0.63
ETR	1007	Check	3.69	182.62	183.23	183.20	183.30	0.008262	1.21	3.70	25.04	0.73
ETR	1007	Regional	2.89	182.62	183.19	183.15	183.25	0.008628	1.13	2.88	19.70	0.73
ETR	1007	100yr	2.84	182.62	183.19	183.15	183.25	0.008638	1.13	2.83	19.32	0.73
ETR	1007	50yr	2.57	182.62	183.17	183.13	183.23	0.008651	1.09	2.59	17.19	0.72
ETR	1006.88*	Check	3.69	182.59	183.19	183.15	183.26	0.008515	1.23	3.51	20.93	0.74
ETR	1006.88*	Regional	2.89	182.59	183.15		183.21	0.008620	1.13	2.83	17.68	0.73
ETR	1006.88*	100yr	2.84	182.59	183.15		183.21	0.008625	1.13	2.79	17.47	0.73
ETR	1006.88*	50yr	2.57	182.59	183.14		183.19	0.008620	1.09	2.57	16.21	0.72
ETR	1006.75*	Check	3.69	182.56	183.15		183.22	0.008550	1.23	3.43	18.83	0.74
ETR	1006.75*	Regional	2.89	182.56	183.11	183.08	183.18	0.008708	1.14	2.79	16.68	0.73
ETR	1006.75*	100yr	2.84	182.56	183.11	183.07	183.17	0.008711	1.13	2.76	16.52	0.73
ETR	1006.75*	50yr	2.57	182.56	183.10	183.07	183.16	0.008749	1.09	2.54	15.73	0.73
ETR	1006.63*	Check	3.69	182.54	183.11		183.18	0.008299	1.23	3.43	17.97	0.73
ETR	1006.63*	Regional	2.89	182.54	183.07		183.14	0.008470	1.13	2.80	16.17	0.72
ETR	1006.63*	100yr	2.84	182.54	183.07		183.13	0.008483	1.12	2.76	16.06	0.72
ETR	1006.63*	50yr	2.57	182.54	183.06		183.12	0.008536	1.08	2.55	15.43	0.72
ETR	1006.5*	Check	3.69	182.51	183.07		183.15	0.008198	1.22	3.40	17.15	0.73
ETR	1006.5*	Regional	2.89	182.51	183.04		183.10	0.008484	1.13	2.78	15.53	0.73
ETR	1006.5*	100yr	2.84	182.51	183.03		183.10	0.008498	1.12	2.74	15.43	0.73
ETR	1006.5*	50yr	2.57	182.51	183.02		183.08	0.008562	1.09	2.53	14.67	0.72
ETR	1006.4*	Check	3.69	182.48	183.04		183.11	0.007209	1.18	3.54	16.90	0.69
ETR	1006.4*	Regional	2.89	182.48	183.00		183.06	0.007466	1.09	2.90	15.41	0.69
ETR	1006.4*	100yr	2.84	182.48	183.00		183.06	0.007483	1.08	2.86	15.32	0.68
ETR	1006.4*	50yr	2.57	182.48	182.99		183.04	0.007583	1.05	2.64	14.83	0.68
ETR	1006.3*	Check	3.69	182.46	183.02		183.08	0.006235	1.12	3.70	16.60	0.65
ETR	1006.3*	Regional	2.89	182.46	182.98		183.03	0.006434	1.04	3.05	15.36	0.64
ETR	1006.3*	100yr	2.84	182.46	182.98		183.03	0.006448	1.03	3.01	15.28	0.64
ETR	1006.3*	50yr	2.57	182.46	182.96		183.01	0.006529	1.00	2.78	14.82	0.64
ETR	1006.2*	Check	3.69	182.43	183.00		183.05	0.005109	1.06	3.95	16.63	0.59
ETR	1006.2*	Regional	2.89	182.43	182.96		183.00	0.005126	0.97	3.29	15.44	0.58
ETR	1006.2*	100yr	2.84	182.43	182.95		183.00	0.005125	0.96	3.25	15.36	0.58
ETR	1006.2*	50yr	2.57	182.43	182.94		182.98	0.005115	0.93	3.02	14.82	0.57
ETR	1006	Check	3.69	182.40	182.98		183.03	0.004024	0.98	4.27	16.75	0.53
ETR	1006	Regional	2.89	182.40	182.94		182.98	0.003825	0.88	3.64	15.65	0.51
ETR	1006	100yr	2.84	182.40	182.94		182.98	0.003813	0.88	3.59	15.58	0.50
ETR	1006	50yr	2.57	182.40	182.92		182.96	0.003741	0.84	3.36	15.16	0.50
ETR	1005.86*	Check	3.69	182.41	182.96		183.01	0.004701	1.03	4.05	16.88	0.57
ETR	1005.86*	Regional	2.89	182.41	182.92		182.96	0.004463	0.93	3.43	15.75	0.54
ETR	1005.86*	100yr	2.84	182.41	182.92		182.96	0.004446	0.92	3.39	15.63	0.54
ETR	1005.86*	50yr	2.57	182.41	182.90		182.94	0.004341	0.88	3.17	15.09	0.53
ETR	1005.72*	Check	3.69	182.41	182.93		182.98	0.005589	1.09	3.85	17.14	0.62

HEC-RAS Plan: Prop River: OE02 Reach: ETR (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ETR	1005.72*	Regional	2.89	182.41	182.89		182.94	0.005250	0.97	3.27	15.74	0.58
ETR	1005.72*	100yr	2.84	182.41	182.89		182.94	0.005227	0.97	3.24	15.64	0.58
ETR	1005.72*	50yr	2.57	182.41	182.88		182.92	0.005100	0.92	3.03	15.15	0.57
ETR	1005.58*	Check	3.69	182.41	182.89		182.96	0.006762	1.14	3.72	17.74	0.67
ETR	1005.58*	Regional	2.89	182.41	182.86		182.91	0.006314	1.02	3.17	16.18	0.63
ETR	1005.58*	100yr	2.84	182.41	182.86		182.91	0.006287	1.01	3.14	16.08	0.63
ETR	1005.58*	50yr	2.57	182.41	182.85		182.89	0.006167	0.97	2.93	15.62	0.62
ETR	1005.44*	Check	3.69	182.42	182.86		182.92	0.007726	1.16	3.74	18.37	0.71
ETR	1005.44*	Regional	2.89	182.42	182.83		182.88	0.007598	1.06	3.15	17.13	0.69
ETR	1005.44*	100yr	2.84	182.42	182.83		182.88	0.007596	1.05	3.11	17.04	0.69
ETR	1005.44*	50yr	2.57	182.42	182.81		182.86	0.007600	1.02	2.90	16.52	0.68
ETR	1005.29*	Check	3.69	182.42	182.83		182.89	0.008271	1.14	3.94	19.83	0.72
ETR	1005.29*	Regional	2.89	182.42	182.79		182.84	0.008343	1.07	3.27	18.27	0.71
ETR	1005.29*	100yr	2.84	182.42	182.79		182.84	0.008335	1.06	3.22	18.16	0.71
ETR	1005.29*	50yr	2.57	182.42	182.78		182.83	0.008283	1.04	2.98	17.55	0.71
ETR	1005.15*	Check	3.69	182.42	182.81		182.85	0.006403	0.99	4.62	21.44	0.63
ETR	1005.15*	Regional	2.89	182.42	182.77		182.81	0.006514	0.95	3.84	20.41	0.63
ETR	1005.15*	100yr	2.84	182.42	182.77		182.81	0.006523	0.94	3.79	20.34	0.63
ETR	1005.15*	50yr	2.57	182.42	182.76		182.79	0.006600	0.93	3.50	19.89	0.63
ETR	1005	Check	3.69	182.43	182.80		182.82	0.003890	0.79	5.71	23.00	0.50
ETR	1005	Regional	2.89	182.43	182.76		182.78	0.003706	0.73	4.89	21.91	0.48
ETR	1005	100yr	2.84	182.43	182.76		182.78	0.003695	0.73	4.84	21.84	0.48
ETR	1005	50yr	2.57	182.43	182.74		182.76	0.003647	0.71	4.53	21.43	0.47
ETR	1004.86*	Check	3.69	182.39	182.77		182.80	0.004587	0.86	5.28	22.83	0.54
ETR	1004.86*	Regional	2.89	182.39	182.74		182.76	0.004499	0.79	4.51	21.63	0.52
ETR	1004.86*	100yr	2.84	182.39	182.73		182.76	0.004489	0.78	4.46	21.56	0.52
ETR	1004.86*	50yr	2.57	182.39	182.72		182.74	0.004473	0.76	4.16	21.16	0.52
ETR	1004.72*	Check	3.69	182.35	182.74		182.78	0.005279	0.95	4.86	22.54	0.58
ETR	1004.72*	Regional	2.89	182.35	182.71		182.74	0.005217	0.86	4.13	21.39	0.57
ETR	1004.72*	100yr	2.84	182.35	182.70		182.73	0.005213	0.86	4.09	21.30	0.57
ETR	1004.72*	50yr	2.57	182.35	182.69		182.72	0.005198	0.83	3.83	20.87	0.56
ETR	1004.58*	Check	3.69	182.31	182.70		182.75	0.006513	1.06	4.37	21.92	0.65
ETR	1004.58*	Regional	2.89	182.31	182.67		182.71	0.006461	0.97	3.69	21.08	0.63
ETR	1004.58*	100yr	2.84	182.31	182.67		182.71	0.006462	0.96	3.64	21.03	0.63
ETR	1004.58*	50yr	2.57	182.31	182.65		182.69	0.006487	0.93	3.39	20.69	0.63
ETR	1004.43*	Check	3.69	182.27	182.65		182.71	0.008110	1.16	3.93	21.46	0.72
ETR	1004.43*	Regional	2.89	182.27	182.62		182.67	0.007968	1.07	3.29	20.48	0.70
ETR	1004.43*	100yr	2.84	182.27	182.62		182.67	0.007942	1.06	3.25	20.39	0.70
ETR	1004.43*	50yr	2.57	182.27	182.61		182.66	0.007769	1.01	3.04	19.81	0.68
ETR	1004.29*	Check	3.69	182.24	182.62		182.68	0.007921	1.16	4.03	23.71	0.71
ETR	1004.29*	Regional	2.89	182.24	182.58	182.54	182.64	0.008613	1.10	3.21	21.94	0.73
ETR	1004.29*	100yr	2.84	182.24	182.58	182.55	182.63	0.008677	1.10	3.16	21.84	0.73
ETR	1004.29*	50yr	2.57	182.24	182.56	182.54	182.62	0.009013	1.07	2.87	21.34	0.73
ETR	1004.14*	Check	3.69	182.20	182.61		182.64	0.003920	0.89	5.46	25.86	0.51
ETR	1004.14*	Regional	2.89	182.20	182.57		182.60	0.003991	0.82	4.53	24.18	0.51
ETR	1004.14*	100yr	2.84	182.20	182.57		182.60	0.003993	0.81	4.47	24.02	0.50
ETR	1004.14*	50yr	2.57	182.20	182.56		182.58	0.004031	0.79	4.14	23.29	0.50
ETR	1004	Check	3.69	182.16	182.61		182.63	0.001622	0.62	7.87	29.46	0.34
ETR	1004	Regional	2.89	182.16	182.57		182.59	0.001517	0.56	6.79	27.98	0.32
ETR	1004	100yr	2.84	182.16	182.57		182.58	0.001509	0.55	6.72	27.86	0.32
ETR	1004	50yr	2.57	182.16	182.56		182.57	0.001462	0.53	6.33	27.18	0.31
ETR	1003.86*	Check	3.69	182.16	182.59		182.62	0.002380	0.74	6.65	27.91	0.41
ETR	1003.86*	Regional	2.89	182.16	182.56		182.58	0.002258	0.67	5.67	26.34	0.39
ETR	1003.86*	100yr	2.84	182.16	182.56		182.57	0.002251	0.67	5.60	26.25	0.39
ETR	1003.86*	50yr	2.57	182.16	182.54		182.56	0.002208	0.64	5.25	25.78	0.38
ETR	1003.72*	Check	3.69	182.15	182.57		182.60	0.003360	0.86	5.71	26.45	0.48
ETR	1003.72*	Regional	2.89	182.15	182.54		182.56	0.003268	0.78	4.80	25.20	0.46
ETR	1003.72*	100yr	2.84	182.15	182.53		182.56	0.003263	0.78	4.74	25.11	0.46
ETR	1003.72*	50yr	2.57	182.15	182.52		182.55	0.003219	0.75	4.42	24.55	0.46
ETR	1003.58*	Check	3.69	182.15	182.54		182.58	0.004611	0.96	4.98	24.91	0.56
ETR	1003.58*	Regional	2.89	182.15	182.51		182.54	0.004590	0.89	4.14	23.89	0.54
ETR	1003.58*	100yr	2.84	182.15	182.51		182.54	0.004589	0.88	4.09	23.83	0.54

HEC-RAS Plan: Prop River: OE02 Reach: ETR (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ETR	1003.58*	50yr	2.57	182.15	182.49		182.53	0.004558	0.85	3.79	23.29	0.54
ETR	1003.44*	Check	3.69	182.15	182.51		182.56	0.005543	1.01	4.61	22.37	0.60
ETR	1003.44*	Regional	2.89	182.15	182.48		182.52	0.005381	0.92	3.91	21.36	0.58
ETR	1003.44*	100yr	2.84	182.15	182.48		182.52	0.005370	0.91	3.86	21.29	0.58
ETR	1003.44*	50yr	2.57	182.15	182.47		182.50	0.005300	0.88	3.61	20.93	0.57
ETR	1003.29*	Check	3.69	182.15	182.49		182.53	0.006241	1.02	4.50	21.86	0.63
ETR	1003.29*	Regional	2.89	182.15	182.45		182.49	0.006090	0.93	3.84	20.99	0.61
ETR	1003.29*	100yr	2.84	182.15	182.45		182.49	0.006083	0.93	3.79	20.94	0.61
ETR	1003.29*	50yr	2.57	182.15	182.44		182.47	0.006027	0.89	3.55	20.71	0.60
ETR	1003.14*	Check	3.69	182.14	182.46		182.50	0.006637	1.01	4.53	21.77	0.64
ETR	1003.14*	Regional	2.89	182.14	182.43		182.46	0.006480	0.91	3.89	21.06	0.62
ETR	1003.14*	100yr	2.84	182.14	182.42		182.46	0.006470	0.90	3.84	21.02	0.62
ETR	1003.14*	50yr	2.57	182.14	182.41		182.44	0.006408	0.87	3.61	20.77	0.61
ETR	1003	Check	3.69	182.14	182.43		182.46	0.007050	0.97	4.58	21.89	0.65
ETR	1003	Regional	2.89	182.14	182.40		182.43	0.006888	0.88	3.94	21.24	0.63
ETR	1003	100yr	2.84	182.14	182.39		182.42	0.006879	0.87	3.90	21.19	0.63
ETR	1003	50yr	2.57	182.14	182.38		182.41	0.006821	0.83	3.67	20.94	0.62
ETR	1002.9*	Check	3.69	182.12	182.39		182.43	0.006835	0.97	4.64	22.91	0.65
ETR	1002.9*	Regional	2.89	182.12	182.37		182.40	0.006640	0.87	4.00	22.20	0.62
ETR	1002.9*	100yr	2.84	182.12	182.36		182.39	0.006626	0.87	3.96	22.15	0.62
ETR	1002.9*	50yr	2.57	182.12	182.35		182.38	0.006567	0.83	3.72	21.90	0.61
ETR	1002.8*	Check	3.69	182.09	182.36		182.40	0.006762	0.96	4.70	24.00	0.64
ETR	1002.8*	Regional	2.89	182.09	182.33		182.36	0.006585	0.87	4.04	23.26	0.62
ETR	1002.8*	100yr	2.84	182.09	182.33		182.36	0.006575	0.86	3.99	23.21	0.62
ETR	1002.8*	50yr	2.57	182.09	182.32		182.35	0.006526	0.83	3.75	22.94	0.61
ETR	1002.7*	Check	3.69	182.07	182.33		182.37	0.006531	0.95	4.78	25.13	0.63
ETR	1002.7*	Regional	2.89	182.07	182.30		182.33	0.006356	0.86	4.10	24.33	0.61
ETR	1002.7*	100yr	2.84	182.07	182.30		182.33	0.006346	0.85	4.06	24.26	0.61
ETR	1002.7*	50yr	2.57	182.07	182.29		182.32	0.006284	0.82	3.81	23.94	0.60
ETR	1002.6*	Check	3.69	182.05	182.30		182.34	0.006457	0.94	4.84	26.34	0.63
ETR	1002.6*	Regional	2.89	182.05	182.27		182.30	0.006290	0.85	4.14	25.57	0.61
ETR	1002.6*	100yr	2.84	182.05	182.27		182.30	0.006279	0.84	4.10	25.50	0.60
ETR	1002.6*	50yr	2.57	182.05	182.26		182.29	0.006229	0.81	3.84	25.16	0.60
ETR	1002.5*	Check	3.69	182.02	182.27		182.31	0.006357	0.92	4.92	27.81	0.62
ETR	1002.5*	Regional	2.89	182.02	182.25		182.28	0.006119	0.84	4.22	26.77	0.60
ETR	1002.5*	100yr	2.84	182.02	182.24		182.27	0.006103	0.83	4.17	26.70	0.60
ETR	1002.5*	50yr	2.57	182.02	182.23		182.26	0.006037	0.80	3.91	26.32	0.59
ETR	1002.4*	Check	3.69	182.00	182.24		182.28	0.006539	0.92	4.94	29.39	0.63
ETR	1002.4*	Regional	2.89	182.00	182.22		182.25	0.006288	0.84	4.23	28.45	0.60
ETR	1002.4*	100yr	2.84	182.00	182.21		182.24	0.006270	0.83	4.18	28.36	0.60
ETR	1002.4*	50yr	2.57	182.00	182.20		182.23	0.006202	0.80	3.92	27.83	0.59
ETR	1002.3*	Check	3.69	181.98	182.21		182.24	0.007149	0.94	4.91	31.65	0.65
ETR	1002.3*	Regional	2.89	181.98	182.18		182.22	0.006852	0.85	4.19	30.48	0.62
ETR	1002.3*	100yr	2.84	181.98	182.18		182.21	0.006833	0.84	4.14	30.40	0.62
ETR	1002.3*	50yr	2.57	181.98	182.17		182.20	0.006733	0.81	3.88	29.69	0.61
ETR	1002.2*	Check	3.69	181.95	182.17		182.21	0.008167	0.96	4.87	34.73	0.69
ETR	1002.2*	Regional	2.89	181.95	182.15		182.18	0.007840	0.87	4.14	33.26	0.66
ETR	1002.2*	100yr	2.84	181.95	182.15		182.18	0.007817	0.86	4.09	33.17	0.66
ETR	1002.2*	50yr	2.57	181.95	182.14		182.17	0.007656	0.83	3.83	32.35	0.65
ETR	1002.1*	Check	3.69	181.93	182.13		182.17	0.009205	0.95	4.93	37.47	0.72
ETR	1002.1*	Regional	2.89	181.93	182.11		182.14	0.009290	0.88	4.13	35.90	0.71
ETR	1002.1*	100yr	2.84	181.93	182.11		182.14	0.009252	0.87	4.09	35.83	0.70
ETR	1002.1*	50yr	2.57	181.93	182.10		182.13	0.008516	0.82	3.92	35.58	0.67
ETR	1002	Check	3.69	181.91	182.06	182.05	182.11	0.016698	1.06	4.15	36.79	0.92
ETR	1002	Regional	2.89	181.91	182.04	182.03	182.08	0.016156	0.95	3.54	35.06	0.89
ETR	1002	100yr	2.84	181.91	182.04	182.03	182.08	0.016362	0.95	3.48	34.83	0.89
ETR	1002	50yr	2.57	181.91	182.03	182.02	182.07	0.019878	0.97	3.03	32.92	0.96
ETR	1001.89*	Check	3.69	181.82	181.97	181.96	182.03	0.019609	1.12	3.94	36.75	0.99
ETR	1001.89*	Regional	2.89	181.82	181.95	181.95	182.00	0.021326	1.04	3.23	34.46	1.01
ETR	1001.89*	100yr	2.84	181.82	181.95	181.95	182.00	0.020941	1.03	3.21	34.43	1.00
ETR	1001.89*	50yr	2.57	181.82	181.96	181.94	181.99	0.014524	0.88	3.40	34.70	0.84

HEC-RAS Plan: Prop River: OE02 Reach: ETR (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ETR	1001.78*	Check	3.69	181.74	181.90	181.89	181.94	0.016875	1.07	4.18	37.95	0.93
ETR	1001.78*	Regional	2.89	181.74	181.88	181.88	181.92	0.015541	0.95	3.62	36.39	0.87
ETR	1001.78*	100yr	2.84	181.74	181.88	181.88	181.92	0.015918	0.95	3.55	35.83	0.88
ETR	1001.78*	50yr	2.57	181.74	181.86	181.86	181.91	0.021074	0.99	3.00	33.93	0.99
ETR	1001.67*	Check	3.69	181.66	181.81	181.81	181.86	0.019378	1.12	4.01	38.05	0.99
ETR	1001.67*	Regional	2.89	181.66	181.79	181.78	181.84	0.019847	1.02	3.35	36.33	0.98
ETR	1001.67*	100yr	2.84	181.66	181.79	181.78	181.83	0.019996	1.02	3.30	36.24	0.98
ETR	1001.67*	50yr	2.57	181.66	181.79	181.79	181.83	0.016476	0.92	3.29	35.79	0.89
ETR	1001.56*	Check	3.69	181.57	181.73	181.72	181.78	0.017285	1.08	4.23	40.29	0.94
ETR	1001.56*	Regional	2.89	181.57	181.71	181.71	181.75	0.017275	0.98	3.54	37.71	0.92
ETR	1001.56*	100yr	2.84	181.57	181.71	181.71	181.75	0.017209	0.98	3.50	37.66	0.91
ETR	1001.56*	50yr	2.57	181.57	181.70	181.70	181.74	0.020752	0.99	3.05	35.97	0.99
ETR	1001.45*	Check	3.69	181.49	181.64	181.64	181.70	0.019381	1.12	4.09	40.70	0.99
ETR	1001.45*	Regional	2.89	181.49	181.63	181.61	181.67	0.019883	1.03	3.40	37.80	0.98
ETR	1001.45*	100yr	2.84	181.49	181.62	181.62	181.67	0.020014	1.02	3.35	37.73	0.98
ETR	1001.45*	50yr	2.57	181.49	181.63	181.61	181.66	0.014128	0.89	3.53	37.98	0.83
ETR	1001.34*	Check	3.69	181.41	181.56	181.55	181.61	0.017423	1.08	4.31	41.99	0.94
ETR	1001.34*	Regional	2.89	181.41	181.55	181.54	181.59	0.015812	0.96	3.75	41.04	0.88
ETR	1001.34*	100yr	2.84	181.41	181.55	181.54	181.59	0.015588	0.95	3.72	41.00	0.87
ETR	1001.34*	50yr	2.57	181.41	181.53	181.53	181.58	0.022607	1.03	3.02	38.11	1.03
ETR	1001.23*	Check	3.69	181.32	181.48	181.48	181.53	0.019853	1.12	4.19	43.27	1.00
ETR	1001.23*	Regional	2.89	181.32	181.46	181.44	181.50	0.022334	1.06	3.37	41.10	1.03
ETR	1001.23*	100yr	2.84	181.32	181.46	181.44	181.50	0.022967	1.07	3.29	40.99	1.04
ETR	1001.23*	50yr	2.57	181.32	181.46	181.46	181.49	0.015651	0.91	3.52	41.74	0.87
ETR	1001.11*	Check	3.69	181.24	181.39	181.41	181.44	0.021366	1.14	4.18	45.36	1.03
ETR	1001.11*	Regional	2.89	181.24	181.38	181.38	181.42	0.015881	0.95	3.91	45.29	0.88
ETR	1001.11*	100yr	2.84	181.24	181.38	181.38	181.42	0.015585	0.94	3.89	45.28	0.87
ETR	1001.11*	50yr	2.57	181.24	181.36	181.37	181.41	0.025723	1.07	2.99	41.97	1.09
ETR	1001	Check	3.69	181.16	181.33	181.32	181.36	0.009608	0.86	5.61	49.95	0.71
ETR	1001	Regional	2.89	181.16	181.31	181.28	181.34	0.009611	0.79	4.74	47.98	0.70
ETR	1001	100yr	2.84	181.16	181.31	181.28	181.34	0.009612	0.79	4.68	47.88	0.70
ETR	1001	50yr	2.57	181.16	181.25	181.28	181.35	0.074650	1.48	2.07	34.68	1.76
ETR	1000.83*	Check	3.69	181.11	181.29		181.32	0.009418	0.88	5.91	58.22	0.71
ETR	1000.83*	Regional	2.89	181.11	181.27		181.30	0.008703	0.79	5.09	54.31	0.67
ETR	1000.83*	100yr	2.84	181.11	181.27		181.29	0.008681	0.79	5.03	54.21	0.67
ETR	1000.83*	50yr	2.57	181.11	181.27	181.21	181.29	0.008445	0.76	4.73	51.22	0.66
ETR	1000.66*	Check	3.69	181.06	181.24		181.27	0.009679	0.91	6.13	61.90	0.72
ETR	1000.66*	Regional	2.89	181.06	181.23		181.25	0.009833	0.86	5.14	61.90	0.72
ETR	1000.66*	100yr	2.84	181.06	181.22		181.25	0.009793	0.85	5.08	61.90	0.72
ETR	1000.66*	50yr	2.57	181.06	181.22		181.24	0.009746	0.83	4.73	61.64	0.71
ETR	1000.49*	Check	3.69	181.01	181.20		181.22	0.009684	0.92	6.20	63.53	0.73
ETR	1000.49*	Regional	2.89	181.01	181.18		181.20	0.009826	0.86	5.16	61.69	0.72
ETR	1000.49*	100yr	2.84	181.01	181.18		181.20	0.009931	0.86	5.08	61.60	0.72
ETR	1000.49*	50yr	2.57	181.01	181.17		181.20	0.010121	0.84	4.68	61.16	0.72
ETR	1000.33*	Check	3.69	180.97	181.15		181.18	0.010406	0.94	5.90	61.81	0.75
ETR	1000.33*	Regional	2.89	180.97	181.13		181.15	0.010998	0.90	4.81	57.24	0.76
ETR	1000.33*	100yr	2.84	180.97	181.13		181.15	0.010891	0.89	4.76	57.17	0.75
ETR	1000.33*	50yr	2.57	180.97	181.12		181.15	0.011113	0.87	4.37	52.48	0.75
ETR	1000.16*	Check	3.69	180.92	181.09		181.12	0.010875	0.94	5.54	48.37	0.76
ETR	1000.16*	Regional	2.89	180.92	181.08		181.10	0.010669	0.86	4.72	45.35	0.74
ETR	1000.16*	100yr	2.84	180.92	181.08		181.10	0.010947	0.86	4.63	45.19	0.75
ETR	1000.16*	50yr	2.57	180.92	181.07		181.09	0.010707	0.83	4.37	44.41	0.73
ETR	1000	Check	3.69	180.87	181.05	181.01	181.07	0.009969	0.87	5.64	43.81	0.72
ETR	1000	Regional	2.89	180.87	181.03	180.99	181.05	0.008614	0.76	5.05	42.80	0.66
ETR	1000	100yr	2.84	180.87	181.03	180.99	181.05	0.008612	0.75	5.00	42.71	0.66
ETR	1000	50yr	2.57	180.87	181.03	180.99	181.04	0.008618	0.73	4.69	42.12	0.66

HEC-RAS Plan: Prop River: OE03 Reach: ETR

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ETR	1001	Check	2.04	185.50	185.65	185.65	185.72	0.025927	1.28	1.91	15.39	1.14
ETR	1001	Regional	1.13	185.50	185.60	185.60	185.66	0.041024	1.20	1.12	14.14	1.33
ETR	1001	100yr	1.57	185.50	185.65	185.65	185.69	0.018752	1.05	1.79	15.22	0.96
ETR	1001	50yr	1.42	185.50	185.62	185.62	185.68	0.032939	1.22	1.40	14.63	1.23
ETR	1000.83*	Check	2.04	185.21	185.38	185.39	185.46	0.028895	1.40	1.79	15.09	1.21
ETR	1000.83*	Regional	1.13	185.21	185.32	185.35	185.42	0.074427	1.59	0.87	13.24	1.79
ETR	1000.83*	100yr	1.57	185.21	185.35	185.39	185.44	0.040304	1.44	1.34	14.06	1.39
ETR	1000.83*	50yr	1.42	185.21	185.36	185.37	185.42	0.024951	1.18	1.47	14.29	1.10
ETR	1000.66*	Check	2.04	184.92	185.12	185.13	185.20	0.026607	1.40	1.77	14.62	1.18
ETR	1000.66*	Regional	1.13	184.92	185.09	185.09	185.13	0.015412	0.97	1.42	13.97	0.88
ETR	1000.66*	100yr	1.57	184.92	185.10	185.11	185.17	0.022035	1.21	1.58	14.29	1.06
ETR	1000.66*	50yr	1.42	184.92	185.09	185.10	185.16	0.029830	1.31	1.32	13.77	1.21
ETR	1000.5*	Check	2.04	184.62	184.84	184.87	184.93	0.028633	1.45	1.67	13.78	1.22
ETR	1000.5*	Regional	1.13	184.62	184.78	184.81	184.88	0.048321	1.48	0.89	11.39	1.49
ETR	1000.5*	100yr	1.57	184.62	184.81	184.84	184.91	0.034664	1.45	1.29	12.68	1.31
ETR	1000.5*	50yr	1.42	184.62	184.82	184.83	184.89	0.026736	1.28	1.32	12.75	1.15
ETR	1000.3*	Check	2.04	184.33	184.80	184.60	184.81	0.000854	0.44	5.81	22.90	0.24
ETR	1000.3*	Regional	1.13	184.33	184.53	184.54	184.59	0.021170	1.11	1.18	12.08	1.02
ETR	1000.3*	100yr	1.57	184.33	184.78	184.58	184.78	0.000658	0.37	5.29	21.93	0.21
ETR	1000.3*	50yr	1.42	184.33	184.77	184.56	184.78	0.000570	0.34	5.18	21.74	0.20
ETR	1000.1*	Check	2.04	184.04	184.80		184.81	0.000081	0.20	13.98	33.99	0.08
ETR	1000.1*	Regional	1.13	184.04	184.33	184.27	184.35	0.004622	0.63	2.08	14.75	0.50
ETR	1000.1*	100yr	1.57	184.04	184.78		184.78	0.000057	0.17	13.17	33.35	0.07
ETR	1000.1*	50yr	1.42	184.04	184.78		184.78	0.000048	0.15	13.00	33.22	0.06
ETR	1000	Check	2.04	183.75	184.80	184.05	184.81	0.000016	0.12	25.62	41.82	0.04
ETR	1000	Regional	1.13	183.75	184.34	183.99	184.34	0.000107	0.19	8.26	29.46	0.09
ETR	1000	100yr	1.57	183.75	184.78	184.02	184.78	0.000011	0.09	24.61	41.34	0.03
ETR	1000	50yr	1.42	183.75	184.78	184.01	184.78	0.000009	0.09	24.39	41.24	0.03
ETR	999.57		Culvert									
ETR	999	Check	2.04	182.26	183.12		183.12	0.000001	0.02	122.09	178.11	0.01
ETR	999	Regional	1.13	182.26	182.72		182.72	0.000003	0.03	55.54	159.76	0.01
ETR	999	100yr	1.57	182.26	182.94		182.94	0.000001	0.02	90.87	166.47	0.01
ETR	999	50yr	1.42	182.26	182.88		182.88	0.000001	0.02	81.09	164.74	0.01
ETR	998.83*	Check	2.80	182.21	183.12	182.29	183.12	0.000001	0.03	122.74	173.19	0.01
ETR	998.83*	Regional	1.45	182.21	182.72	182.28	182.72	0.000004	0.04	57.37	155.81	0.02
ETR	998.83*	100yr	2.15	182.21	182.94	182.29	182.94	0.000002	0.03	91.92	165.74	0.01
ETR	998.83*	50yr	1.95	182.21	182.88	182.28	182.88	0.000002	0.03	82.30	161.08	0.01
ETR	998.45		Culvert									
ETR	997.99*	Check	2.80	181.93	182.14		182.16	0.005029	0.67	5.55	52.60	0.52
ETR	997.99*	Regional	1.45	181.93	182.09		182.10	0.005473	0.55	3.16	41.97	0.51
ETR	997.99*	100yr	2.15	181.93	182.12		182.13	0.005176	0.62	4.46	49.38	0.52
ETR	997.99*	50yr	1.95	181.93	182.11		182.13	0.005189	0.60	4.11	47.56	0.52
ETR	997.82*	Check	2.80	181.88	182.09		182.11	0.005148	0.69	5.19	45.50	0.53
ETR	997.82*	Regional	1.45	181.88	182.04		182.05	0.005482	0.56	3.07	32.73	0.52
ETR	997.82*	100yr	2.15	181.88	182.07		182.09	0.005365	0.64	4.17	42.45	0.53
ETR	997.82*	50yr	1.95	181.88	182.06		182.08	0.005425	0.62	3.85	41.00	0.53
ETR	997.66*	Check	2.80	181.82	182.04		182.06	0.005097	0.71	5.03	41.75	0.53
ETR	997.66*	Regional	1.45	181.82	181.99		182.00	0.005382	0.56	3.05	29.67	0.52
ETR	997.66*	100yr	2.15	181.82	182.02		182.04	0.005237	0.65	4.08	36.71	0.53
ETR	997.66*	50yr	1.95	181.82	182.01		182.03	0.005269	0.63	3.79	35.32	0.53
ETR	997.49*	Check	2.80	181.77	182.00		182.02	0.005053	0.72	4.94	39.10	0.53
ETR	997.49*	Regional	1.45	181.77	181.94		181.95	0.005307	0.57	3.05	28.15	0.51
ETR	997.49*	100yr	2.15	181.77	181.97		181.99	0.005222	0.66	4.03	32.22	0.53
ETR	997.49*	50yr	1.95	181.77	181.96		181.98	0.005288	0.64	3.76	31.85	0.53
ETR	997.33*	Check	2.80	181.71	181.95		181.97	0.004914	0.72	4.92	37.08	0.53
ETR	997.33*	Regional	1.45	181.71	181.89		181.90	0.005010	0.57	3.11	26.99	0.50
ETR	997.33*	100yr	2.15	181.71	181.92		181.94	0.004955	0.66	4.07	29.88	0.52
ETR	997.33*	50yr	1.95	181.71	181.91		181.93	0.005098	0.64	3.78	29.19	0.52
ETR	997.17*	Check	2.80	181.66	181.90		181.92	0.005304	0.75	4.80	34.77	0.55
ETR	997.17*	Regional	1.45	181.66	181.85		181.86	0.004912	0.57	3.15	26.27	0.50
ETR	997.17*	100yr	2.15	181.66	181.88		181.90	0.004746	0.65	4.12	28.56	0.51

HEC-RAS Plan: Prop River: OE03 Reach: ETR (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ETR	997.17*	50yr	1.95	181.66	181.87		181.88	0.005347	0.65	3.72	27.66	0.53
ETR	997	Check	2.80	181.60	181.82	181.79	181.85	0.011041	0.94	3.70	26.02	0.77
ETR	997	Regional	1.45	181.60	181.76	181.73	181.78	0.012703	0.81	2.21	21.17	0.78
ETR	997	100yr	2.15	181.60	181.79	181.77	181.82	0.012725	0.90	2.94	23.81	0.80
ETR	997	50yr	1.95	181.60	181.78	181.76	181.81	0.012707	0.87	2.74	22.96	0.79

HEC-RAS Plan: Prop River: OE04 Reach: ETR

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ETR	1018	Check	3.66	184.33	184.82	184.77	184.90	0.008070	1.23	3.12	14.44	0.73
ETR	1018	Regional	2.87	184.33	184.78	184.73	184.85	0.007920	1.12	2.63	12.36	0.71
ETR	1018	100yr	2.81	184.33	184.78	184.73	184.84	0.007903	1.11	2.59	12.19	0.70
ETR	1018	50yr	2.54	184.33	184.77	184.71	184.82	0.007931	1.07	2.42	11.44	0.70
ETR	1017.5*	Check	3.66	184.26	184.74		184.82	0.009486	1.29	3.02	13.27	0.78
ETR	1017.5*	Regional	2.87	184.26	184.70		184.77	0.009525	1.17	2.56	12.04	0.77
ETR	1017.5*	100yr	2.81	184.26	184.70		184.77	0.009537	1.16	2.52	11.93	0.76
ETR	1017.5*	50yr	2.54	184.26	184.68		184.75	0.009404	1.13	2.34	11.50	0.75
ETR	1017	Check	3.66	184.18	184.67		184.74	0.008908	1.22	3.37	14.99	0.75
ETR	1017	Regional	2.87	184.18	184.63		184.69	0.008706	1.13	2.83	13.64	0.73
ETR	1017	100yr	2.81	184.18	184.63		184.69	0.008676	1.12	2.78	13.53	0.73
ETR	1017	50yr	2.54	184.18	184.61		184.67	0.008520	1.09	2.59	13.01	0.72
ETR	1016.75*	Check	3.66	184.14	184.58		184.66	0.009406	1.26	3.25	15.37	0.78
ETR	1016.75*	Regional	2.87	184.14	184.55		184.61	0.009491	1.15	2.73	14.18	0.76
ETR	1016.75*	100yr	2.81	184.14	184.54		184.61	0.009492	1.14	2.69	14.06	0.76
ETR	1016.75*	50yr	2.54	184.14	184.53		184.59	0.009519	1.10	2.51	13.62	0.75
ETR	1016.5*	Check	3.66	184.09	184.49	184.47	184.57	0.010357	1.30	3.16	15.88	0.81
ETR	1016.5*	Regional	2.87	184.09	184.46	184.43	184.53	0.009908	1.17	2.69	14.79	0.78
ETR	1016.5*	100yr	2.81	184.09	184.46	184.43	184.52	0.009881	1.16	2.65	14.71	0.78
ETR	1016.5*	50yr	2.54	184.09	184.45	184.43	184.51	0.009763	1.11	2.48	14.39	0.76
ETR	1016.3*	Check	3.66	184.04	184.40	184.38	184.48	0.011446	1.33	3.13	16.43	0.85
ETR	1016.3*	Regional	2.87	184.04	184.36	184.35	184.44	0.011657	1.23	2.61	15.43	0.84
ETR	1016.3*	100yr	2.81	184.04	184.36	184.34	184.43	0.011673	1.22	2.57	15.33	0.84
ETR	1016.3*	50yr	2.54	184.04	184.35	184.33	184.42	0.011721	1.17	2.39	14.92	0.83
ETR	1016	Check	3.66	183.99	184.34		184.40	0.007108	1.13	3.85	18.36	0.68
ETR	1016	Regional	2.87	183.99	184.31		184.35	0.006858	1.02	3.28	17.28	0.65
ETR	1016	100yr	2.81	183.99	184.30		184.35	0.006864	1.01	3.23	17.19	0.65
ETR	1016	50yr	2.54	183.99	184.29		184.33	0.006820	0.97	3.01	16.78	0.65
ETR	1015.67*	Check	3.66	183.96	184.28		184.34	0.008218	1.16	3.90	20.99	0.72
ETR	1015.67*	Regional	2.87	183.96	184.25		184.30	0.007670	1.04	3.33	19.31	0.69
ETR	1015.67*	100yr	2.81	183.96	184.25		184.30	0.007710	1.03	3.27	19.10	0.69
ETR	1015.67*	50yr	2.54	183.96	184.24		184.28	0.007514	0.99	3.07	18.42	0.67
ETR	1015.34*	Check	3.66	183.93	184.22		184.28	0.010070	1.20	3.94	24.22	0.79
ETR	1015.34*	Regional	2.87	183.93	184.19		184.24	0.009580	1.09	3.35	22.65	0.75
ETR	1015.34*	100yr	2.81	183.93	184.19		184.24	0.009456	1.07	3.30	22.15	0.75
ETR	1015.34*	50yr	2.54	183.93	184.18		184.22	0.009243	1.03	3.09	21.48	0.73
ETR	1015	Check	3.66	183.89	184.16		184.20	0.008979	1.08	4.64	29.77	0.73
ETR	1015	Regional	2.87	183.89	184.14		184.17	0.008940	0.99	3.91	28.27	0.72
ETR	1015	100yr	2.81	183.89	184.13		184.17	0.009038	0.99	3.83	28.07	0.72
ETR	1015	50yr	2.54	183.89	184.12		184.16	0.009065	0.96	3.55	27.31	0.72
ETR	1014.67*	Check	3.66	183.82	184.07		184.11	0.009352	1.04	4.27	29.67	0.74
ETR	1014.67*	Regional	2.87	183.82	184.04		184.08	0.009412	0.96	3.56	27.78	0.73
ETR	1014.67*	100yr	2.81	183.82	184.04		184.08	0.009355	0.94	3.51	27.10	0.72
ETR	1014.67*	50yr	2.54	183.82	184.03		184.07	0.009346	0.91	3.26	26.28	0.71
ETR	1014.34*	Check	3.66	183.74	183.97		184.02	0.009688	0.98	4.08	28.66	0.74
ETR	1014.34*	Regional	2.87	183.74	183.95		183.99	0.009616	0.89	3.45	27.15	0.72
ETR	1014.34*	100yr	2.81	183.74	183.95		183.99	0.009607	0.88	3.40	27.04	0.72
ETR	1014.34*	50yr	2.54	183.74	183.94		183.98	0.009633	0.85	3.17	26.22	0.71
ETR	1014	Check	3.66	183.66	183.89		183.93	0.009026	0.89	4.25	29.20	0.70
ETR	1014	Regional	2.87	183.66	183.87		183.90	0.009196	0.81	3.61	27.71	0.69
ETR	1014	100yr	2.81	183.66	183.87		183.90	0.009210	0.81	3.55	27.57	0.69
ETR	1014	50yr	2.54	183.66	183.86		183.89	0.009208	0.78	3.32	27.03	0.68
ETR	1013.5*	Check	3.66	183.56	183.80		183.85	0.009097	0.93	4.07	26.58	0.71
ETR	1013.5*	Regional	2.87	183.56	183.78		183.82	0.009197	0.84	3.46	25.13	0.70
ETR	1013.5*	100yr	2.81	183.56	183.78		183.81	0.009191	0.84	3.42	25.06	0.70
ETR	1013.5*	50yr	2.54	183.56	183.77		183.80	0.009235	0.81	3.20	24.74	0.69
ETR	1013*	Check	3.66	183.46	183.72		183.77	0.008967	0.96	4.00	26.16	0.71
ETR	1013*	Regional	2.87	183.46	183.70		183.73	0.009148	0.88	3.36	24.62	0.70
ETR	1013*	100yr	2.81	183.46	183.69		183.73	0.009188	0.88	3.30	24.51	0.70
ETR	1013*	50yr	2.54	183.46	183.68		183.72	0.009209	0.84	3.08	23.83	0.70
ETR	1012.5*	Check	3.66	183.36	183.64		183.69	0.009246	1.01	3.95	25.71	0.73
ETR	1012.5*	Regional	2.87	183.36	183.61		183.65	0.009046	0.92	3.35	24.89	0.71

HEC-RAS Plan: Prop River: OE04 Reach: ETR (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ETR	1012.5*	100yr	2.81	183.36	183.61		183.65	0.008976	0.91	3.31	24.81	0.70
ETR	1012.5*	50yr	2.54	183.36	183.60		183.64	0.009002	0.88	3.07	24.06	0.70
ETR	1012*	Check	3.66	183.26	183.58		183.62	0.005561	0.90	4.73	25.20	0.59
ETR	1012*	Regional	2.87	183.26	183.52		183.57	0.009969	0.99	3.27	23.86	0.75
ETR	1012*	100yr	2.81	183.26	183.52		183.56	0.010115	0.99	3.20	23.80	0.75
ETR	1012*	50yr	2.54	183.26	183.51		183.55	0.010019	0.95	2.99	23.61	0.74
ETR	1011.5*	Check	3.66	183.16	183.56		183.58	0.002443	0.71	6.35	25.91	0.41
ETR	1011.5*	Regional	2.87	183.16	183.44		183.49	0.008465	0.97	3.51	22.98	0.70
ETR	1011.5*	100yr	2.81	183.16	183.44	183.41	183.48	0.007941	0.95	3.53	23.01	0.68
ETR	1011.5*	50yr	2.54	183.16	183.43		183.47	0.008564	0.94	3.21	22.69	0.70
ETR	1011	Check	3.66	183.06	183.55		183.56	0.001161	0.58	8.35	27.08	0.29
ETR	1011	Regional	2.87	183.06	183.33		183.39	0.013836	1.18	3.01	21.04	0.88
ETR	1011	100yr	2.81	183.06	183.32	183.32	183.38	0.017208	1.26	2.76	20.53	0.97
ETR	1011	50yr	2.54	183.06	183.32	183.32	183.37	0.014048	1.14	2.76	20.53	0.88
ETR	1010	Check	3.66	182.59	183.56	182.97	183.56	0.000053	0.19	27.04	44.14	0.07
ETR	1010	Regional	2.87	182.59	183.36	182.94	183.36	0.000099	0.22	18.67	41.30	0.09
ETR	1010	100yr	2.81	182.59	183.35	182.94	183.35	0.000105	0.22	18.03	41.06	0.09
ETR	1010	50yr	2.54	182.59	183.28	182.93	183.28	0.000145	0.24	15.13	39.68	0.11
ETR	1009.46	Culvert										
ETR	1009	Check	3.66	181.73	182.37		182.38	0.000810	0.56	9.54	35.49	0.25
ETR	1009	Regional	2.87	181.73	182.29		182.31	0.001139	0.59	6.75	34.33	0.29
ETR	1009	100yr	2.81	181.73	182.29		182.31	0.001098	0.58	6.74	34.32	0.29
ETR	1009	50yr	2.54	181.73	182.27		182.28	0.001129	0.57	6.01	32.76	0.29
ETR	1008	Check	3.66	181.69	182.35		182.37	0.001903	0.81	6.44	25.35	0.38
ETR	1008	Regional	2.87	181.69	182.26		182.29	0.002522	0.82	4.64	19.52	0.43
ETR	1008	100yr	2.81	181.69	182.26		182.29	0.002395	0.80	4.66	19.55	0.41
ETR	1008	50yr	2.54	181.69	182.24		182.27	0.002457	0.78	4.26	18.90	0.42
ETR	1007.5*	Check	3.66	181.71	182.32		182.36	0.002697	0.93	4.61	17.83	0.45
ETR	1007.5*	Regional	2.87	181.71	182.22		182.27	0.003956	0.96	3.18	11.60	0.52
ETR	1007.5*	100yr	2.81	181.71	182.23		182.27	0.003647	0.93	3.23	11.71	0.50
ETR	1007.5*	50yr	2.54	181.71	182.21		182.25	0.003631	0.89	3.01	11.17	0.50
ETR	1007	Check	4.02	181.74	182.27		182.33	0.004638	1.09	3.75	10.92	0.57
ETR	1007	Regional	3.06	181.74	182.14		182.22	0.010985	1.30	2.36	9.56	0.83
ETR	1007	100yr	3.09	181.74	182.14		182.23	0.010861	1.30	2.38	9.59	0.83
ETR	1007	50yr	2.80	181.74	182.12		182.20	0.011749	1.29	2.17	9.38	0.85
ETR	1006.33*	Check	4.02	181.62	182.26		182.30	0.001845	0.81	5.50	17.46	0.38
ETR	1006.33*	Regional	3.06	181.62	182.08		182.14	0.005977	1.05	2.93	10.53	0.63
ETR	1006.33*	100yr	3.09	181.62	182.08		182.14	0.005728	1.04	2.99	10.61	0.61
ETR	1006.33*	50yr	2.80	181.62	182.03		182.10	0.008300	1.14	2.47	10.01	0.72
ETR	1005.66*	Check	4.02	181.51	182.26		182.28	0.000738	0.60	8.61	25.72	0.25
ETR	1005.66*	Regional	3.06	181.51	182.07		182.09	0.002070	0.76	4.44	16.61	0.39
ETR	1005.66*	100yr	3.09	181.51	182.07		182.10	0.001987	0.75	4.55	16.79	0.38
ETR	1005.66*	50yr	2.80	181.51	182.01		182.04	0.003043	0.83	3.56	14.79	0.46
ETR	1004.99*	Check	4.02	181.39	182.27	181.82	182.27	0.000264	0.40	14.41	34.99	0.15
ETR	1004.99*	Regional	3.06	181.39	182.07	181.77	182.08	0.000707	0.53	7.58	29.21	0.24
ETR	1004.99*	100yr	3.09	181.39	182.07	181.77	182.08	0.000681	0.52	7.77	29.95	0.23
ETR	1004.99*	50yr	2.80	181.39	182.01	181.77	182.02	0.000962	0.57	6.09	23.26	0.27
ETR	1004.04	Culvert										
ETR	1003	Check	4.02	181.04	181.42	181.42	181.49	0.015631	1.37	3.92	27.10	0.96
ETR	1003	Regional	3.06	181.04	181.40	181.40	181.46	0.015240	1.24	3.27	27.10	0.93
ETR	1003	100yr	3.09	181.04	181.40	181.40	181.46	0.015223	1.25	3.29	27.10	0.93
ETR	1003	50yr	2.80	181.04	181.39	181.39	181.45	0.014499	1.19	3.12	27.10	0.90
ETR	1002.67*	Check	4.02	180.94	181.30	181.31	181.37	0.015859	1.37	4.08	31.09	0.96
ETR	1002.67*	Regional	3.06	180.94	181.27	181.28	181.34	0.015388	1.25	3.38	30.33	0.93
ETR	1002.67*	100yr	3.09	180.94	181.26	181.29	181.34	0.019399	1.36	3.12	29.80	1.04
ETR	1002.67*	50yr	2.80	180.94	181.26	181.27	181.33	0.019220	1.31	2.90	29.52	1.03
ETR	1002.34*	Check	4.02	180.85	181.16	181.17	181.24	0.018255	1.43	4.03	34.27	1.03
ETR	1002.34*	Regional	3.06	180.85	181.14	181.15	181.21	0.019249	1.34	3.16	30.75	1.03
ETR	1002.34*	100yr	3.09	180.85	181.15	181.15	181.21	0.015813	1.26	3.46	32.49	0.94
ETR	1002.34*	50yr	2.80	180.85	181.14	181.14	181.20	0.014829	1.19	3.29	32.38	0.91

HEC-RAS Plan: Prop River: OE04 Reach: ETR (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ETR	1002	Check	4.02	180.75	181.06	181.04	181.11	0.010138	1.15	5.12	38.02	0.78
ETR	1002	Regional	3.06	180.75	181.03	181.00	181.07	0.011017	1.08	3.96	32.63	0.79
ETR	1002	100yr	3.09	180.75	181.03	181.01	181.08	0.011018	1.08	3.99	32.77	0.79
ETR	1002	50yr	2.80	180.75	181.02	180.99	181.06	0.011740	1.07	3.59	30.93	0.81
ETR	1001.67*	Check	4.02	180.63	180.97	180.96	181.03	0.011301	1.25	4.41	32.98	0.83
ETR	1001.67*	Regional	3.06	180.63	180.94	180.92	180.99	0.010673	1.13	3.58	29.49	0.79
ETR	1001.67*	100yr	3.09	180.63	180.94	180.92	180.99	0.010640	1.13	3.61	29.55	0.79
ETR	1001.67*	50yr	2.80	180.63	180.93	180.98	180.98	0.010259	1.08	3.38	26.15	0.77
ETR	1001.33*	Check	4.02	180.50	180.88	180.86	180.95	0.010328	1.27	4.20	33.25	0.81
ETR	1001.33*	Regional	3.06	180.50	180.83	180.83	180.90	0.012992	1.25	3.05	21.93	0.88
ETR	1001.33*	100yr	3.09	180.50	180.84	180.83	180.90	0.012972	1.25	3.07	22.02	0.88
ETR	1001.33*	50yr	2.80	180.50	180.82	180.82	180.89	0.013801	1.24	2.78	21.12	0.89
ETR	1001	Check	4.02	180.37	180.77	180.76	180.86	0.012816	1.41	3.56	21.96	0.90
ETR	1001	Regional	3.06	180.37	180.75	180.73	180.81	0.010169	1.19	3.14	20.73	0.79
ETR	1001	100yr	3.09	180.37	180.75	180.74	180.82	0.010204	1.20	3.16	20.79	0.79
ETR	1001	50yr	2.80	180.37	180.75	180.72	180.80	0.008669	1.10	3.12	20.66	0.73
ETR	1000.5*	Check	4.02	180.34	180.72	180.72	180.77	0.008523	1.19	4.90	36.72	0.74
ETR	1000.5*	Regional	3.06	180.34	180.68	180.68	180.74	0.009125	1.13	3.75	36.12	0.75
ETR	1000.5*	100yr	3.09	180.34	180.68	180.68	180.74	0.009194	1.14	3.77	36.12	0.75
ETR	1000.5*	50yr	2.80	180.34	180.66	180.66	180.73	0.012867	1.23	2.81	26.48	0.87
ETR	1000	Check	4.02	180.30	180.66	180.61	180.69	0.004956	0.93	6.10	32.75	0.57
ETR	1000	Regional	3.06	180.30	180.62	180.59	180.65	0.004868	0.85	5.09	32.25	0.55
ETR	1000	100yr	3.09	180.30	180.63	180.59	180.65	0.004868	0.85	5.12	32.28	0.55
ETR	1000	50yr	2.80	180.30	180.61	180.57	180.64	0.004867	0.82	4.78	32.07	0.55

HEC-RAS Plan: Prop River: OE05 Reach: ETR

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ETR	1014	Check	4.16	182.61	182.95	182.86	182.97	0.002855	0.66	7.20	35.60	0.42
ETR	1014	Regional	3.79	182.61	182.94	182.83	182.96	0.002836	0.63	6.77	35.00	0.42
ETR	1014	100yr	3.20	182.61	182.92	182.82	182.93	0.002802	0.59	6.05	33.79	0.41
ETR	1014	50yr	2.89	182.61	182.91	182.81	182.92	0.002779	0.57	5.66	33.00	0.40
ETR	1013.5*	Check	4.16	182.59	182.88		182.93	0.007306	0.99	5.17	34.01	0.66
ETR	1013.5*	Regional	3.79	182.59	182.87		182.91	0.007436	0.96	4.78	32.70	0.66
ETR	1013.5*	100yr	3.20	182.59	182.85		182.89	0.007648	0.91	4.16	30.62	0.66
ETR	1013.5*	50yr	2.89	182.59	182.84		182.88	0.007777	0.89	3.83	29.82	0.66
ETR	1013	Check	4.16	182.57	182.86		182.88	0.003147	0.70	8.31	40.89	0.44
ETR	1013	Regional	3.79	182.57	182.85		182.86	0.003151	0.68	7.80	40.25	0.44
ETR	1013	100yr	3.20	182.57	182.83		182.84	0.003165	0.64	6.96	39.17	0.44
ETR	1013	50yr	2.89	182.57	182.82		182.83	0.003175	0.62	6.49	38.58	0.43
ETR	1012.7*	Check	4.16	182.53	182.83		182.85	0.003773	0.78	7.55	38.54	0.49
ETR	1012.7*	Regional	3.79	182.53	182.81		182.83	0.003788	0.76	7.08	37.96	0.49
ETR	1012.7*	100yr	3.20	182.53	182.79		182.81	0.003779	0.71	6.31	36.82	0.48
ETR	1012.7*	50yr	2.89	182.53	182.78		182.80	0.003784	0.69	5.89	36.29	0.47
ETR	1012.4*	Check	4.16	182.49	182.79		182.81	0.004333	0.84	7.06	37.10	0.52
ETR	1012.4*	Regional	3.79	182.49	182.77		182.80	0.004355	0.81	6.61	36.51	0.52
ETR	1012.4*	100yr	3.20	182.49	182.75		182.77	0.004420	0.77	5.86	35.66	0.52
ETR	1012.4*	50yr	2.89	182.49	182.74		182.76	0.004465	0.75	5.44	35.11	0.52
ETR	1012.1*	Check	4.16	182.45	182.74		182.77	0.004829	0.88	6.68	35.43	0.55
ETR	1012.1*	Regional	3.79	182.45	182.73		182.75	0.004850	0.85	6.24	34.75	0.55
ETR	1012.1*	100yr	3.20	182.45	182.71		182.73	0.004900	0.80	5.53	33.72	0.54
ETR	1012.1*	50yr	2.89	182.45	182.70		182.72	0.004901	0.78	5.14	33.00	0.54
ETR	1011.8*	Check	4.16	182.41	182.70		182.72	0.004892	0.87	6.57	34.09	0.55
ETR	1011.8*	Regional	3.79	182.41	182.68		182.71	0.004935	0.85	6.14	33.57	0.55
ETR	1011.8*	100yr	3.20	182.41	182.66		182.69	0.004941	0.80	5.45	32.49	0.54
ETR	1011.8*	50yr	2.89	182.41	182.65		182.67	0.004962	0.77	5.07	32.03	0.54
ETR	1011.5*	Check	4.16	182.37	182.65		182.68	0.004968	0.87	6.52	33.68	0.56
ETR	1011.5*	Regional	3.79	182.37	182.64		182.66	0.005079	0.85	6.07	33.16	0.56
ETR	1011.5*	100yr	3.20	182.37	182.62		182.64	0.005070	0.80	5.40	32.10	0.55
ETR	1011.5*	50yr	2.89	182.37	182.61		182.63	0.005067	0.77	5.03	31.56	0.54
ETR	1011.2*	Check	4.16	182.33	182.61		182.63	0.004771	0.85	6.64	33.71	0.55
ETR	1011.2*	Regional	3.79	182.33	182.59		182.62	0.004998	0.83	6.13	33.19	0.55
ETR	1011.2*	100yr	3.20	182.33	182.57		182.59	0.004993	0.78	5.46	32.27	0.54
ETR	1011.2*	50yr	2.89	182.33	182.56		182.58	0.004987	0.75	5.09	31.76	0.54
ETR	1010.9*	Check	4.16	182.29	182.57		182.59	0.004306	0.81	6.91	34.17	0.52
ETR	1010.9*	Regional	3.79	182.29	182.55		182.57	0.004809	0.81	6.25	33.43	0.54
ETR	1010.9*	100yr	3.20	182.29	182.53		182.55	0.004897	0.77	5.54	32.78	0.54
ETR	1010.9*	50yr	2.89	182.29	182.52		182.54	0.004907	0.74	5.17	32.36	0.53
ETR	1010.6*	Check	4.16	182.25	182.54		182.56	0.003535	0.75	7.50	36.10	0.47
ETR	1010.6*	Regional	3.79	182.25	182.51		182.53	0.004304	0.77	6.56	34.21	0.51
ETR	1010.6*	100yr	3.20	182.25	182.49		182.51	0.004505	0.73	5.77	33.49	0.52
ETR	1010.6*	50yr	2.89	182.25	182.47		182.49	0.004603	0.71	5.35	33.10	0.52
ETR	1010.3*	Check	4.16	182.21	182.51		182.53	0.002573	0.67	8.45	37.67	0.41
ETR	1010.3*	Regional	3.79	182.21	182.48		182.50	0.003507	0.71	7.14	36.20	0.47
ETR	1010.3*	100yr	3.20	182.21	182.45		182.47	0.003663	0.68	6.26	34.52	0.47
ETR	1010.3*	50yr	2.89	182.21	182.44		182.45	0.003722	0.65	5.80	33.91	0.47
ETR	1010	Check	4.16	182.17	182.50		182.51	0.001735	0.58	9.75	39.40	0.34
ETR	1010	Regional	3.79	182.17	182.45		182.47	0.002497	0.63	8.09	37.92	0.40
ETR	1010	100yr	3.20	182.17	182.43		182.44	0.002610	0.60	7.11	36.83	0.40
ETR	1010	50yr	2.89	182.17	182.42		182.43	0.002591	0.57	6.63	35.35	0.39
ETR	1009.75*	Check	4.16	182.07	182.47		182.49	0.002596	0.78	7.50	32.78	0.43
ETR	1009.75*	Regional	3.79	182.07	182.40		182.44	0.004983	0.95	5.51	29.82	0.57
ETR	1009.75*	100yr	3.20	182.07	182.37		182.41	0.006030	0.96	4.54	28.86	0.61
ETR	1009.75*	50yr	2.89	182.07	182.35		182.39	0.006463	0.95	4.10	28.47	0.63
ETR	1009.5*	Check	4.16	181.97	182.44		182.47	0.002106	0.78	6.90	26.48	0.39
ETR	1009.5*	Regional	3.79	181.97	182.36		182.40	0.004542	0.98	4.78	21.76	0.55
ETR	1009.5*	100yr	3.20	181.97	182.27		182.34	0.010348	1.21	3.11	18.26	0.80
ETR	1009.5*	50yr	2.89	181.97	182.26	182.24	182.32	0.010560	1.17	2.86	17.31	0.80
ETR	1009.2*	Check	4.16	181.87	182.44		182.46	0.001235	0.67	7.70	21.90	0.31
ETR	1009.2*	Regional	3.79	181.87	182.34		182.37	0.002380	0.80	5.69	19.45	0.41

HEC-RAS Plan: Prop River: OE05 Reach: ETR (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ETR	1009.2*	100yr	3.20	181.87	182.19		182.26	0.009500	1.20	3.07	15.61	0.77
ETR	1009.2*	50yr	2.89	181.87	182.17	182.13	182.24	0.010246	1.19	2.76	14.59	0.79
ETR	1009	Check	4.16	181.77	182.43		182.45	0.000715	0.57	9.02	20.78	0.24
ETR	1009	Regional	3.79	181.77	182.33		182.35	0.001213	0.65	7.03	19.04	0.30
ETR	1009	100yr	3.20	181.77	182.16		182.20	0.004312	0.94	3.96	15.77	0.54
ETR	1009	50yr	2.89	181.77	182.05	182.04	182.13	0.014412	1.36	2.37	12.69	0.93
ETR	1008.5*	Check	4.16	181.38	182.44		182.44	0.000146	0.35	15.37	24.51	0.12
ETR	1008.5*	Regional	3.79	181.38	182.34		182.34	0.000184	0.36	13.07	22.35	0.13
ETR	1008.5*	100yr	3.20	181.38	182.17		182.18	0.000305	0.40	9.63	19.69	0.16
ETR	1008.5*	50yr	2.89	181.38	182.08		182.09	0.000435	0.43	7.91	18.36	0.19
ETR	1008	Check	4.16	181.00	182.44	181.45	182.44	0.000051	0.25	21.44	25.33	0.07
ETR	1008	Regional	3.79	181.00	182.34	181.43	182.34	0.000058	0.26	19.03	23.84	0.08
ETR	1008	100yr	3.20	181.00	182.17	181.41	182.18	0.000074	0.26	15.29	21.72	0.08
ETR	1008	50yr	2.89	181.00	182.08	181.40	182.09	0.000087	0.26	13.39	20.58	0.09
ETR	1007.54		Culvert									
ETR	1007	Check	4.16	180.90	181.57		181.59	0.000996	0.66	7.80	23.57	0.29
ETR	1007	Regional	3.79	180.90	181.51		181.53	0.001303	0.70	6.44	22.01	0.32
ETR	1007	100yr	3.20	180.90	181.47		181.49	0.001215	0.65	5.73	18.78	0.31
ETR	1007	50yr	2.89	180.90	181.45		181.47	0.001160	0.61	5.37	16.92	0.30
ETR	1006.5*	Check	4.16	180.88	181.55		181.58	0.001602	0.79	6.01	16.89	0.36
ETR	1006.5*	Regional	3.79	180.88	181.48		181.52	0.002174	0.84	4.99	14.93	0.40
ETR	1006.5*	100yr	3.20	180.88	181.45		181.48	0.002044	0.77	4.52	14.39	0.39
ETR	1006.5*	50yr	2.89	180.88	181.43		181.46	0.001978	0.74	4.24	13.83	0.38
ETR	1006	Check	4.16	180.86	181.51		181.56	0.003394	1.00	4.74	18.30	0.50
ETR	1006	Regional	3.79	180.86	181.37	181.35	181.48	0.011343	1.41	2.80	12.47	0.86
ETR	1006	100yr	3.20	180.86	181.32	181.32	181.43	0.016016	1.47	2.20	11.04	0.98
ETR	1006	50yr	2.89	180.86	181.31	181.31	181.41	0.017292	1.45	2.01	10.46	1.01
ETR	1005.5*	Check	4.16	180.69	181.52		181.53	0.000698	0.57	9.72	26.05	0.24
ETR	1005.5*	Regional	3.79	180.69	181.40		181.42	0.001562	0.72	6.66	23.05	0.34
ETR	1005.5*	100yr	3.20	180.69	181.30	181.17	181.33	0.002807	0.83	4.64	19.87	0.44
ETR	1005.5*	50yr	2.89	180.69	181.23	181.16	181.27	0.005351	0.98	3.34	15.94	0.59
ETR	1005	Check	4.83	180.53	181.52	181.06	181.53	0.000247	0.39	17.58	35.43	0.15
ETR	1005	Regional	4.19	180.53	181.40	181.04	181.41	0.000404	0.44	13.34	34.26	0.18
ETR	1005	100yr	3.72	180.53	181.31	181.02	181.31	0.000653	0.50	10.22	30.99	0.23
ETR	1005	50yr	3.37	180.53	181.23	181.01	181.24	0.001040	0.56	8.02	28.36	0.28
ETR	1004.01		Culvert									
ETR	1003	Check	4.83	180.11	180.66		180.72	0.006615	1.21	5.29	28.27	0.67
ETR	1003	Regional	4.19	180.11	180.64		180.69	0.006554	1.15	4.71	26.74	0.66
ETR	1003	100yr	3.72	180.11	180.62		180.67	0.006436	1.10	4.29	25.20	0.65
ETR	1003	50yr	3.37	180.11	180.61		180.66	0.006312	1.06	3.97	24.07	0.64
ETR	1002.5*	Check	4.83	180.10	180.61		180.67	0.006829	1.21	5.39	29.31	0.68
ETR	1002.5*	Regional	4.19	180.10	180.59		180.64	0.006681	1.15	4.83	27.77	0.67
ETR	1002.5*	100yr	3.72	180.10	180.57		180.63	0.006568	1.10	4.41	26.61	0.66
ETR	1002.5*	50yr	3.37	180.10	180.56		180.61	0.006535	1.06	4.07	25.83	0.65
ETR	1002	Check	4.83	180.10	180.55		180.62	0.007614	1.24	5.35	30.46	0.71
ETR	1002	Regional	4.19	180.10	180.53		180.59	0.007455	1.18	4.80	29.09	0.70
ETR	1002	100yr	3.72	180.10	180.52		180.57	0.007251	1.12	4.40	28.08	0.68
ETR	1002	50yr	3.37	180.10	180.51		180.56	0.007196	1.08	4.06	26.98	0.68
ETR	1001.5*	Check	4.83	180.12	180.48		180.53	0.007988	1.17	5.77	32.14	0.72
ETR	1001.5*	Regional	4.19	180.12	180.47		180.51	0.007882	1.12	5.22	31.15	0.71
ETR	1001.5*	100yr	3.72	180.12	180.45		180.50	0.007740	1.07	4.80	30.10	0.69
ETR	1001.5*	50yr	3.37	180.12	180.44		180.48	0.007696	1.03	4.48	29.80	0.69
ETR	1001	Check	4.83	180.14	180.41		180.45	0.007737	1.06	6.27	33.74	0.69
ETR	1001	Regional	4.19	180.14	180.40		180.43	0.007599	1.00	5.72	32.96	0.68
ETR	1001	100yr	3.72	180.14	180.38		180.42	0.007538	0.96	5.29	32.33	0.67
ETR	1001	50yr	3.37	180.14	180.37		180.40	0.007454	0.92	4.96	31.85	0.66
ETR	1000.67*	Check	4.83	180.08	180.35		180.39	0.008145	1.03	5.88	34.59	0.70
ETR	1000.67*	Regional	4.19	180.08	180.33		180.37	0.008138	0.97	5.33	33.89	0.69
ETR	1000.67*	100yr	3.72	180.08	180.32		180.36	0.008066	0.93	4.92	33.12	0.68
ETR	1000.67*	50yr	3.37	180.08	180.31		180.35	0.008073	0.90	4.59	32.65	0.67

HEC-RAS Plan: Prop River: OE05 Reach: ETR (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ETR	1000.34*	Check	4.83	180.02	180.29		180.33	0.007733	0.96	5.79	36.27	0.67
ETR	1000.34*	Regional	4.19	180.02	180.27		180.31	0.007787	0.91	5.21	34.67	0.67
ETR	1000.34*	100yr	3.72	180.02	180.26		180.30	0.007866	0.87	4.78	33.61	0.66
ETR	1000.34*	50yr	3.37	180.02	180.25		180.28	0.007882	0.84	4.45	32.47	0.66
ETR	1000	Check	4.83	179.96	180.25	180.18	180.28	0.004949	0.79	6.44	33.63	0.54
ETR	1000	Regional	4.19	179.96	180.24	180.17	180.26	0.004951	0.74	5.87	32.67	0.54
ETR	1000	100yr	3.72	179.96	180.22	180.16	180.25	0.004948	0.71	5.44	31.93	0.53
ETR	1000	50yr	3.37	179.96	180.21	180.15	180.24	0.004946	0.68	5.11	31.34	0.52

HEC-RAS Plan: Ref River: S-E01 Reach: CVT

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
CVT	1003	(Ex) - 50Y	2.84	186.03	188.88	186.44	188.88	0.000003	0.10	49.52	38.44	0.02
CVT	1003	(Ex) - 100Y	4.31	186.03	189.26	186.54	189.26	0.000003	0.11	63.93	38.44	0.02
CVT	1003	(Ex) - Regional	8.09	186.03	189.98	186.72	189.98	0.000004	0.15	91.70	38.44	0.02
CVT	1003	Check	5.61	186.03	189.57	186.60	189.58	0.000003	0.12	76.23	38.44	0.02
CVT	1002	(Ex) - 50Y	2.84	186.22	188.88		188.88	0.000005	0.13	39.48	32.16	0.03
CVT	1002	(Ex) - 100Y	4.31	186.22	189.25		189.26	0.000006	0.15	52.10	34.95	0.03
CVT	1002	(Ex) - Regional	8.09	186.22	189.98		189.98	0.000007	0.19	78.96	39.63	0.03
CVT	1002	Check	5.61	186.22	189.57		189.58	0.000006	0.16	63.59	36.87	0.03
CVT	1000	(Ex) - 50Y	2.84	186.06	188.88	186.62	188.88	0.000007	0.15	30.94	25.11	0.03
CVT	1000	(Ex) - 100Y	4.31	186.06	189.25	186.73	189.26	0.000008	0.18	41.11	27.71	0.03
CVT	1000	(Ex) - Regional	8.09	186.06	189.98	186.96	189.98	0.000009	0.22	61.12	27.71	0.04
CVT	1000	Check	5.61	186.06	189.57	186.82	189.58	0.000008	0.19	49.97	27.71	0.03
CVT	999.41		Culvert									
CVT	999	(Ex) - 50Y	2.84	186.05	188.87		188.87	0.000000	0.04	105.68	47.09	0.01
CVT	999	(Ex) - 100Y	4.31	186.05	189.23		189.23	0.000001	0.05	122.52	47.09	0.01
CVT	999	(Ex) - Regional	8.09	186.05	189.87		189.87	0.000001	0.08	152.99	47.09	0.01
CVT	999	Check	5.61	186.05	189.52		189.52	0.000001	0.06	136.62	47.09	0.01

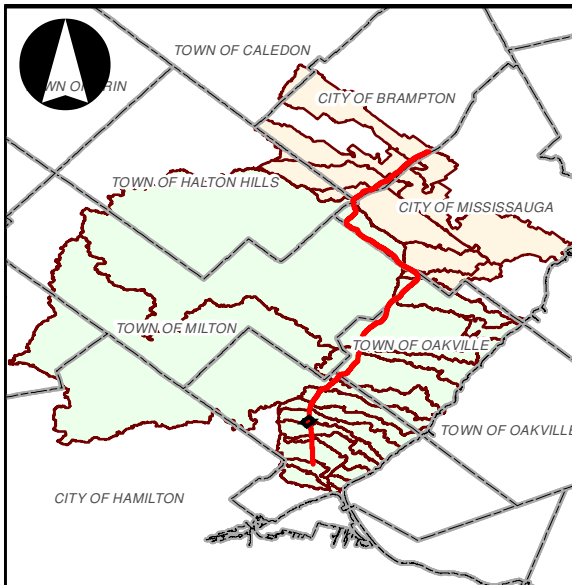
HEC-RAS Plan: Ref River: S-E02 Reach: CVT

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
CVT	1002	(Ex) - 50Y	4.83	186.46	188.90	187.04	188.90	0.000014	0.19	36.18	25.90	0.04
CVT	1002	(Ex) - 100Y	8.43	186.46	189.33	187.21	189.34	0.000020	0.26	47.32	25.90	0.05
CVT	1002	(Ex) - Regional	13.25	186.46	190.15	187.38	190.15	0.000017	0.29	68.47	25.90	0.05
CVT	1002	Check	10.96	186.46	189.71	187.31	189.71	0.000019	0.28	57.11	25.90	0.05
CVT	1001	(Ex) - 50Y	4.83	186.38	188.90	186.87	188.90	0.000010	0.18	45.84	44.93	0.04
CVT	1001	(Ex) - 100Y	8.43	186.38	189.33	187.03	189.33	0.000013	0.22	65.17	44.93	0.04
CVT	1001	(Ex) - Regional	13.25	186.38	190.15	187.20	190.15	0.000009	0.21	101.88	44.93	0.04
CVT	1001	Check	10.96	186.38	189.71	187.12	189.71	0.000011	0.22	82.18	44.93	0.04
CVT	1000.48	Culvert										
CVT	1000	(Ex) - 50Y	4.83	186.59	188.86		188.86	0.000025	0.25	32.07	29.92	0.06
CVT	1000	(Ex) - 100Y	8.43	186.59	189.22		189.22	0.000035	0.33	42.79	29.92	0.07
CVT	1000	(Ex) - Regional	13.25	186.59	189.87		189.87	0.000029	0.35	62.24	29.92	0.06
CVT	1000	Check	10.96	186.59	189.52		189.52	0.000034	0.35	51.77	29.92	0.07

HEC-RAS Plan: Prop River: NP02 Reach: TWY4

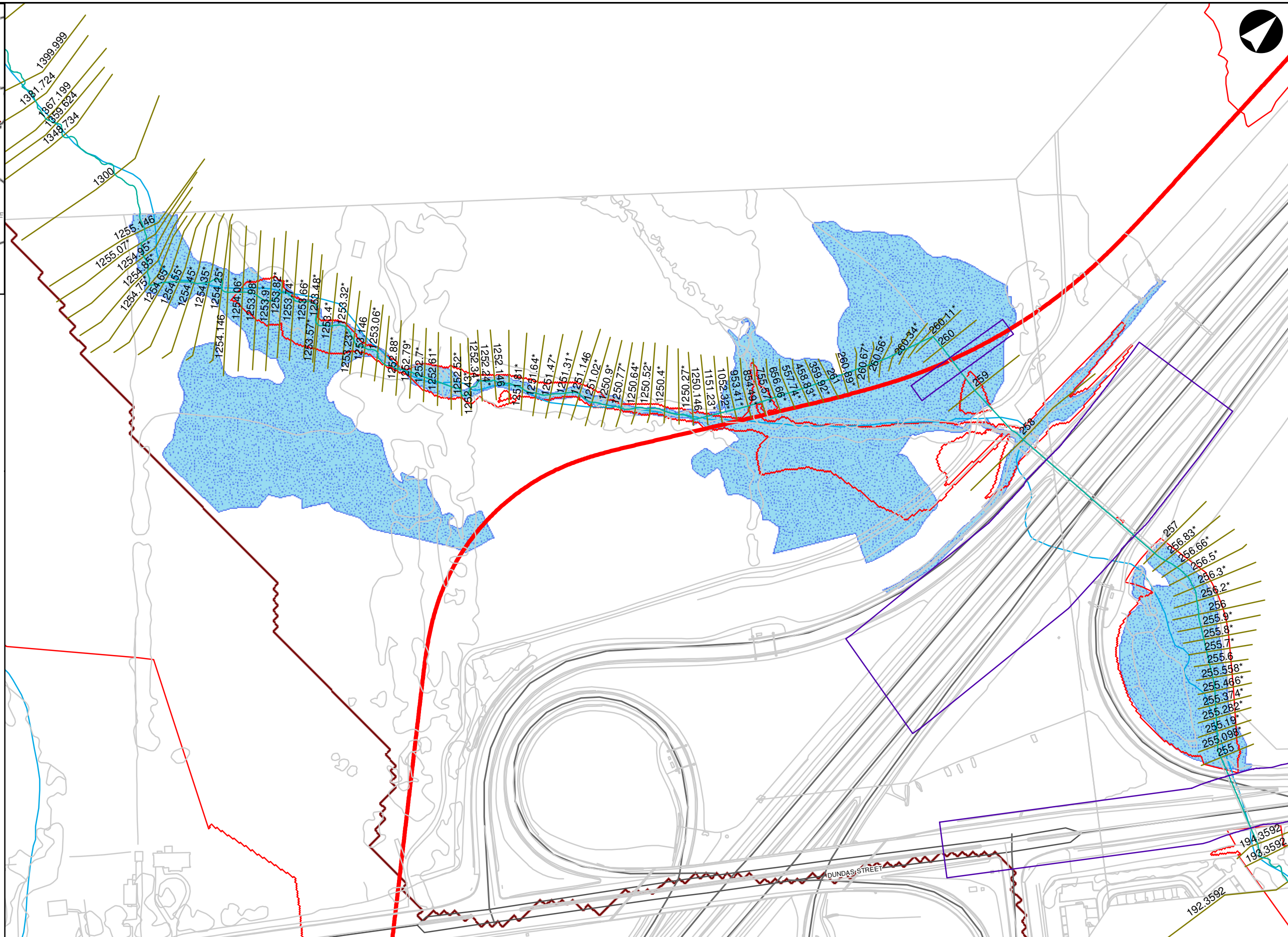
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
TWY4	1002	Check	21.36	172.08	174.68	172.69	174.69	0.000033	0.32	85.07	43.70	0.07
TWY4	1002	Reg	23.18	172.08	174.81	172.70	174.81	0.000032	0.32	90.53	43.70	0.07
TWY4	1002	100yr	16.43	172.08	174.33	172.61	174.33	0.000036	0.29	69.76	43.70	0.07
TWY4	1002	50yr	14.94	172.08	174.22	172.59	174.22	0.000036	0.28	64.96	43.04	0.07
TWY4	1001.51		Culvert									
TWY4	1001	Check	21.36	170.49	172.04		172.05	0.000127	0.43	64.90	53.80	0.12
TWY4	1001	Reg	23.18	170.49	172.18		172.19	0.000104	0.41	72.56	53.80	0.11
TWY4	1001	100yr	16.43	170.49	171.63		171.64	0.000283	0.50	42.97	53.80	0.17
TWY4	1001	50yr	14.94	170.49	171.50		171.51	0.000413	0.54	35.92	53.80	0.19
TWY4	1000	Check	21.36	169.98	172.04	170.43	172.04	0.000044	0.33	81.81	45.12	0.07
TWY4	1000	Reg	23.18	169.98	172.18	170.45	172.19	0.000041	0.33	88.23	45.12	0.07
TWY4	1000	100yr	16.43	169.98	171.63	170.37	171.63	0.000058	0.32	63.39	45.12	0.08
TWY4	1000	50yr	14.94	169.98	171.50	170.34	171.50	0.000065	0.32	57.47	45.12	0.09
TWY4	999.61		Culvert									
TWY4	999	Check	21.36	169.03	169.53	169.53	169.68	0.014135	1.96	13.51	44.78	1.01
TWY4	999	Reg	23.18	169.03	169.54	169.54	169.71	0.013941	2.01	14.36	45.55	1.01
TWY4	999	100yr	16.43	169.03	169.47	169.47	169.61	0.015433	1.83	10.96	41.27	1.03
TWY4	999	50yr	14.94	169.03	169.45	169.45	169.58	0.014915	1.75	10.40	40.85	1.00

Appendix F Floodplain Mapping - Existing and Proposed



LEGEND

- Preferred Alignment
- Watercourses
- Existing Floodplain - Conservation Halton
- Proposed Floodplain



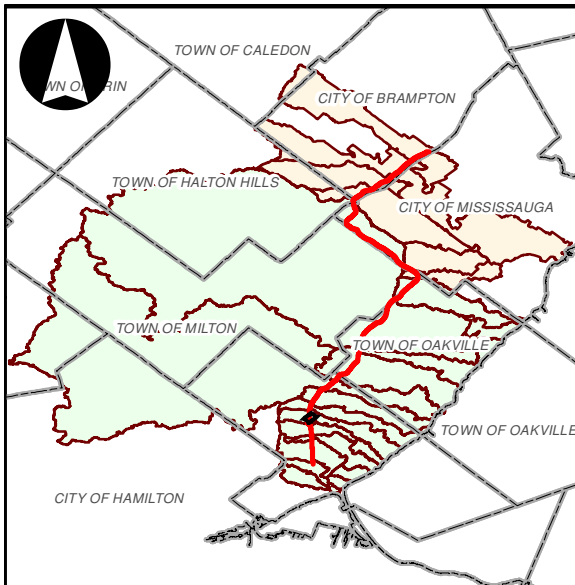
DATE OCTOBER 2019	PROJECT NO. 476294
SCALE 0 10 20 40 60 80 100 Meters	1:2 500



407 TRANSITWAY: BU05 FLOODPLAIN - PROPOSED

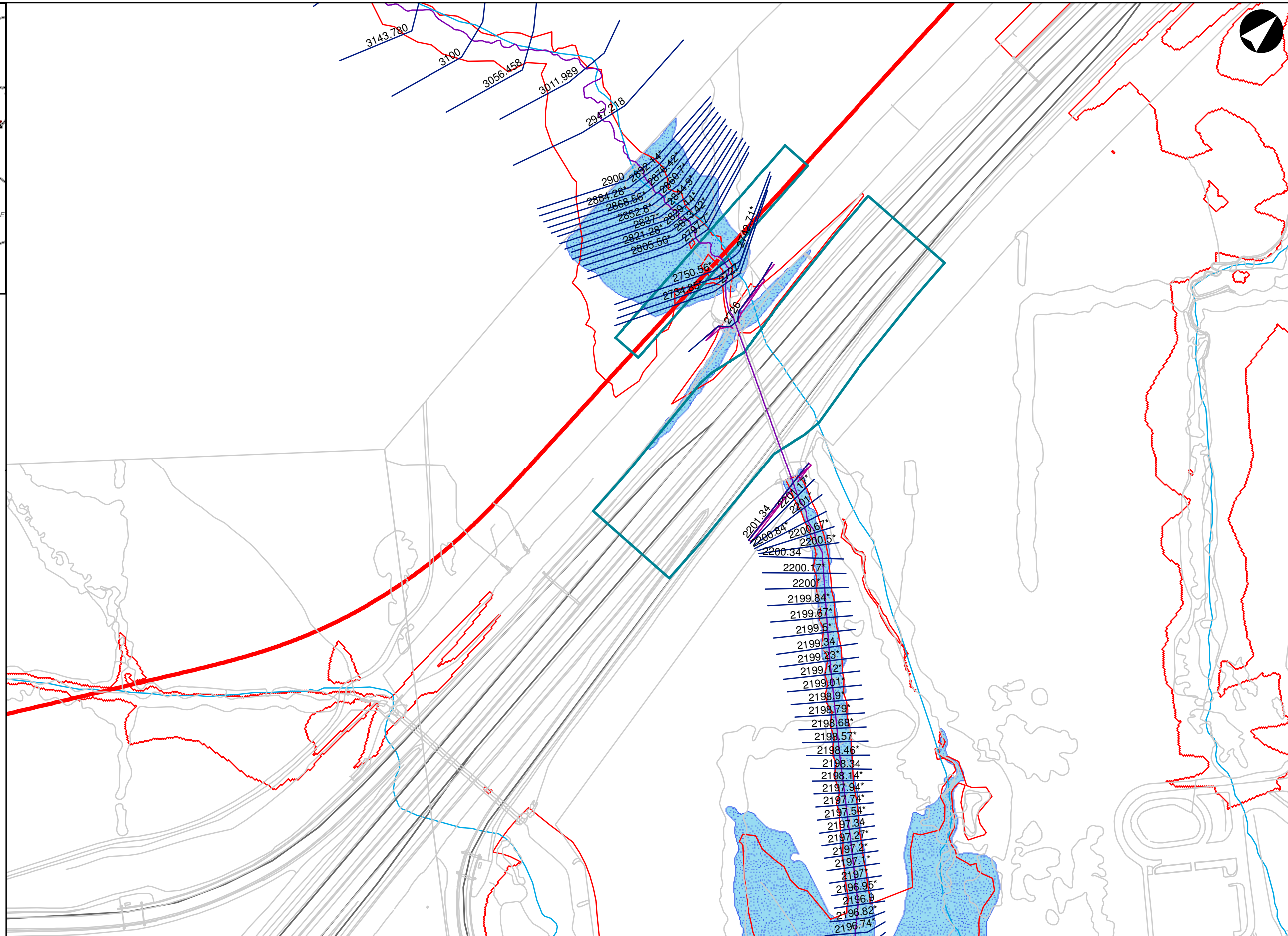
407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

FIGURE NO.
F.1



LEGEND

- Preferred Alignment
- Watercourses
- Existing Floodplain - Conservation Halton
- Proposed Floodplain



DATE
OCTOBER 2019

PROJECT NO.
476294

SCALE
0 10 20 40 60 80 100
Meters

1:2 500



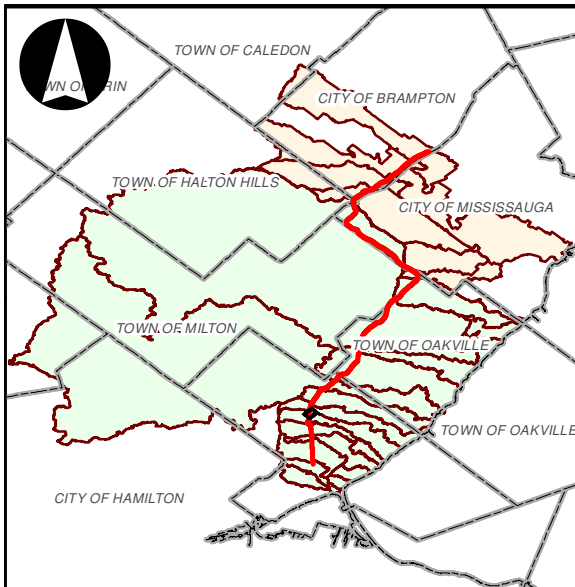
PARSONS

407 TRANSITWAY: BU06 FLOODPLAIN - PROPOSED

407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

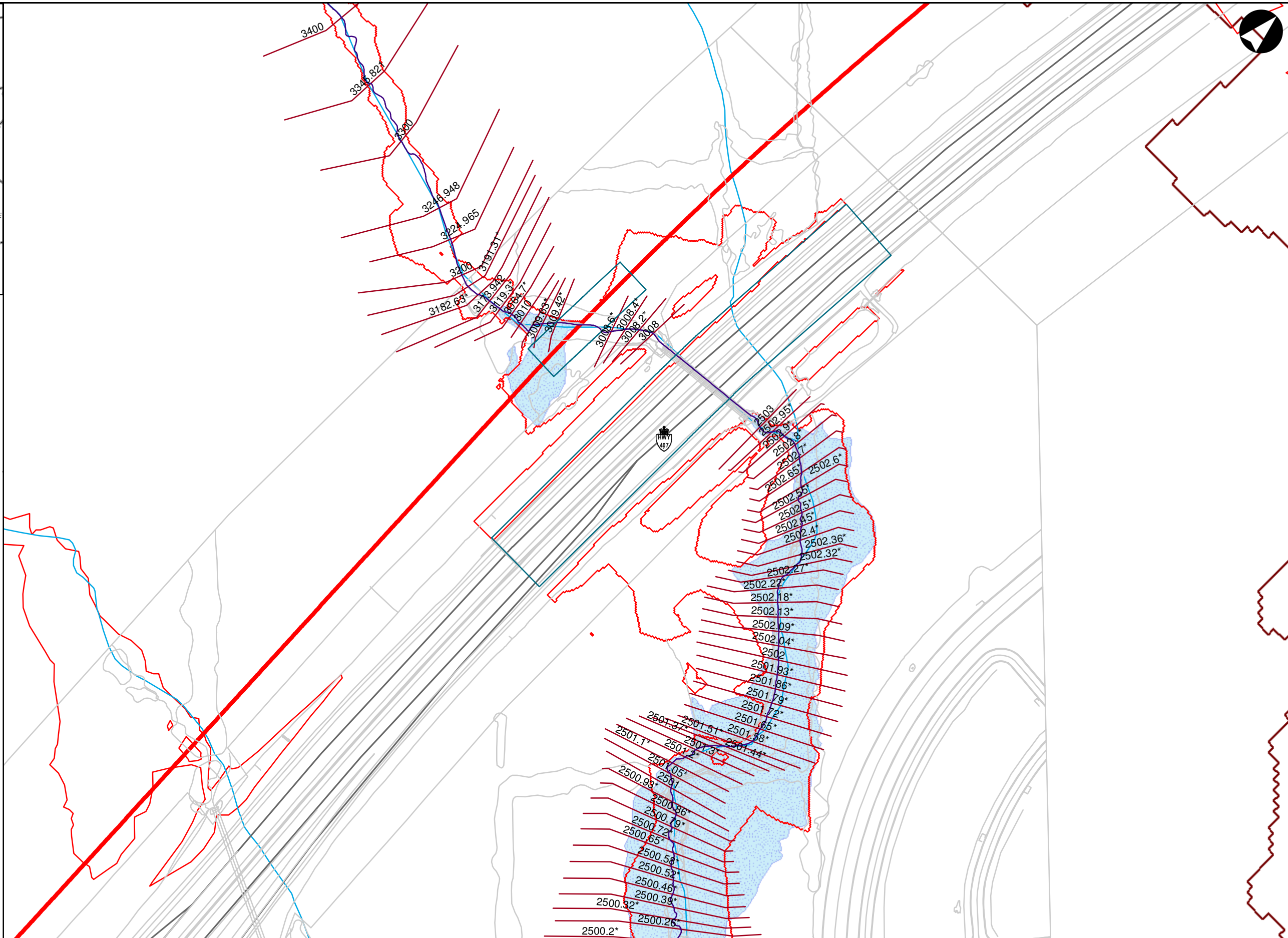
FIGURE NO.

F.2



LEGEND

- Preferred Alignment
- Watercourses
- Existing Floodplain - Conservation Halton
- Proposed Floodplain



DATE OCTOBER 2019	PROJECT NO. 476294
SCALE 0 10 20 40 60 80 100 Meters	1:2 500

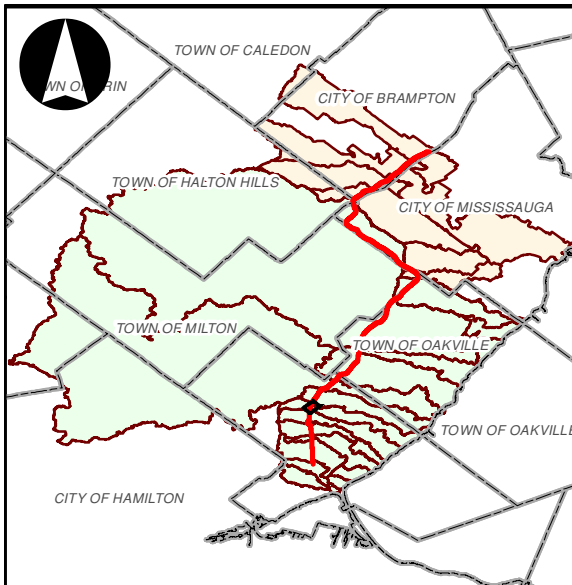


407 TRANSITWAY: BU07 FLOODPLAIN - PROPOSED

407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

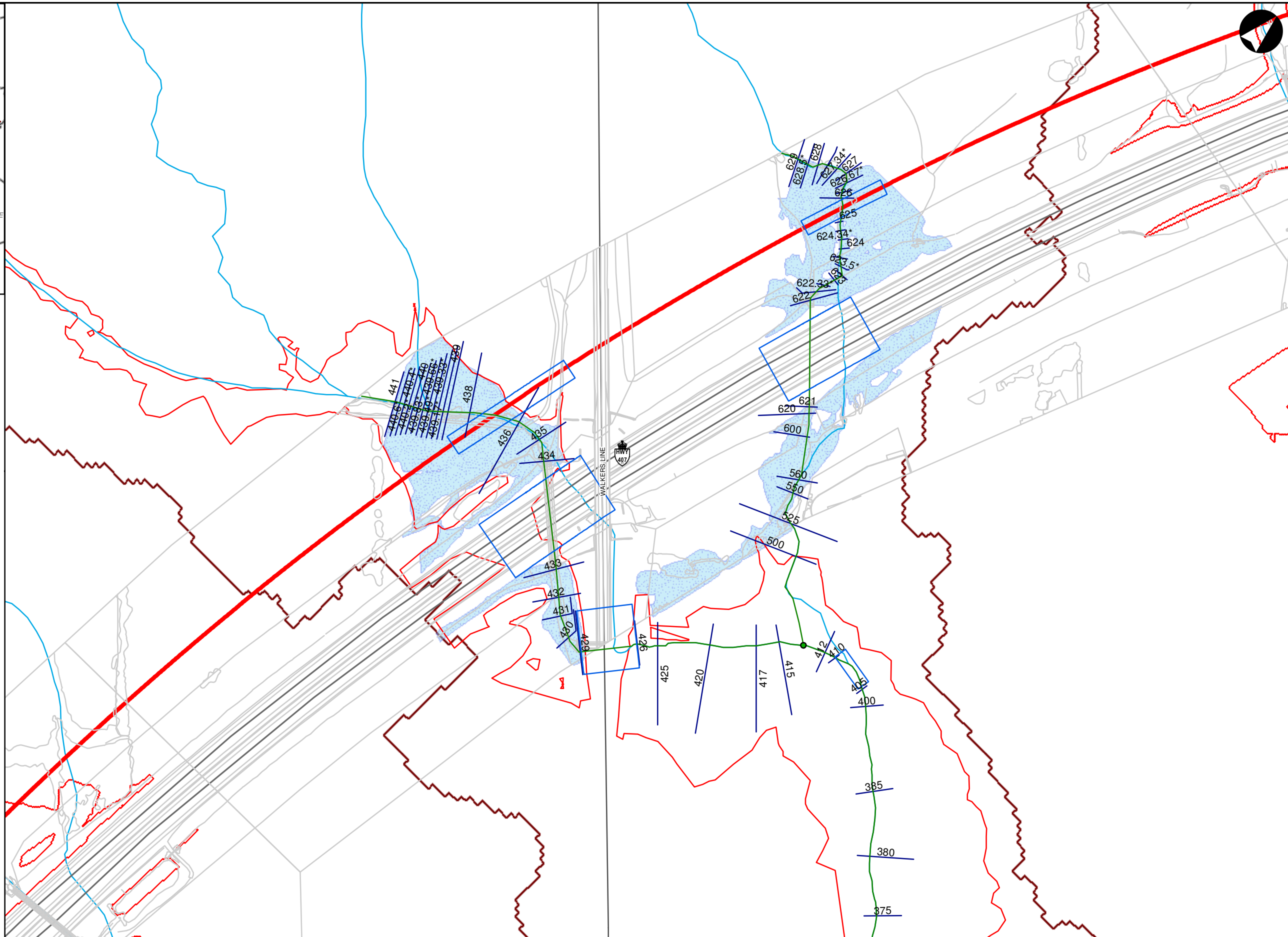
FIGURE NO.

F.3



LEGEND

- Preferred
- Watercourses
- Existing Floodplain - Conservation Halton
- Proposed Floodplain
- Sub-Watersheds



DATE OCTOBER 2019	PROJECT NO. 476294	
SCALE 0 15 30 60 90 120 150 Meters		1:2 500



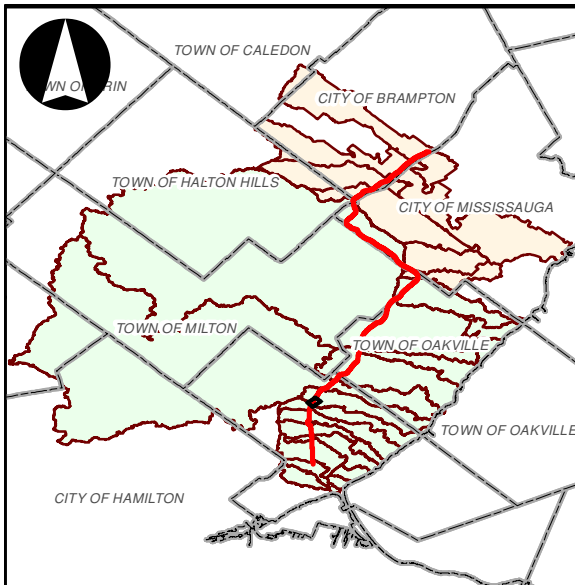
PARSONS

407 TRANSITWAY: BU08 & BU09 FLOODPLAIN - PROPOSED

407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

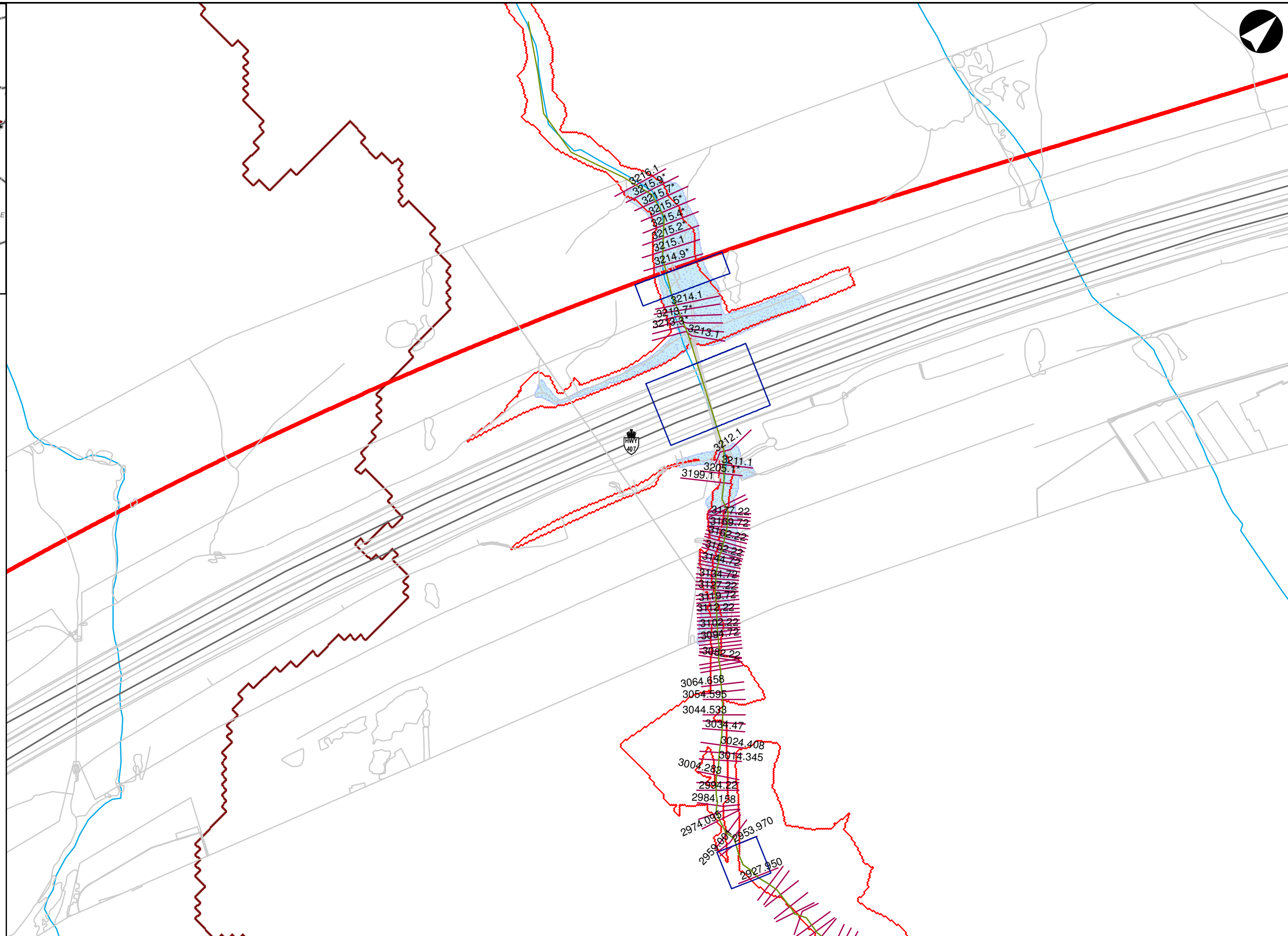
FIGURE NO.

F.4



LEGEND

- Preferred Alignment
- Watercourses
- Existing Floodplain - Conservation Halton
- Proposed Floodplain
- Sub-Watersheds



DATE OCTOBER 2019	PROJECT NO. 476294	
SCALE 0 10 20 40 60 80 100 Meters		1:2 500



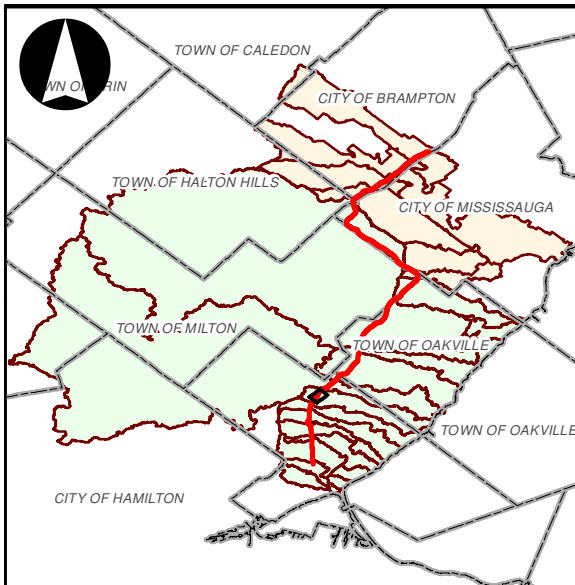
PARSONS

407 TRANSITWAY: BU10 FLOODPLAIN - PROPOSED

407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

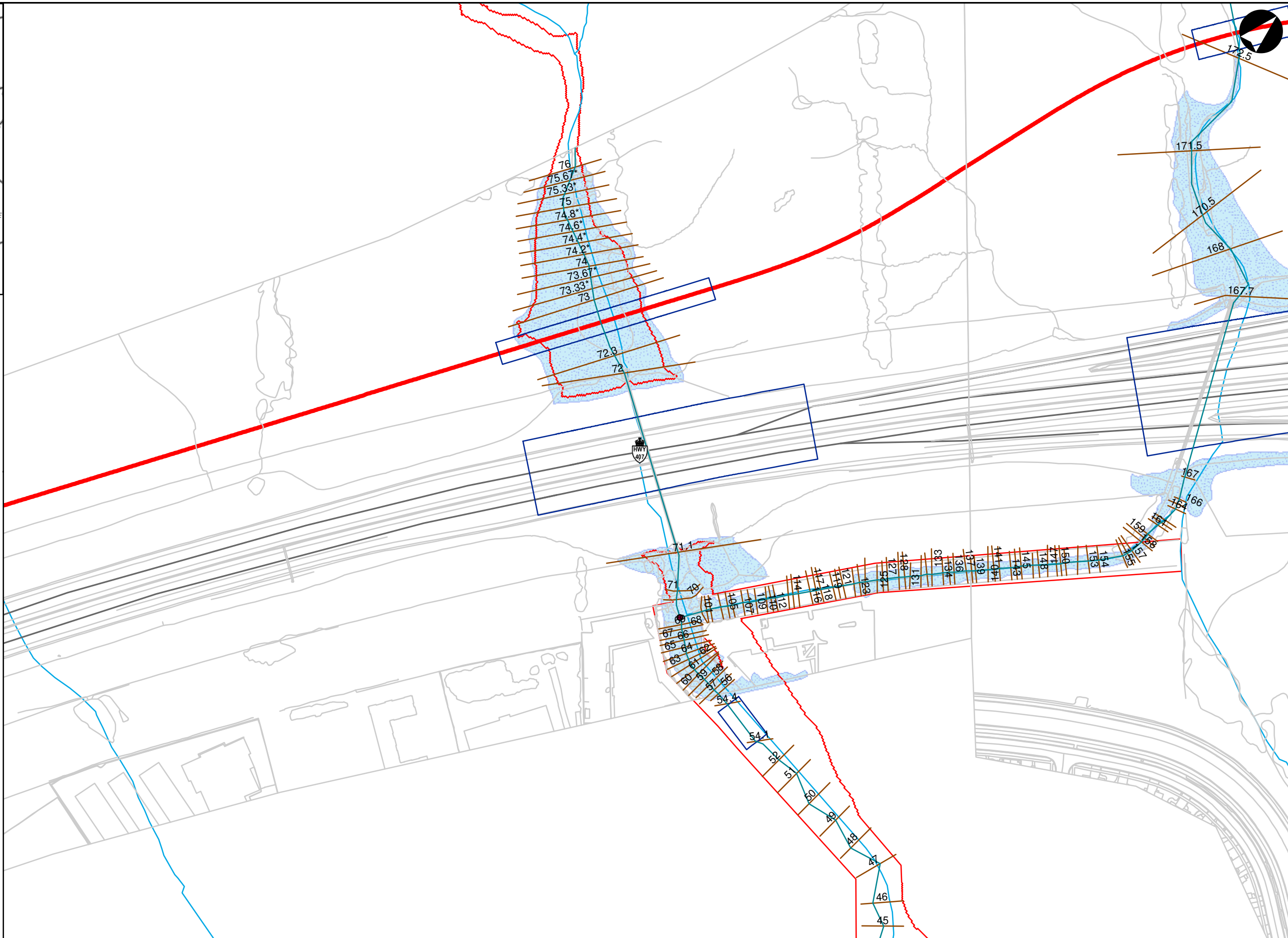
FIGURE NO.

F.5



LEGEND

- Preferred Alignment
- Watercourses
- Existing Floodplain - Conservation Halton
- Proposed Floodplain
- Sub-Watersheds



DATE
OCTOBER 2019

PROJECT NO.
476294

SCALE
0 10 20 40 60 80 100
Meters

1:2 500



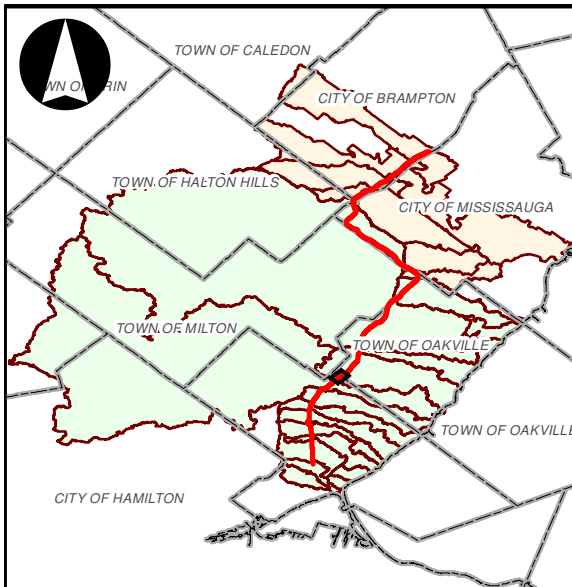
PARSONS

407 TRANSITWAY: BU11 FLOODPLAIN - PROPOSED

407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

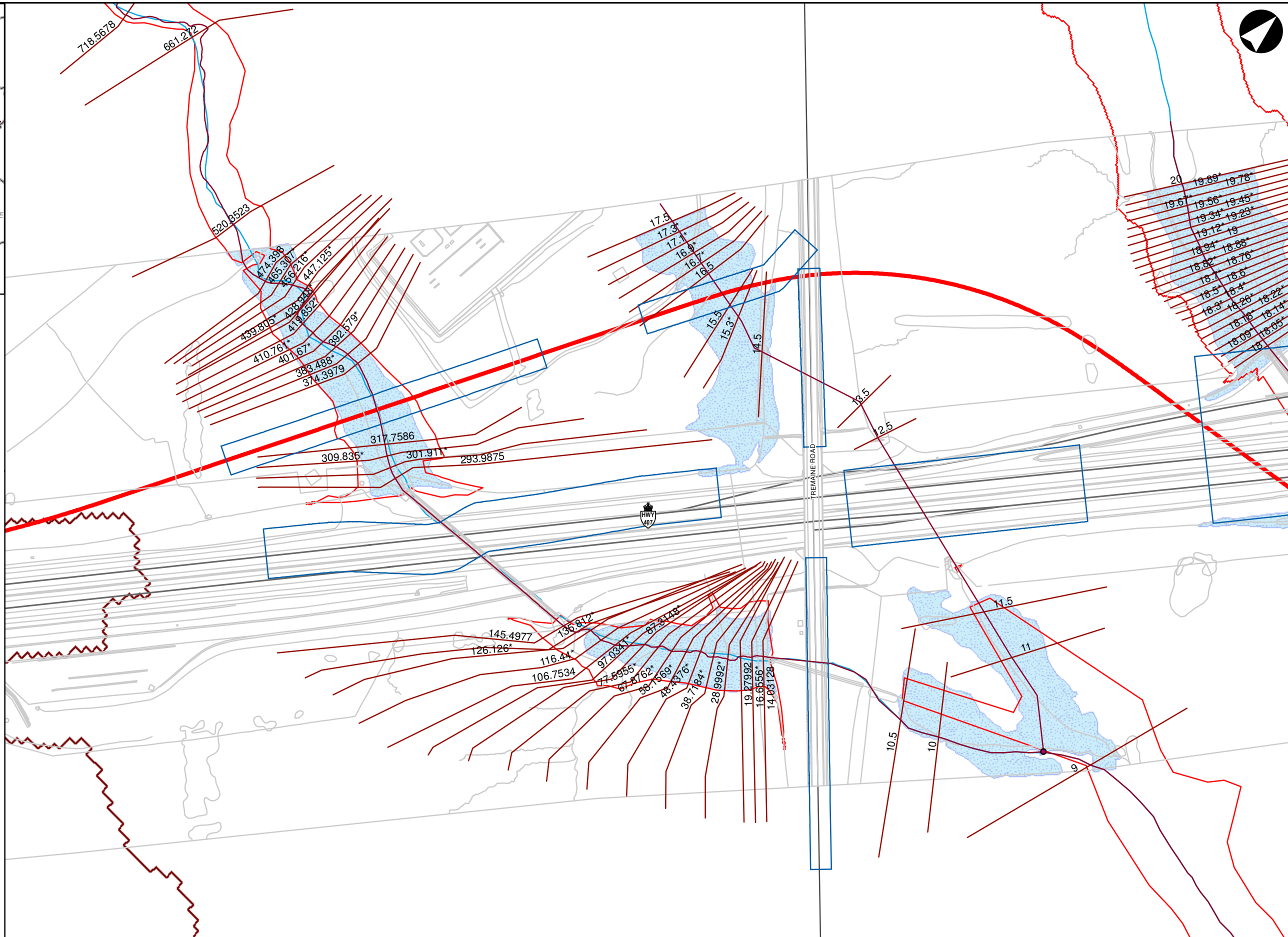
FIGURE NO.

F.6



LEGEND

- Preferred Alignment
- Watercourses
- Existing Floodplain - Conservation Halton
- Proposed Floodplain
- Sub-Watersheds



DATE OCTOBER 2019	PROJECT NO. 476294	
SCALE 0 10 20 40 60 80 100 Meters		1:2 500



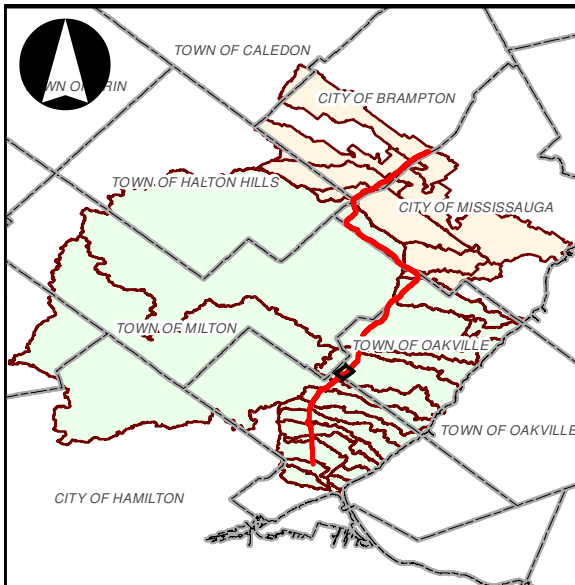
PARSONS

407 TRANSITWAY: OW01 FLOODPLAIN - PROPOSED

407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

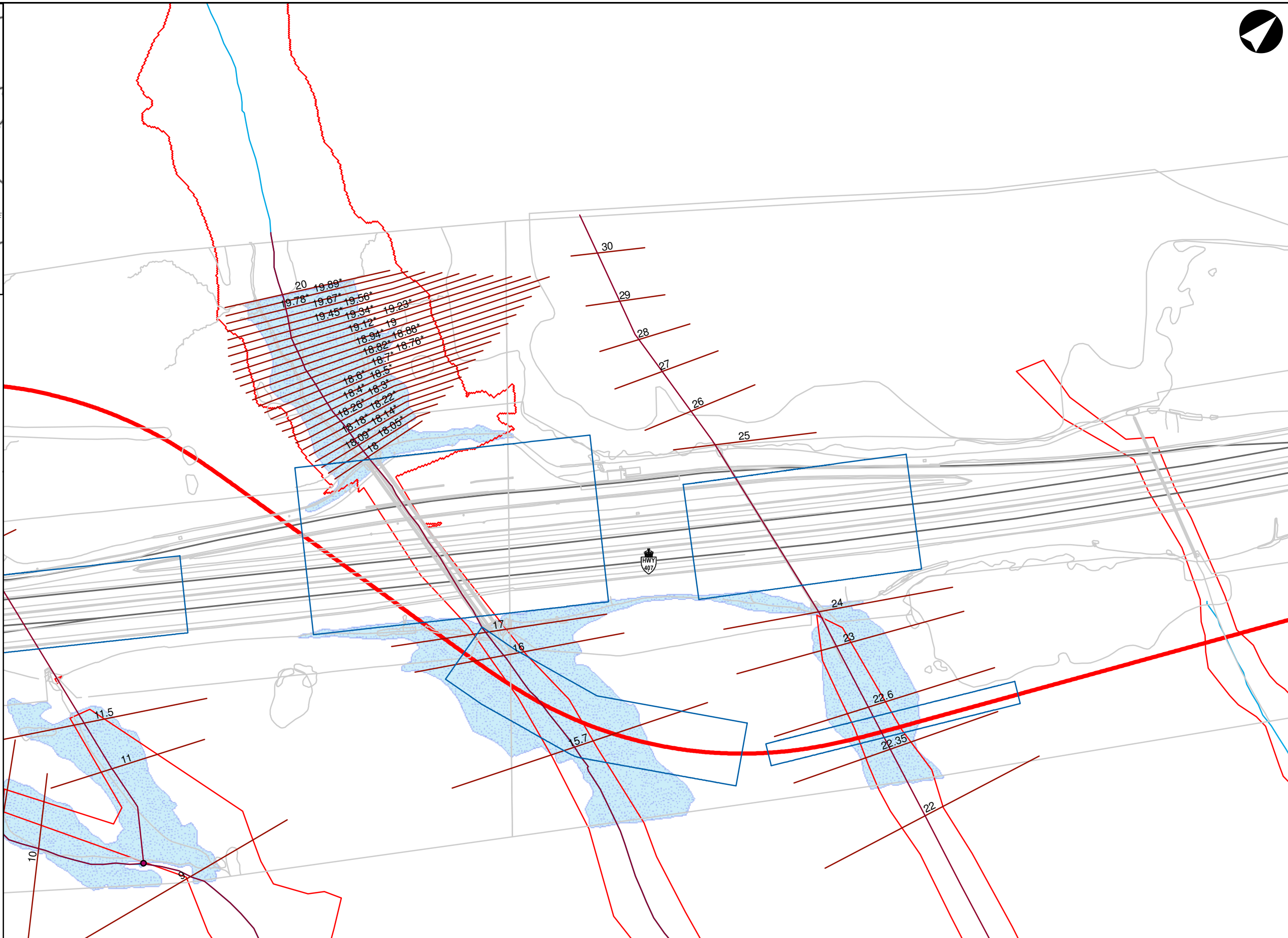
FIGURE NO.

F.7



LEGEND

- Preferred Alignment
- Watercourses
- Existing Floodplain - Conservation Halton
- Proposed Floodplain
- Sub-Watersheds

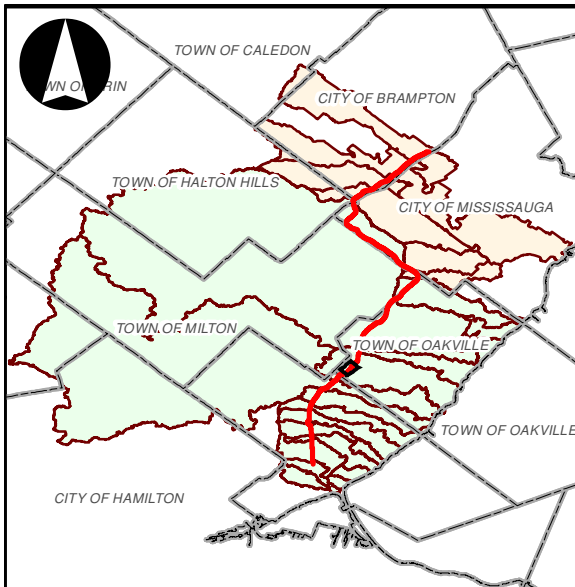


DATE OCTOBER 2019	PROJECT NO. 476294	SCALE 0 10 20 40 60 80 100 Meters
		1:2 500



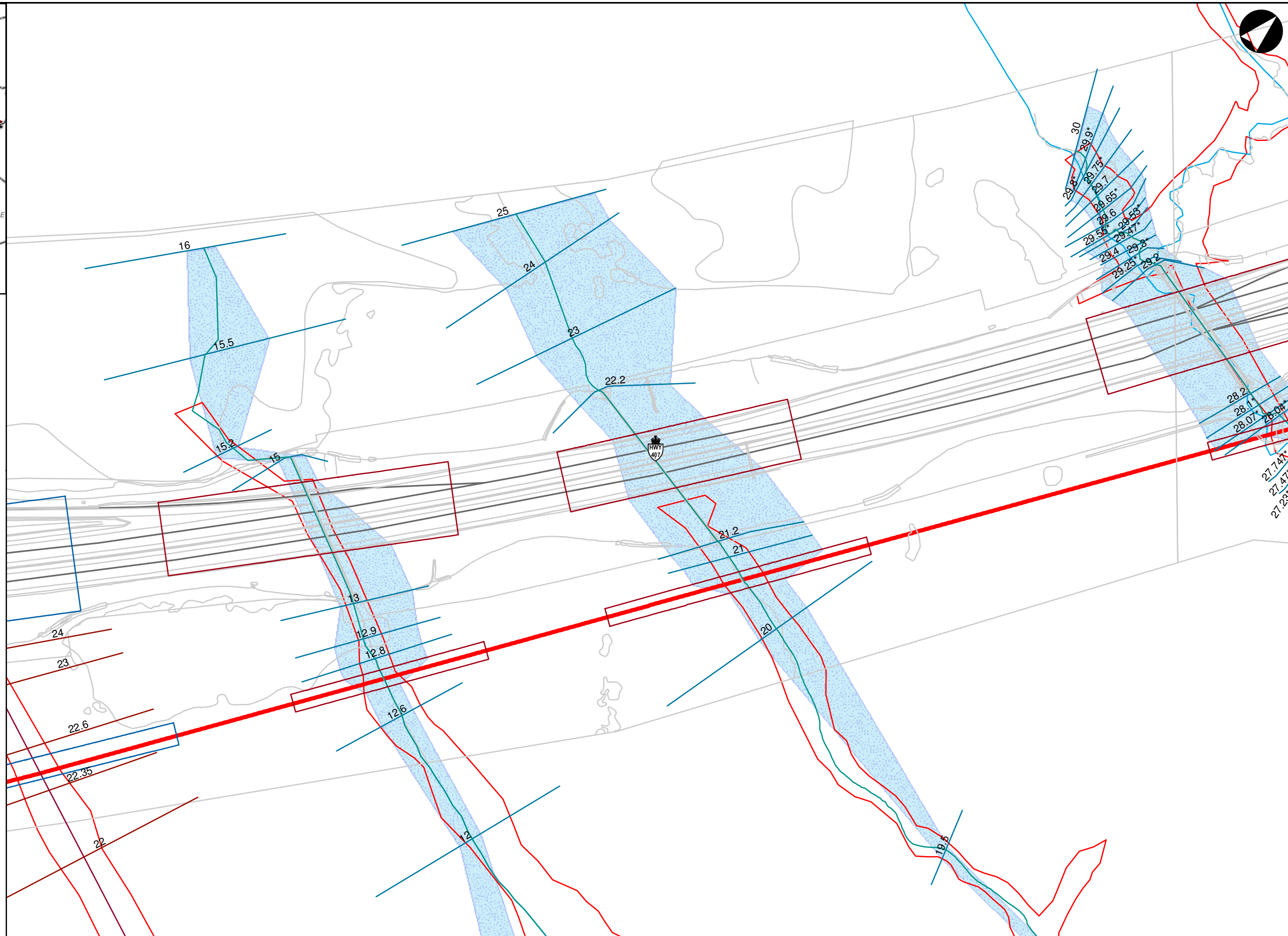
407 TRANSITWAY: OW04 FLOODPLAIN - PROPOSED
407 TRANSITWAY FROM BRANT TO HURONTARIO STREET

FIGURE NO.
F.8



LEGEND

- Preferred Alignment
- Watercourses
- Existing Floodplain - Conservation Halton
- Proposed Floodplain
- Sub-Watersheds



DATE OCTOBER 2019	PROJECT NO. 476294	SCALE 0 10 20 40 60 80 100 Meters
1:2 500		



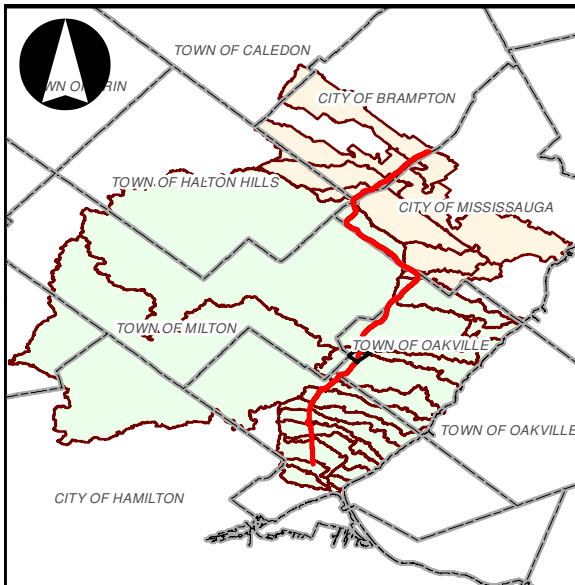
PARSONS

407 TRANSITWAY: OW05 & OW06 FLOODPLAIN - PROPOSED

407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

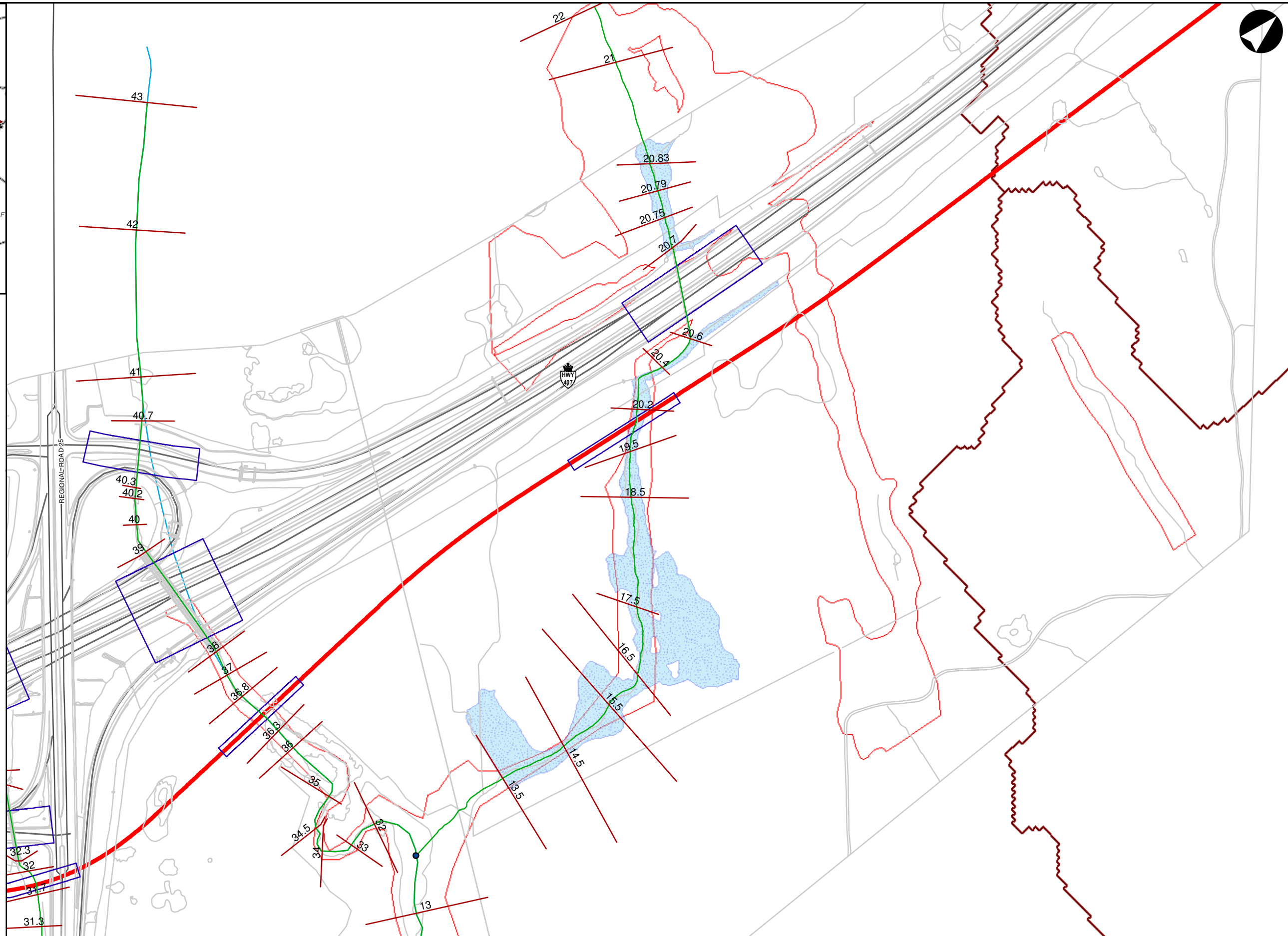
FIGURE NO.

F.9



LEGEND

- Preferred Alignment
- Watercourses
- Existing Floodplain - Conservation Halton
- Sub-Watersheds



DATE OCTOBER 2019	PROJECT NO. 476294	
SCALE 0 15 30 60 90 120 150 Meters		1:2 500



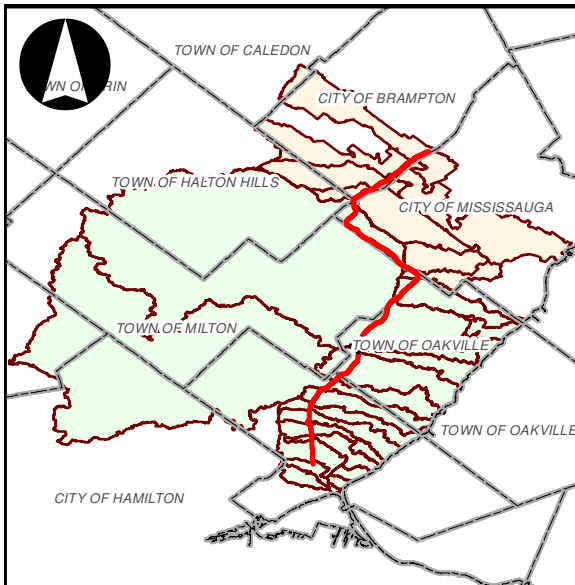
PARSONS

407 TRANSITWAY: OW11 FLOODPLAIN - PROPOSED

407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

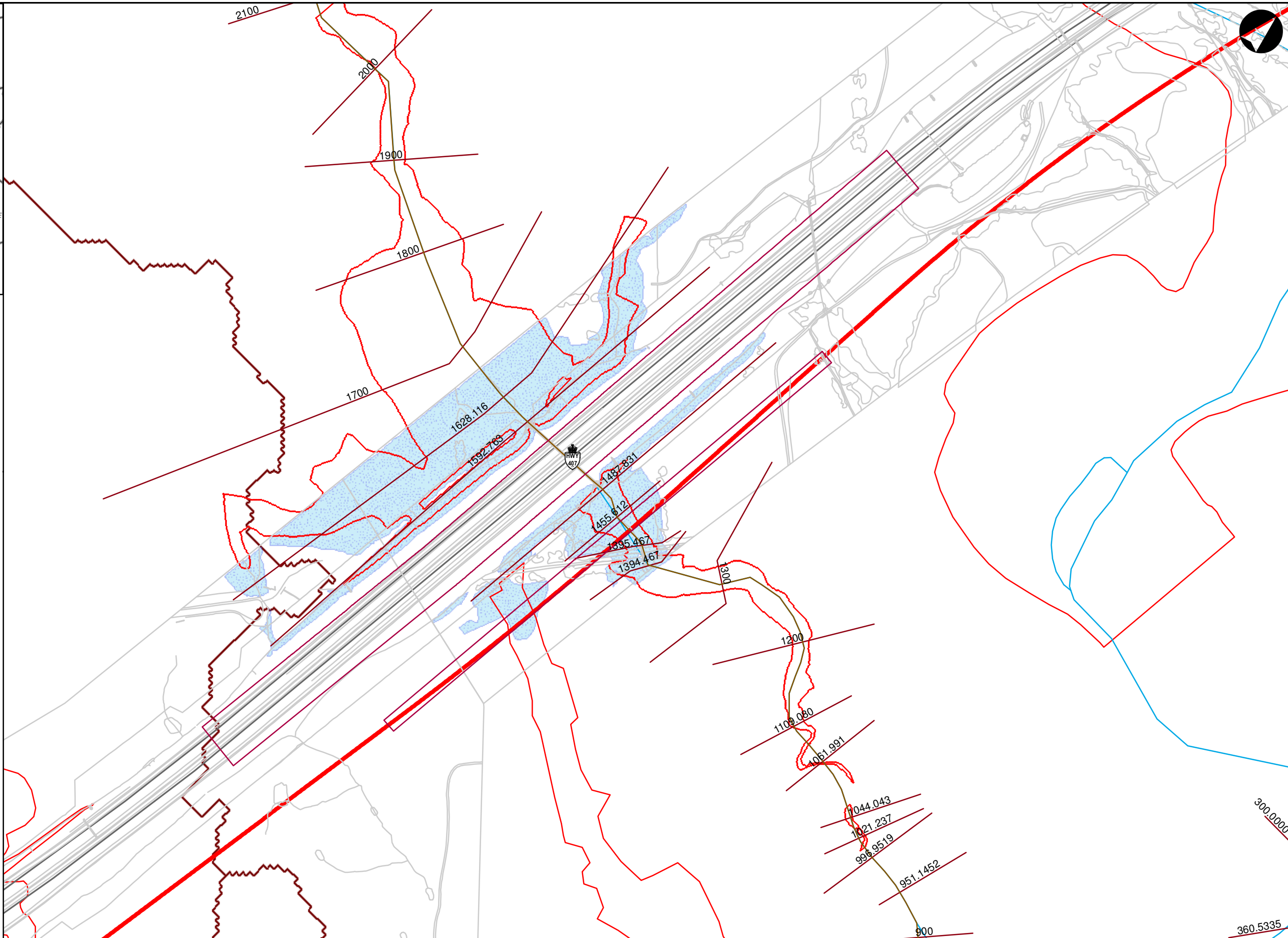
FIGURE NO.

F.11



LEGEND

- Preferred Alignment
- Watercourses
- Existing Floodplain - Conservation Halton
- Proposed Floodplain
- Sub-Watersheds



DATE
OCTOBER 2019

PROJECT NO.
476294

SCALE
0 15 30 60 90 120 150
Meters

1:2 500

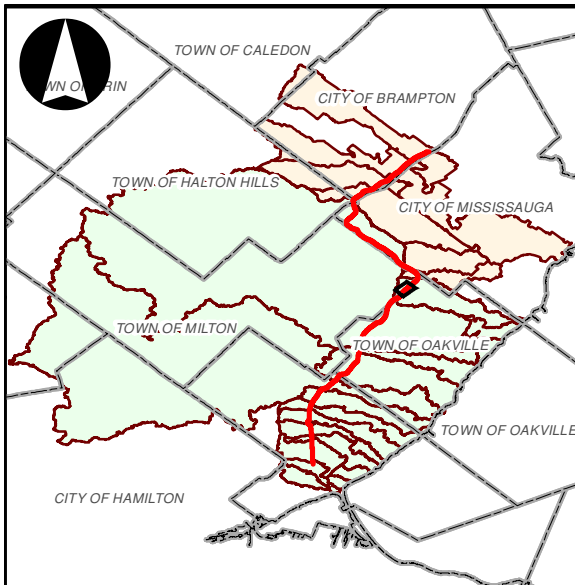


407 TRANSITWAY: S01 FLOODPLAIN - PROPOSED

407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

FIGURE NO.

F.12



LEGEND

- Preferred Alignment
- Watercourses
- Existing Floodplain - Conservation Halton
- Proposed Floodplain
- Sub-Watersheds



DATE OCTOBER 2019	PROJECT NO. 476294	
SCALE 0 15 30 60 90 120 150 Meters	1:2 500	



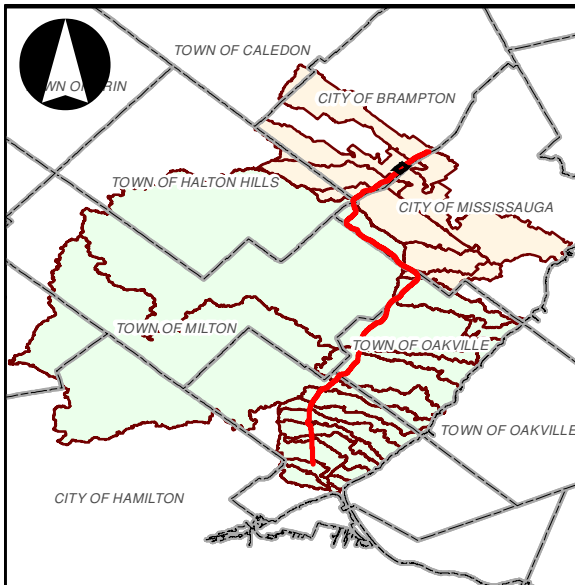
PARSONS

407 TRANSITWAY: OE02 to OE05 FLOODPLAIN - PROPOSED

407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

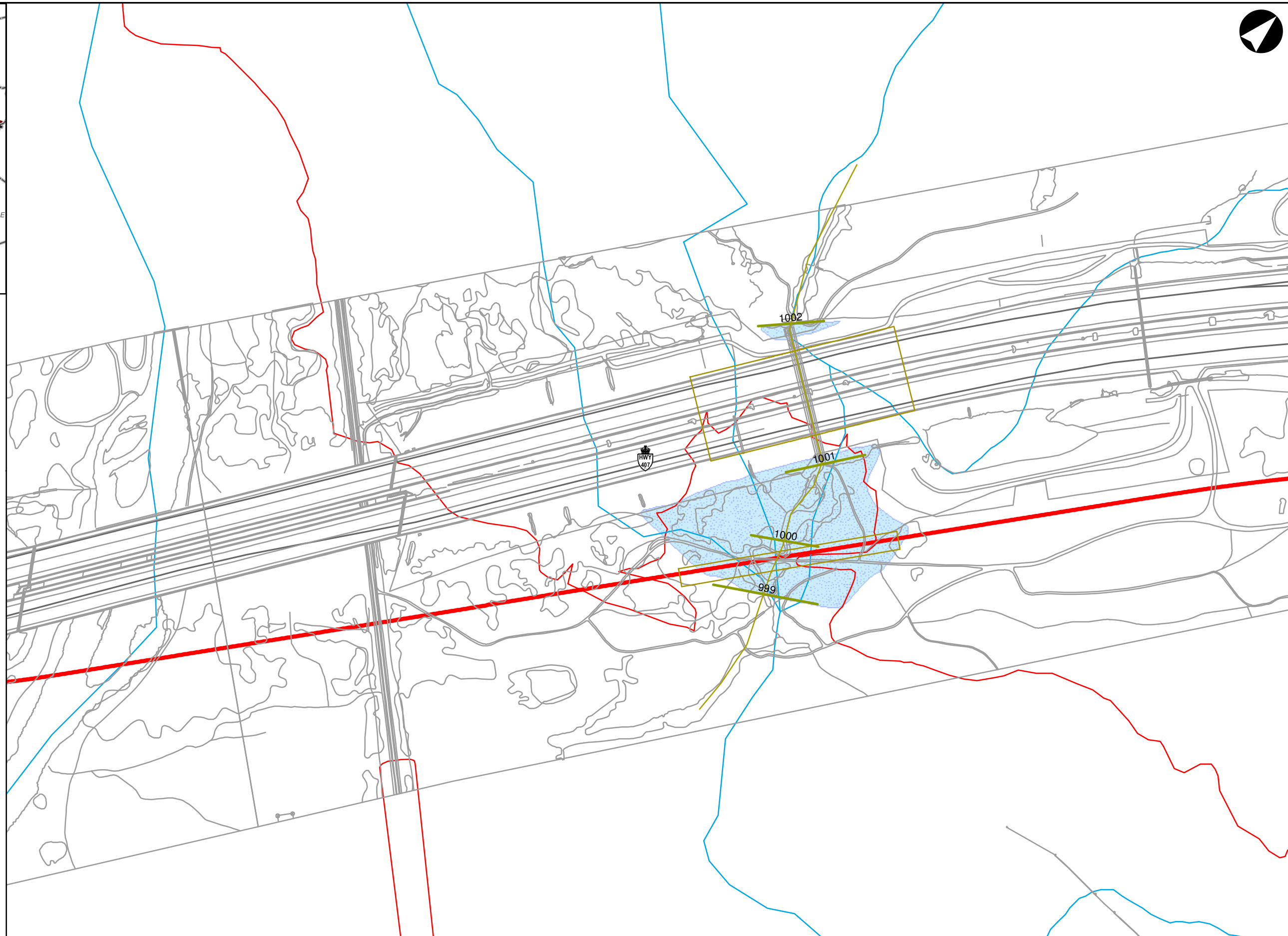
FIGURE NO.

F.13



LEGEND

- Preferred Alignment
- Watercourses
- Existing Floodplain - Credit Valley Conservation
- Proposed Floodplain
- Sub-Watersheds



DATE OCTOBER 2019	PROJECT NO. 476294	
SCALE 0 10 20 40 60 80 100 Meters		1:2 500



PARSONS

407 TRANSITWAY: NP02 FLOODPLAIN - PROPOSED

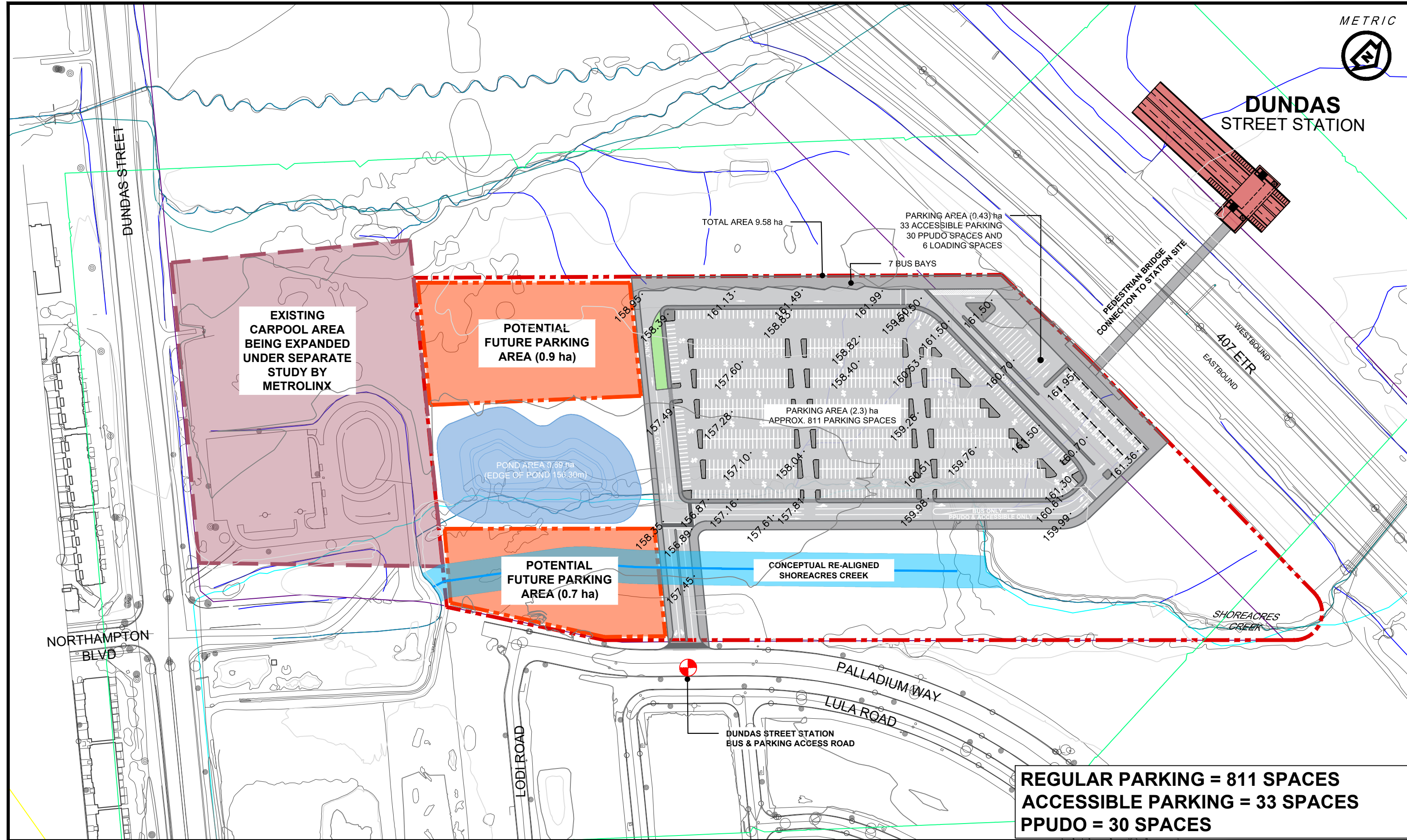
407 TRANSITWAY
FROM BRANT TO HURONTARIO STREET

FIGURE NO.

F.14

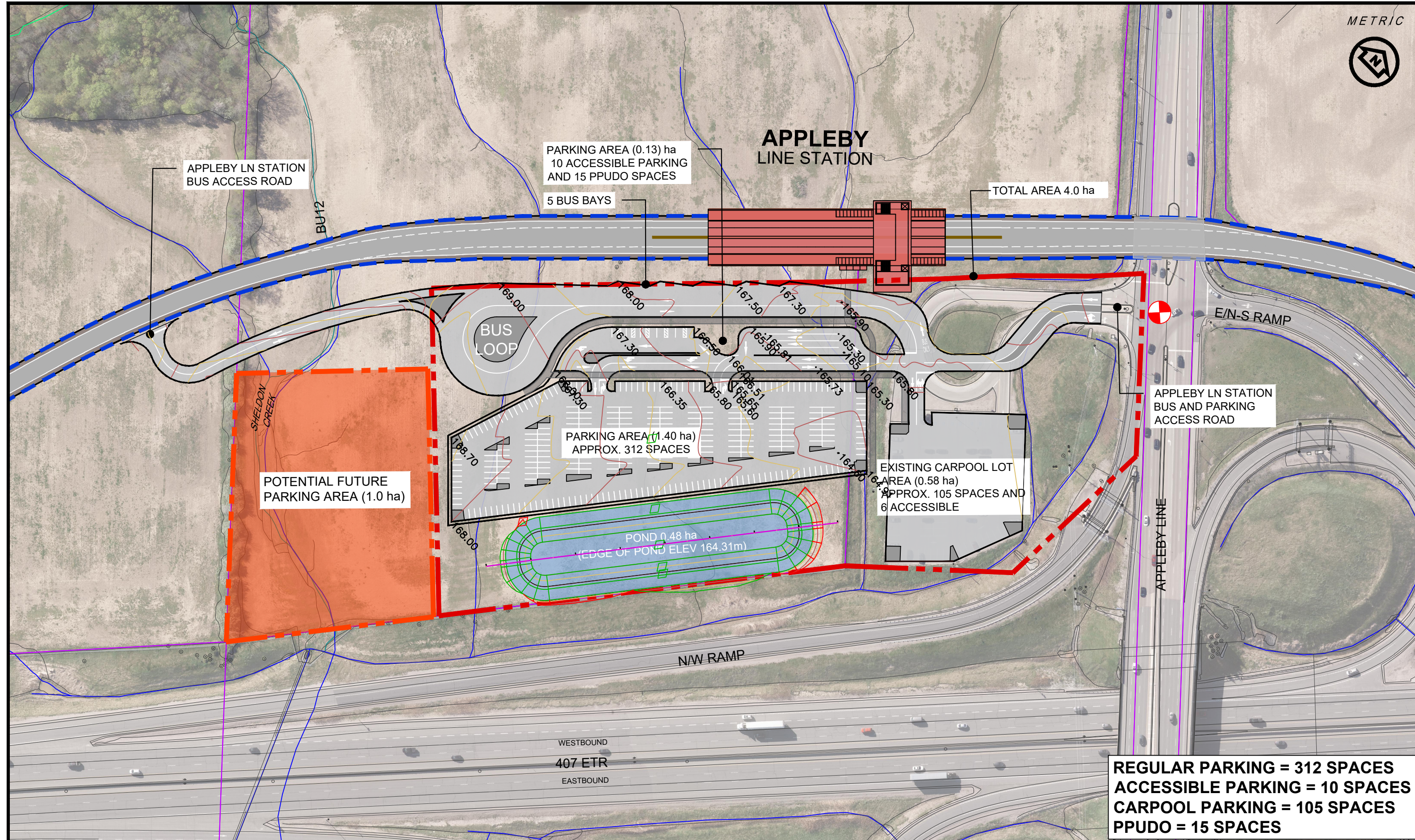
Appendix G Proposed TWY 4 Stations Site Design

DUNDAS STREET STATION



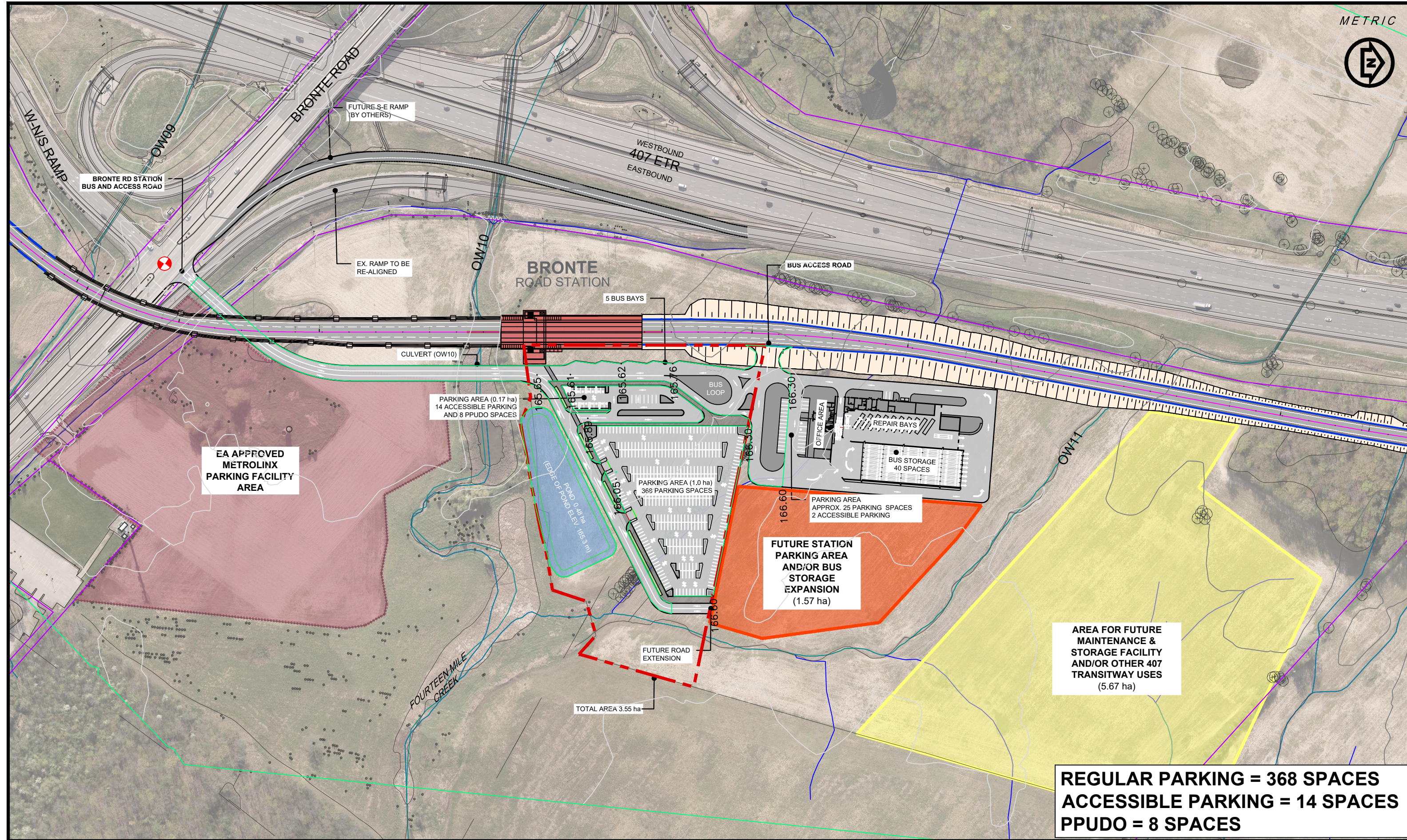
REGULAR PARKING = 811 SPACES
ACCESSIBLE PARKING = 33 SPACES
PPUDO = 30 SPACES

DRAWING NAME: I:\CCANZ\F501\Projects\OR\47294 ON-MTO 407 TRANSITWAY WC TO BRANTTTS General\03 - Drawings\7 - Stations\Station layouts\407 TWA - Dundas St Station - Copy.dwg
 CREATED: Jun 11, 2020 4:24pm
 MODIFIED:

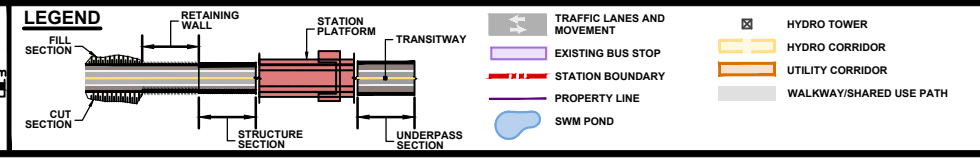


REGULAR PARKING = 312 SPACES
ACCESSIBLE PARKING = 10 SPACES
CARPOOL PARKING = 105 SPACES
PPUDO = 15 SPACES

DRAWING NAME: J:\TOR\75294-ON-MTO-407 TRANSITWAY WCTO BRANTTTS General\03 - Drawings\7 - Stations\Station layouts\407 TWA - Appleby Ln Station.dwg
 CREATED: Dec-10-2019 12:34am
 MODIFIED:



REGULAR PARKING = 368 SPACES
ACCESSIBLE PARKING = 14 SPACES
PPUDO = 8 SPACES



407 TRANSITWAY
WEST OF BRANT STREET TO WEST OF HURONTARIO STREET
G.W.P. 16-20003, CA 2016-E-0038
STATIONS

DRAWING SET
BRONTE RD. STATION

PLATE
S-3A
DATE
15/11/2019

DRAWING NAME: I:\CCANZ\F501\Projects\OR\47294 ON-MTO 407 TRANSITWAY WC TO BRANTYTTU General\03 - Drawings\7 - Stations\Station layouts\407 TWA - Bronte Rd Station.dwg
 CREATED: Jun 11, 2020 6:02pm
 MODIFIED:

WESTBOUND
407 ETR
EASTBOUND

METRIC



TRAFALGAR RD STATION
BUS ACCESS ROAD

PARKING AREA (0.11 ha)
26 ACCESSIBLE PARKING

5 BUS BAYS

TRAFALGAR
ROAD STATION

W/N-S RAMP

TRAFALGAR ROAD

S/E RAMP

BUS LOOP

PPUDO (0.19 ha)
34 SPACES

PARKING AREA (1.18 ha)
APPROX. 329 SPACES

PARKING AREA (0.82 ha)
APPROX. 239 SPACES

PARKING AREA (1.32 ha)
APPROX. 375 SPACES

TRAFALGAR RD STATION
PARKING ACCESS ROAD
(IN/OUT)

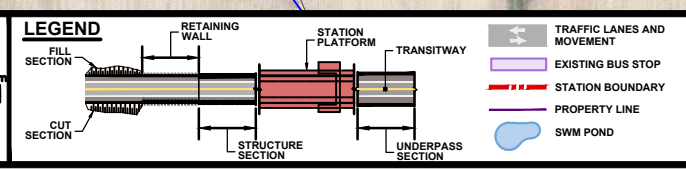
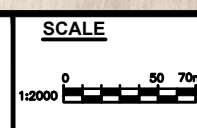
POND 0.94 ha
(EDGE OF POND 191.61m)

TRAFALGAR RD STATION
BUS AND PARKING ACCESS ROAD

TOTAL AREA 8.8 ha

REGULAR PARKING = 743 SPACES
ACCESSIBLE PARKING = 26 SPACES
CARPOOL PARKING = 200 SPACES
PPUDO = 34 SPACES

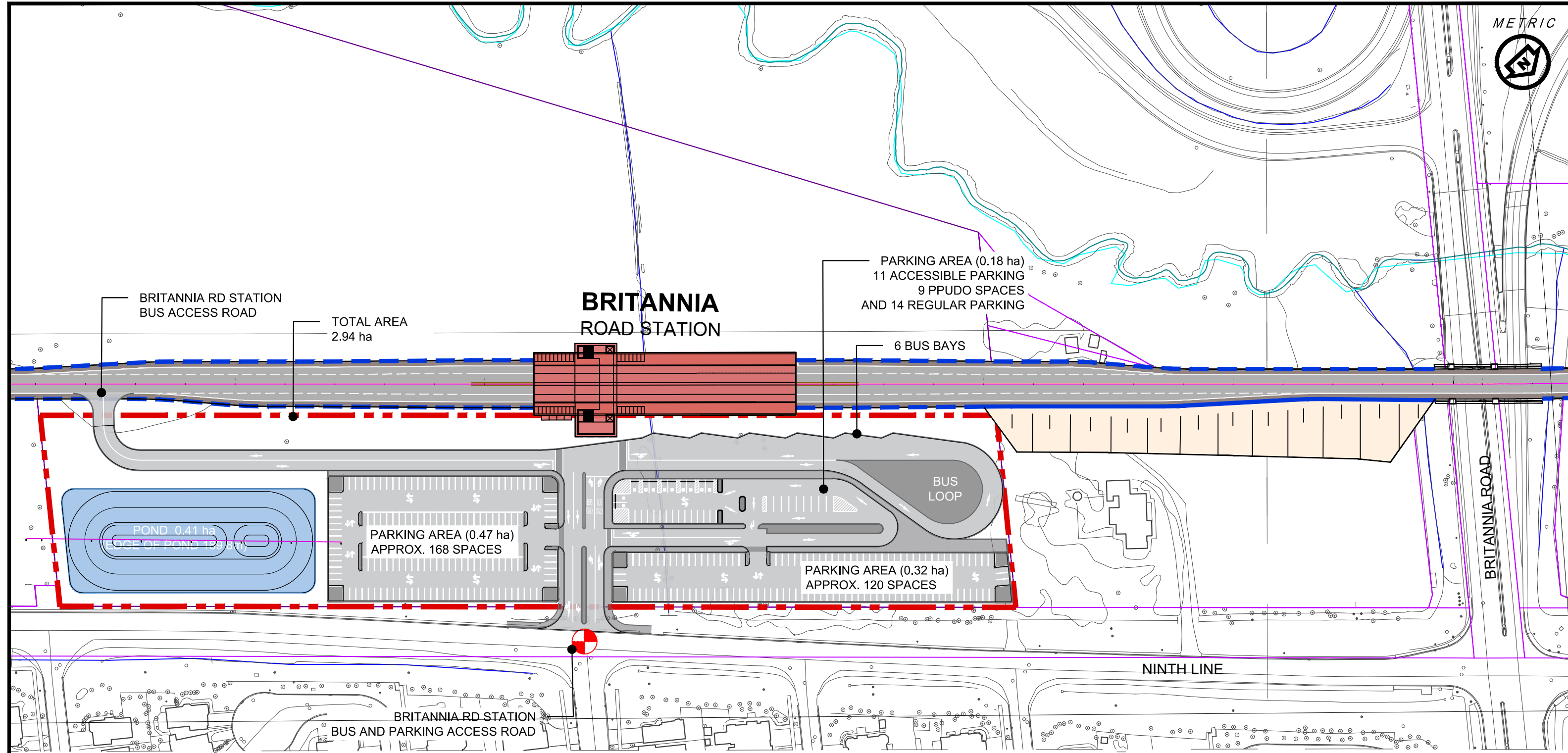
DRAWING NAME: \\C:\CAN\SZ\F501\Projects\TOR\476294 ON-MTO 407 TRANSITWAY WC TO BRANTTITE General\03 - Drawings\7 - Stations\Station layouts\407 TWA - Trafalgar Station.dwg
CREATED: Jun 11, 2020 7:54pm
MODIFIED:



407 TRANSITWAY
WEST OF BRANT STREET TO WEST OF HURONTARIO STREET
G.W.P. 16-20003, CA 2016-E-0038
STATIONS

DRAWING SET
TRAFALGAR
ROAD
STATION

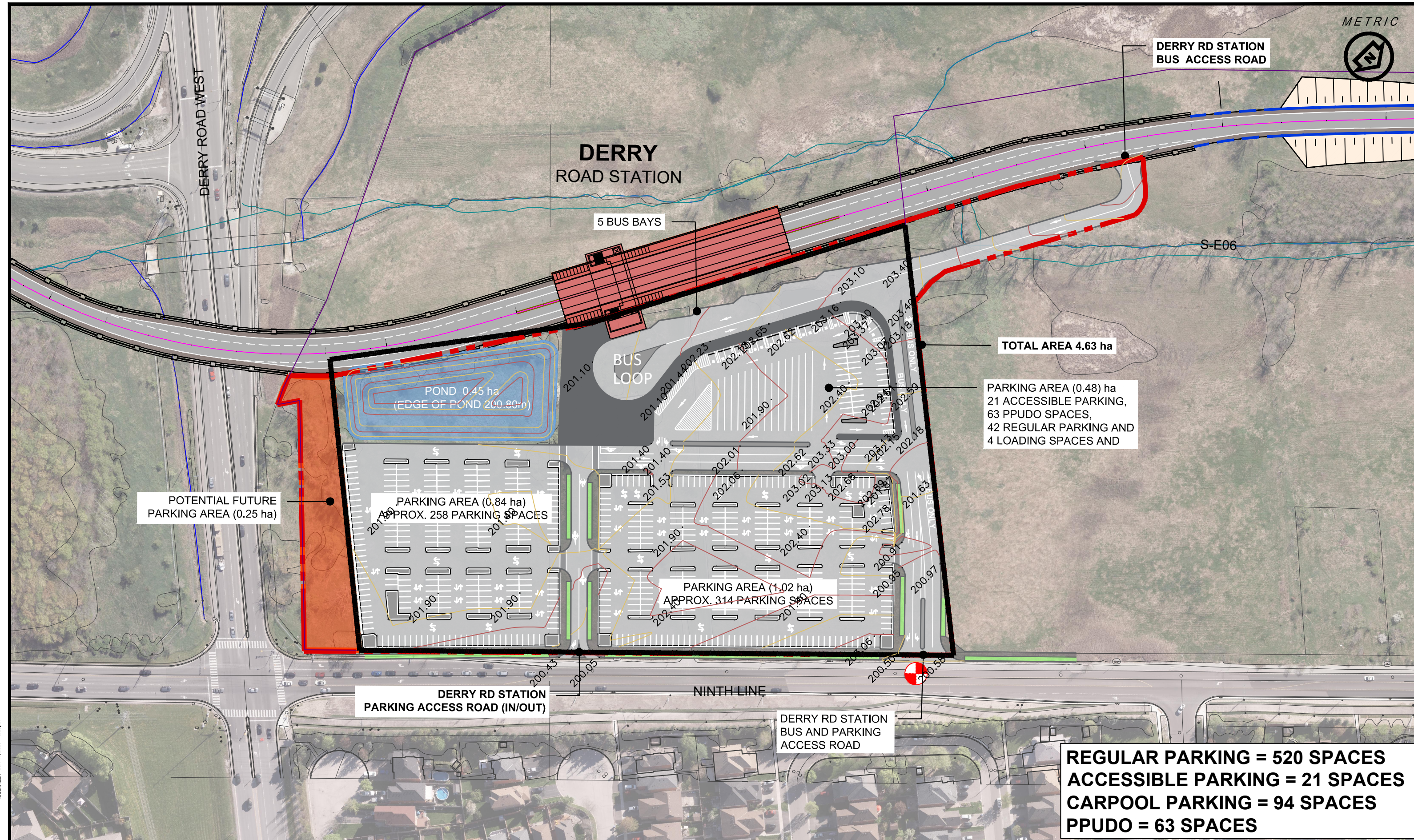
PLATE
S-4A
DATE
15/11/2019



EXISTING BUS STOP

REGULAR PARKING = 140 SPACES
ACCESSIBLE PARKING = 11 SPACES
CARPOOL PARKING = 148 SPACES
PPUDO = 9 SPACES

DRAWING NAME: \\C:\CAN\S2501\Projects\TOR\47294 ON-MTO 407 TRANSITWAY WC TO BRANTT10 General\03 - Drawings\7 - Stations\Station layouts\407 TWA - Britannia Rd Station.dwg
 CREATED: Jun 11, 2020 8:13pm
 MODIFIED: Jun 11, 2020 8:13pm



DERRY RD STATION
BUS ACCESS ROAD

DERRY
ROAD STATION

5 BUS BAYS

BUS
LOOP

POND 0.45 ha
(EDGE OF POND 200.80m)

POTENTIAL FUTURE
PARKING AREA (0.25 ha)

PARKING AREA (0.84 ha)
APPROX. 258 PARKING SPACES

PARKING AREA (1.02 ha)
APPROX. 314 PARKING SPACES

TOTAL AREA 4.63 ha

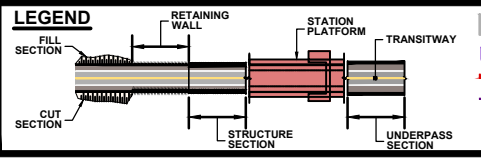
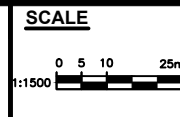
PARKING AREA (0.48 ha)
21 ACCESSIBLE PARKING,
63 PPUDO SPACES,
42 REGULAR PARKING AND
4 LOADING SPACES AND

DERRY RD STATION
PARKING ACCESS ROAD (IN/OUT)

NINTH LINE

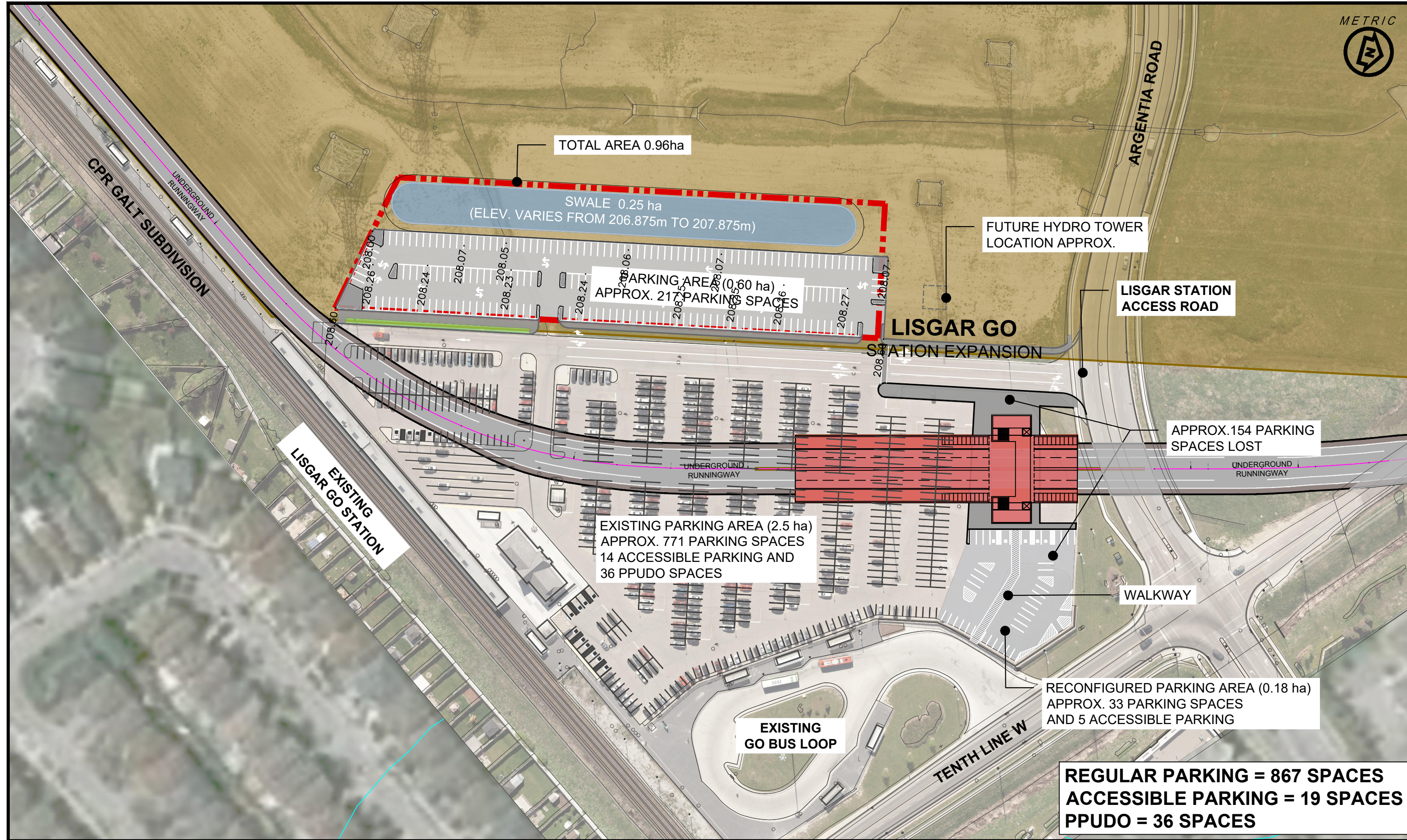
DERRY RD STATION
BUS AND PARKING
ACCESS ROAD

REGULAR PARKING = 520 SPACES
ACCESSIBLE PARKING = 21 SPACES
CARPOOL PARKING = 94 SPACES
PPUDO = 63 SPACES

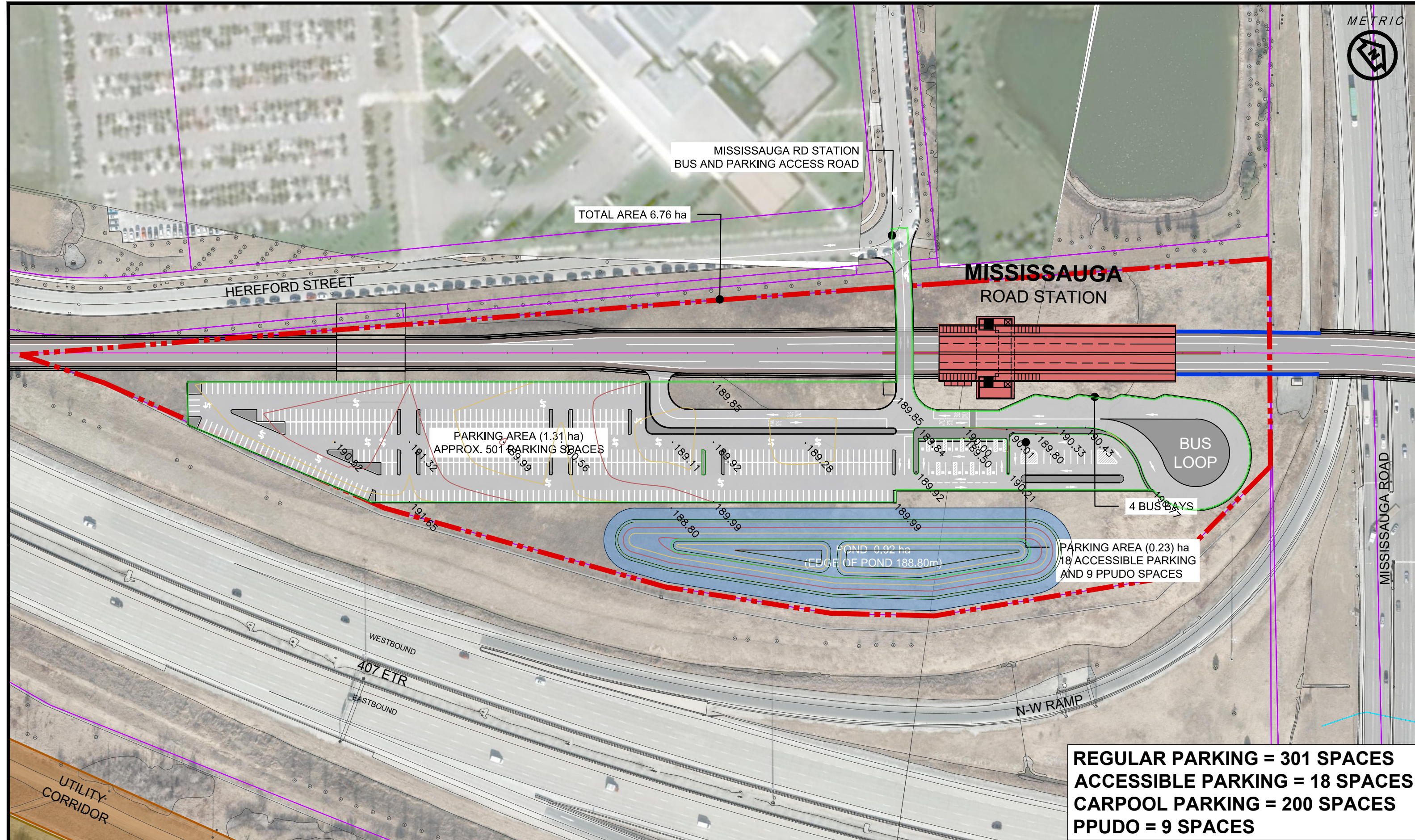


- TRAFFIC LANES AND MOVEMENT
- EXISTING BUS STOP
- STATION BOUNDARY
- PROPERTY LINE
- SWM POND
- HYDRO TOWER
- HYDRO CORRIDOR
- UTILITY CORRIDOR
- WALKWAY/SHARED USE PATH

DRAWING NAME: \\C:\CAN\S2F501\Projects\OR\476294 ON-MTO 407 TRANSITWAY WC TO BRANTYTTU General\03 - Drawings\7 - Stations\Station layouts\407 TWA - Derry Rd Station.dwg
CREATED: Jun 11, 2020 8:29pm
MODIFIED: Jun 11, 2020 8:29pm



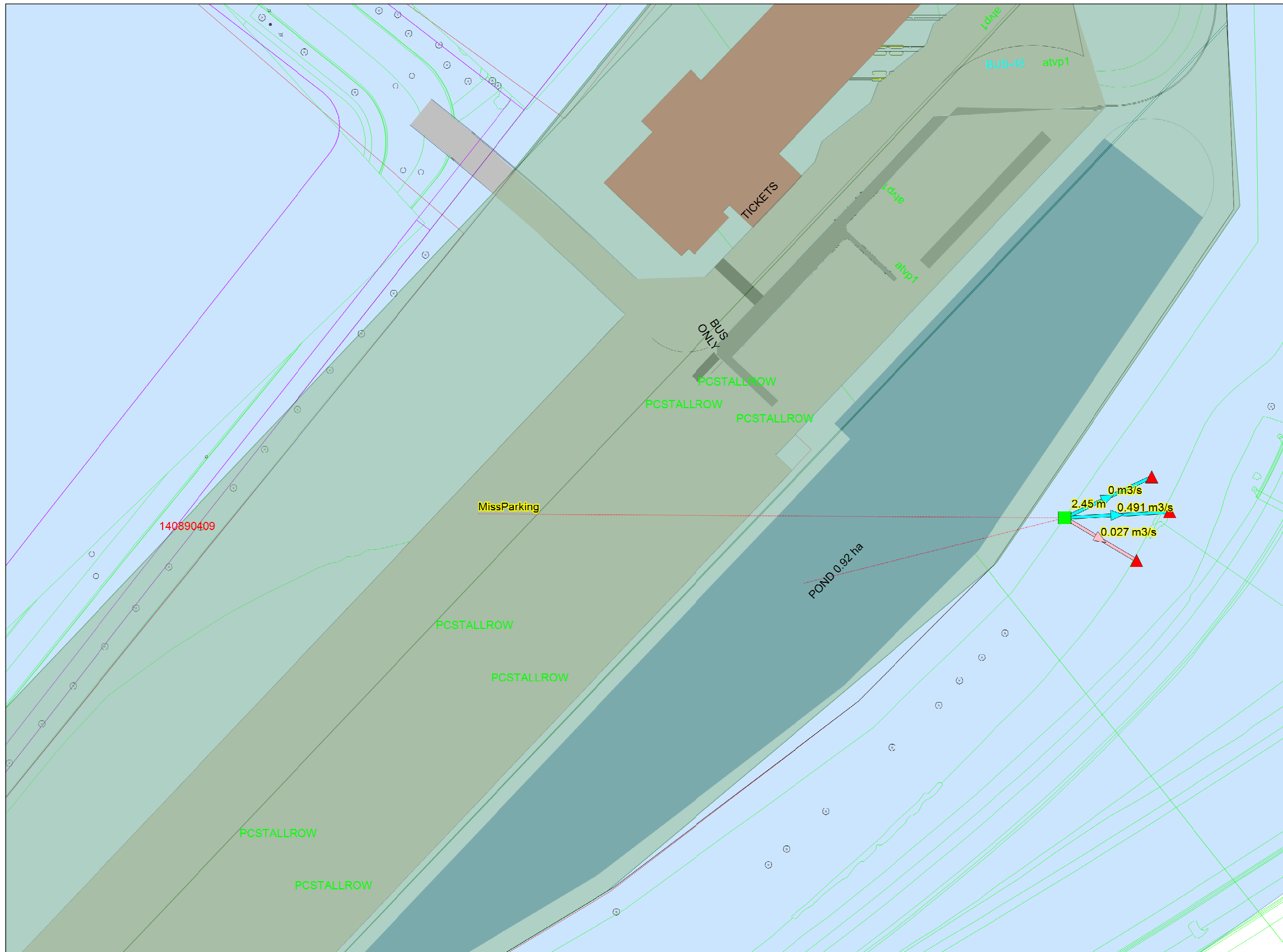
DRAWING NAME: \\C:\ANZ\F501\Projects\TOR\47284 ON-MTO 407 TRANSITWAY WC TO BRANTTTS General\03 - Drawings\7 - Stations\Station layouts\407 TW - Lisgar Station.dwg
CREATED: Jun 11, 2020 12:02am
MODIFIED: Jun 11, 2020 12:02am



REGULAR PARKING = 301 SPACES
ACCESSIBLE PARKING = 18 SPACES
CARPOOL PARKING = 200 SPACES
PPUDO = 9 SPACES

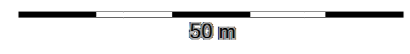
Appendix H Proposed TWY 4 Stations PCSWMM input and output files

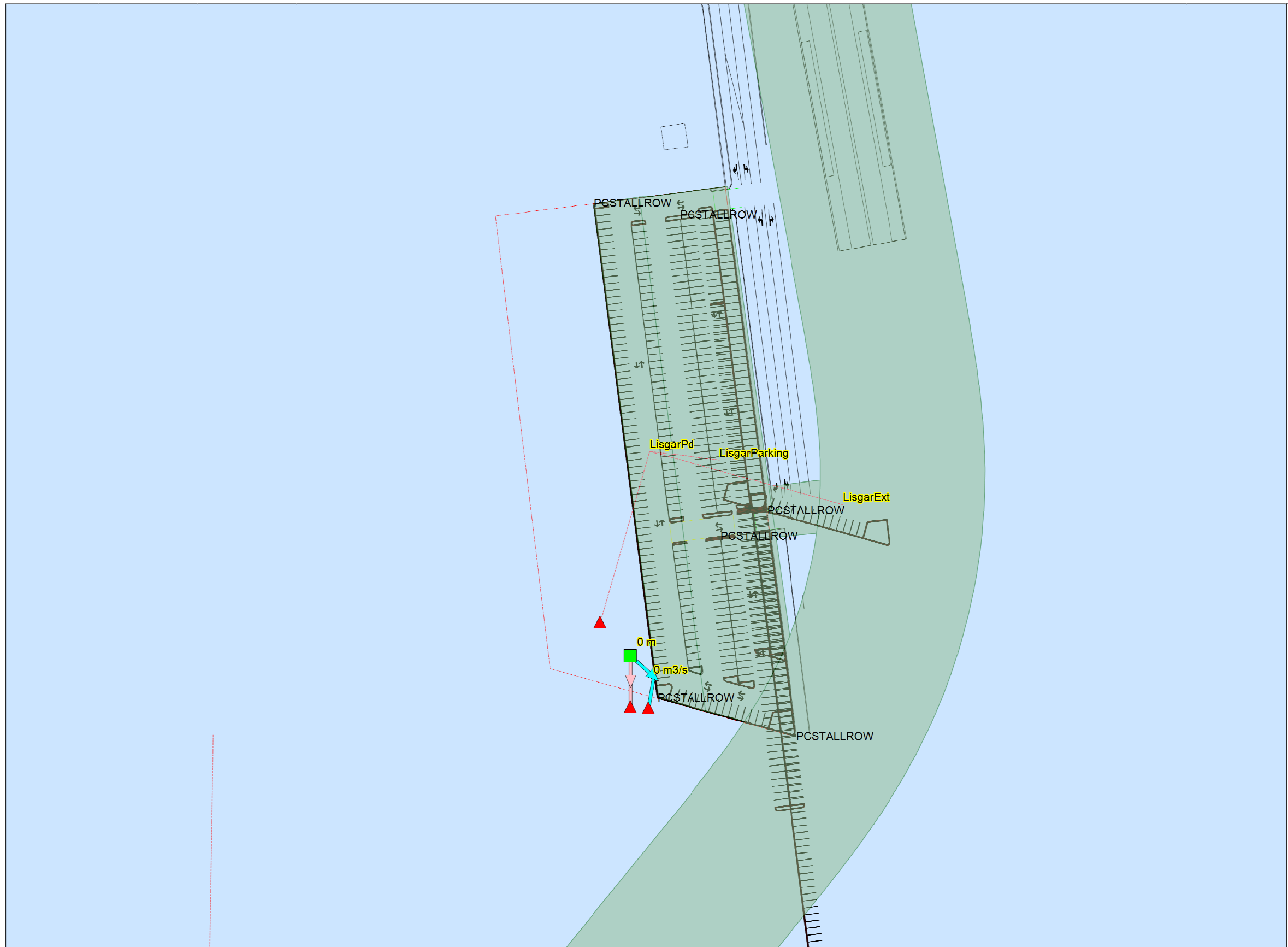
Stations SWM PCSWMM input and output files



Legend

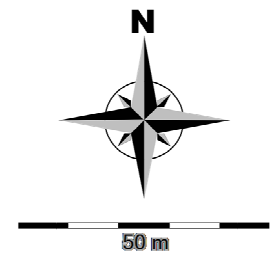
- Junctions
- ▲ Outfalls
- Storages
- Conduits
- Visible
- Visible
- Orifices
- Weirs
- Subcatchments
- ACAD-407 TW4 - Mississauga Rd_Opt 3-Model
- CVC_Regulatory_Floodlines_20170622_407_Corridor
- CrossingsProp
- ExstSC
- FP_Haz_PO_CH_MTM_Zone10

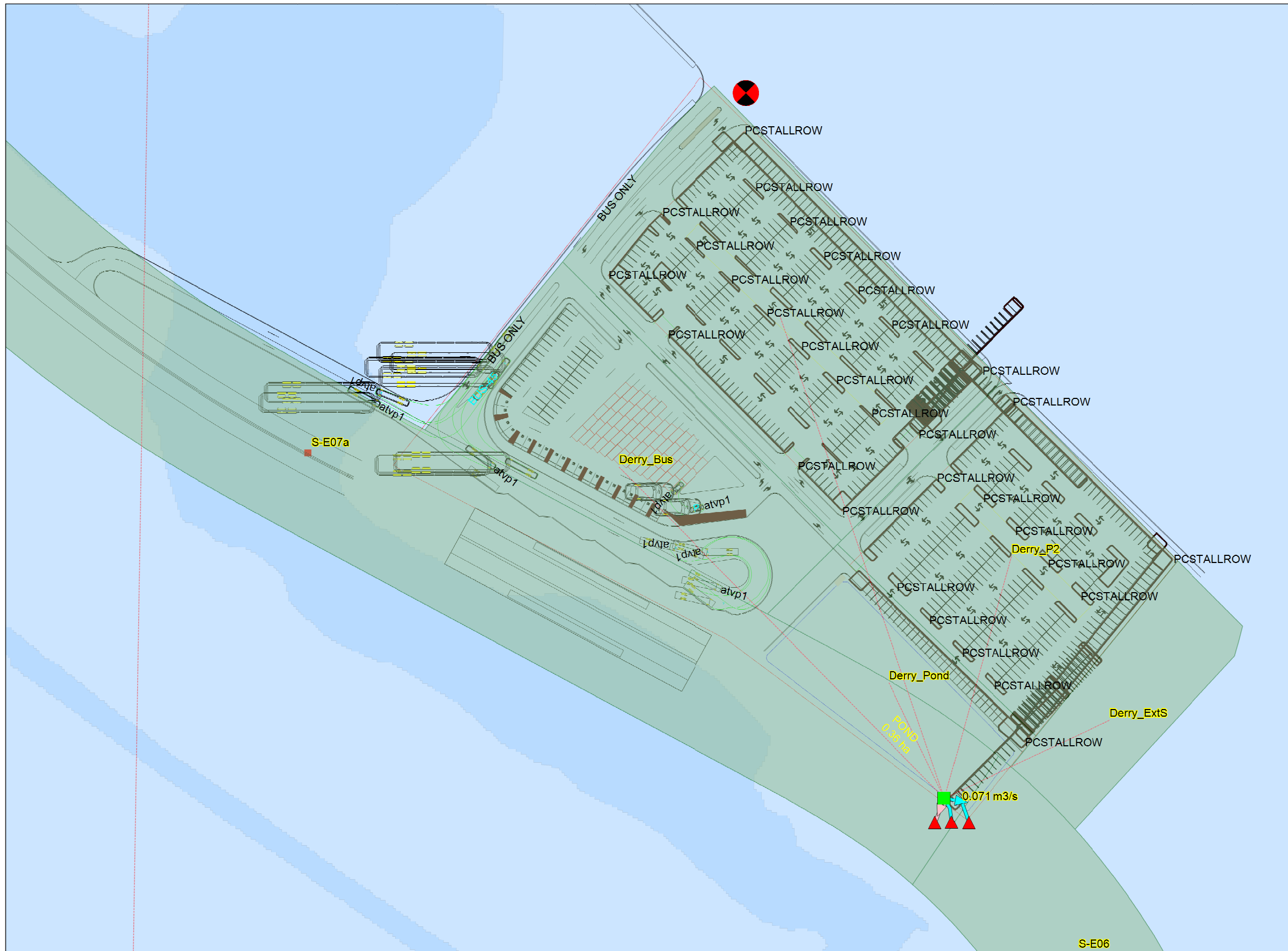




Legend

- Junctions
 - ▲ Outfalls
 - Storages
-
- Conduits
- Visible
 - - - Visible
-
- Orifices
 - Weirs
 - Subcatchments
 - CVC_Regulatory_Floodlines_20170622_407_Corridor
 - ACAD-2019.09.12407 TW4 - Lisgar Station_Opt 1-Model
 - CrossingsProp
 - ExstSC
 - FP_Haz_PO_CH_MTM_Zone10





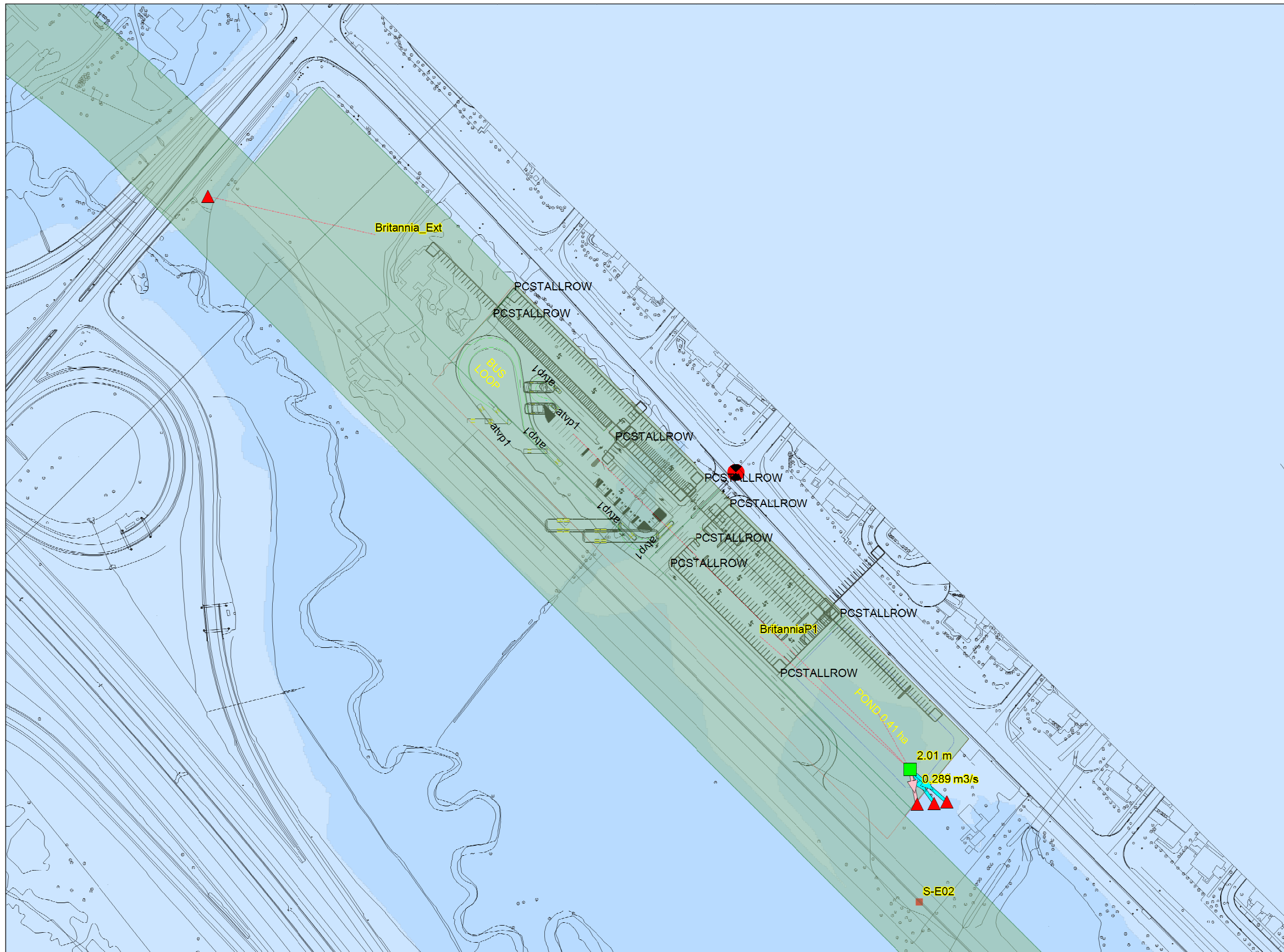
Legend

- Junctions
- ▲ Outfalls
- Storages

Conduits

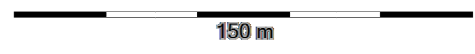
- Visible
- Visible

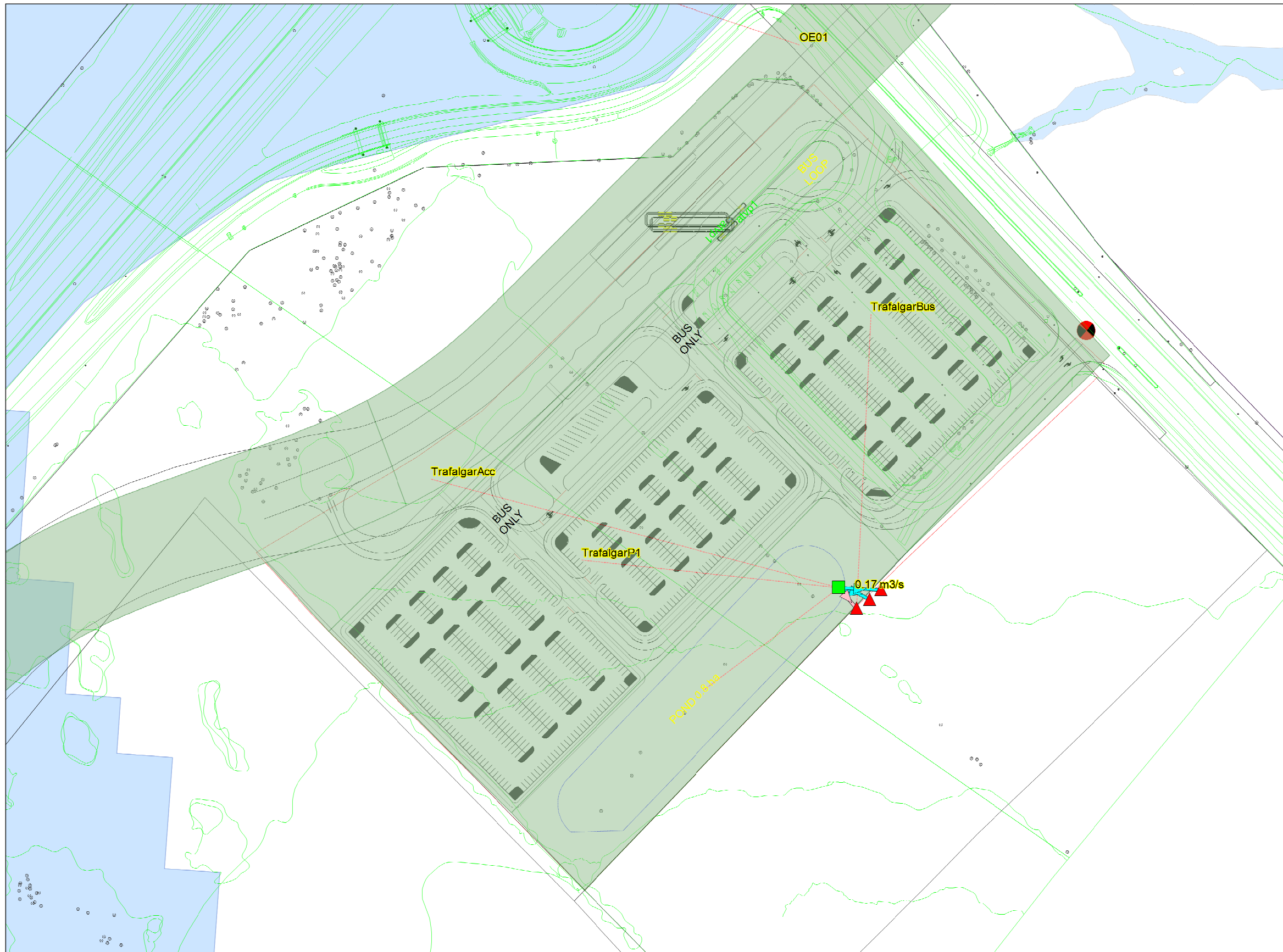
- Orifices
- Weirs
- Subcatchments
- ACAD-2019.09.12 407 TW4 - Derry Rd_Opt 1-Model
- CVC_Regulatory_Floodlines_20170622_407_Corridor
- CrossingsProp
- ExstSC
- FP_Haz_PO_CH_MTM_Zone10



Legend

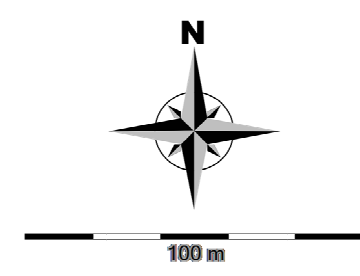
- Junctions
 - ▲ Outfalls
 - Storages
-
- Conduits
- Visible
 - - - Visible
-
- Orifices
 - Weirs
 - Subcatchments
 - ACAD-407 TW4 - Britannia Rd_Opt 1-Model
 - CVC_Regulatory_Floodlines_20170622_407_Corridor
 - CrossingsProp
 - ExstSC
 - FP_Haz_PO_CH_MTM_Zone10

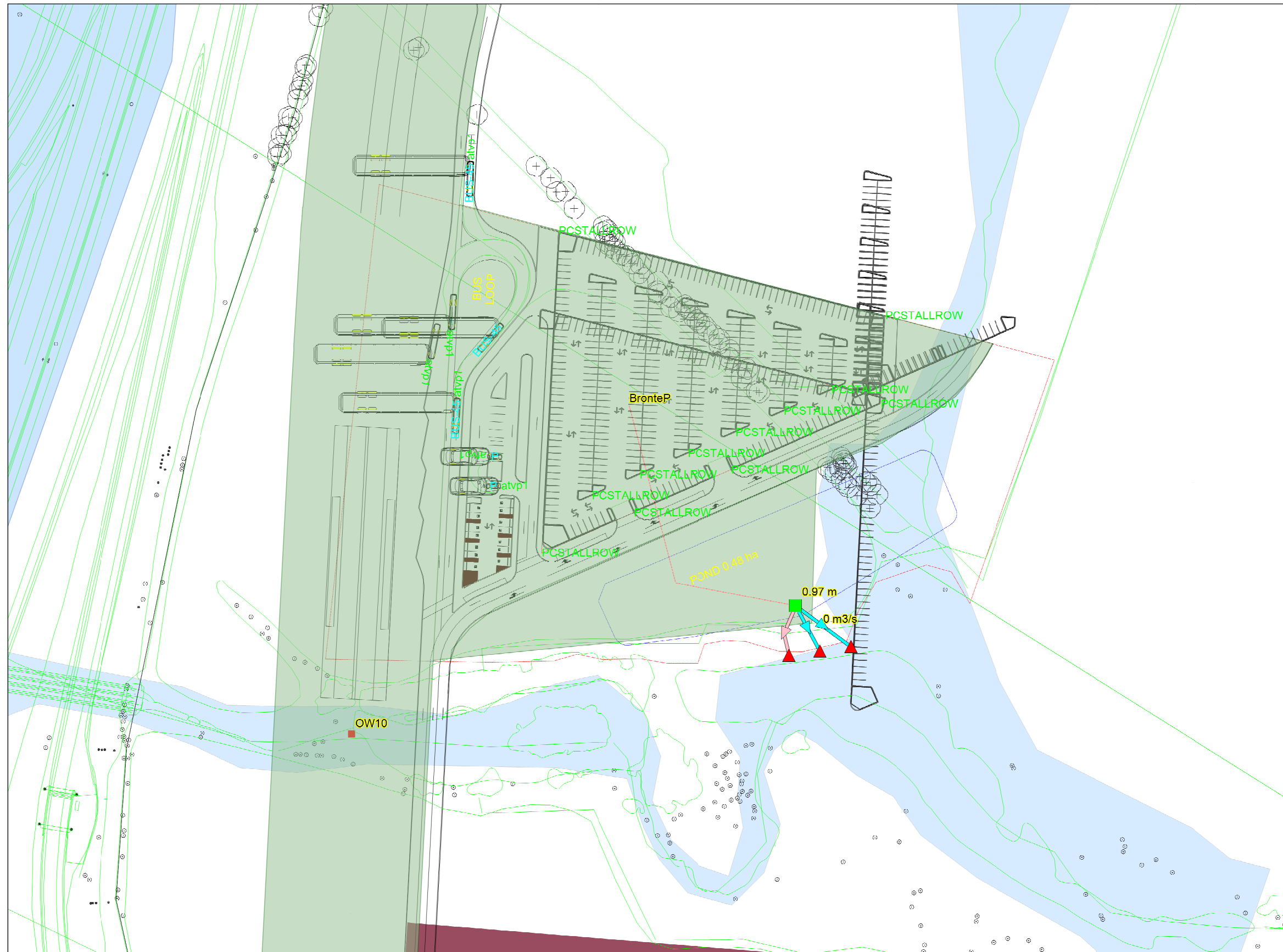




Legend

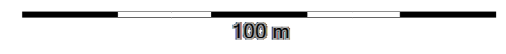
- Junctions
 - ▲ Outfalls
 - Storages
-
- Conduits
- Visible
 - - - Visible
-
- Orifices
 - Weirs
-
- Subcatchments
 - ACAD-407 TW4 - Trafalgar_Opt 2-Model
 - CVC_Regulatory_Floodlines_20170622_407_Corridor
 - CrossingsProp
 - ExstSC
 - FP_Haz_PO_CH_MTM_Zone10

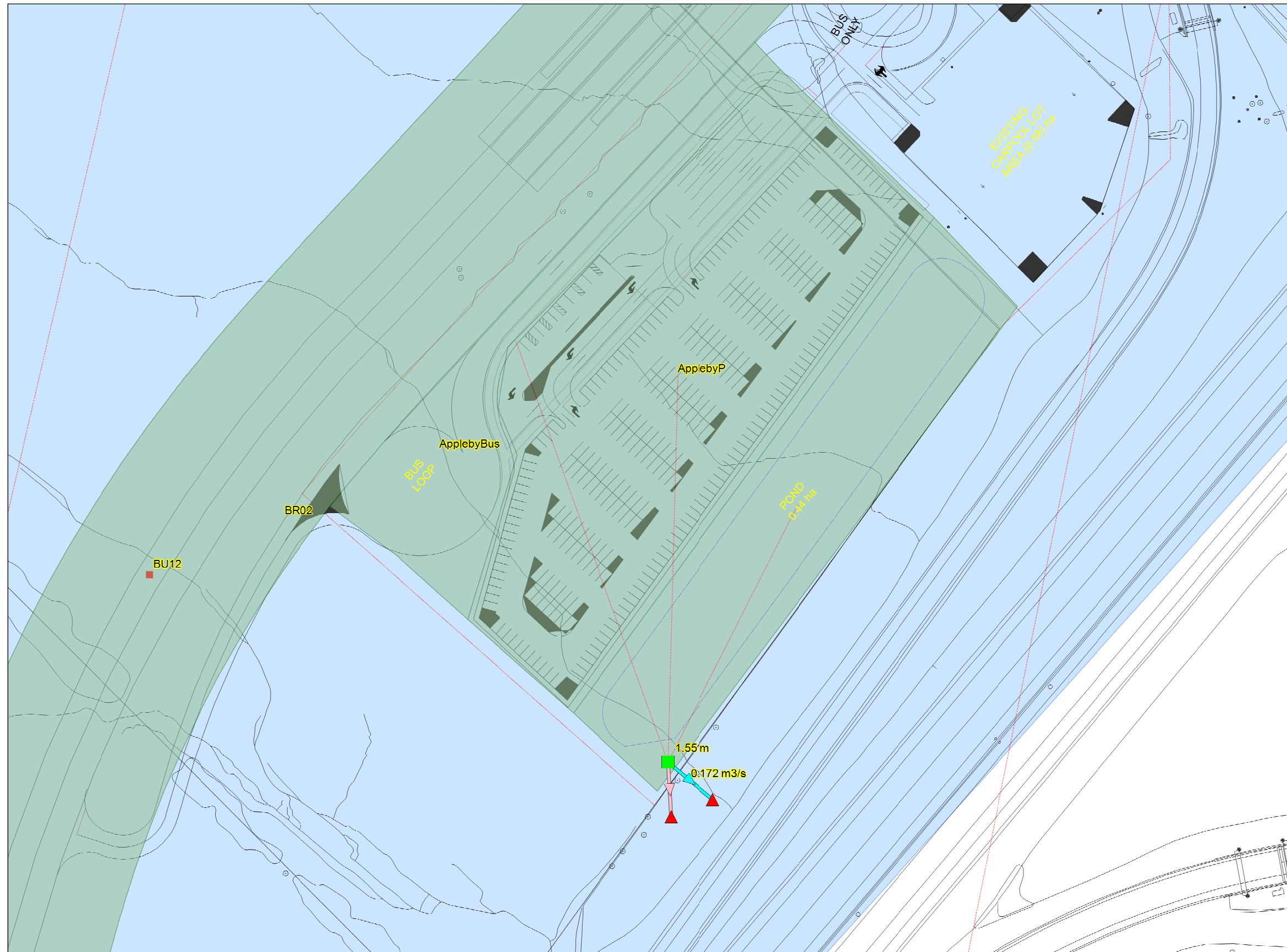




Legend

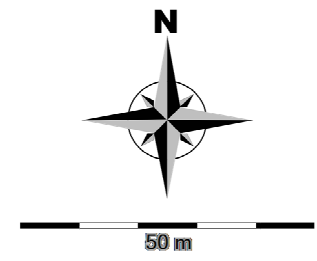
- Junctions
 - ▲ Outfalls
 - Storages
-
- Conduits
- Visible
 - - - Visible
-
- Orifices
 - Weirs
-
- Subcatchments
 - ACAD-407 TW4 - Bronte Rd_Opt 4-Model
 - CVC_Regulatory_Floodlines_20170622_407_Corridor
 - CrossingsProp
 - ExstSC
 - FP_Haz_PO_CH_MTM_Zone10

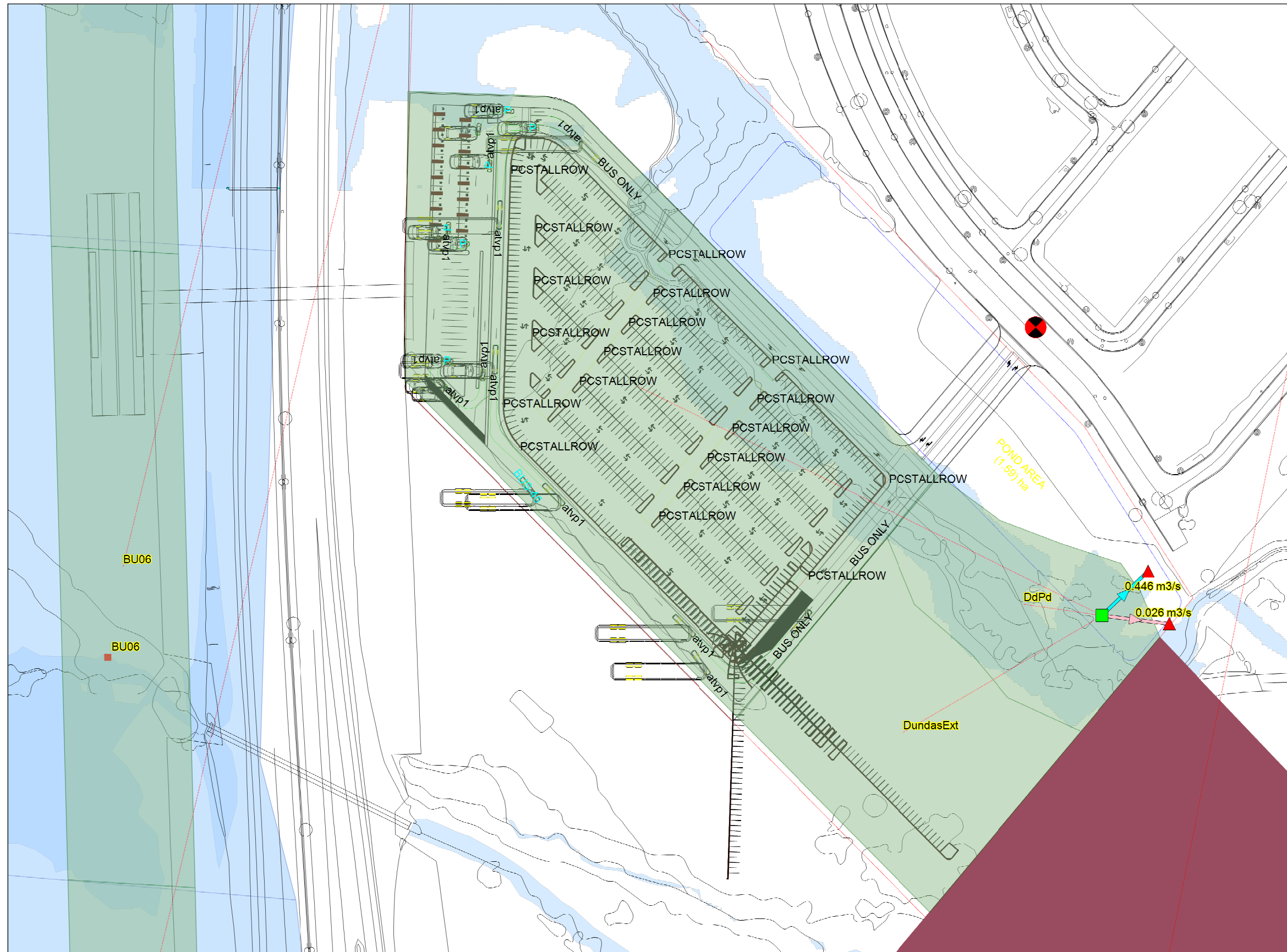




Legend

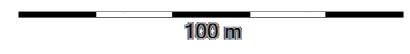
- Junctions
 - ▲ Outfalls
 - Storages
-
- Conduits
- Visible
 - Visible
-
- Orifices
 - Weirs
 - Subcatchments
 - ACAD-407 TW4 - Appleby Ln_Opt 3-Model
 - CVC_Regulatory_Floodlines_20170622_407_Corridor
 - CrossingsProp
 - ExstSC
 - FP_Haz_PO_CH_MTM_Zone10





Legend

- Junctions
- ▲ Outfalls
- Storages
- Conduits
- Visible
- Visible
- Orifices
- Weirs
- Subcatchments
- ACAD-407 TW4 - Dundas St_Opt 2-Model
- CVC_Regulatory_Floodlines_20170622_407_Corridor
- CrossingsProp
- ExstSC
- FP_Haz_PO_CH_MTM_Zone10



[TITLE]

[OPTIONS]

```
;;Options          Value
;;-----
FLOW_UNITS         CMS
INFILTRATION       HORTON
FLOW_ROUTING       DYNWAVE
START_DATE         10/01/2019
START_TIME         00:00:00
REPORT_START_DATE  10/01/2019
REPORT_START_TIME  00:00:00
END_DATE           10/03/2019
END_TIME           00:00:00
SWEEP_START        01/01
SWEEP_END          12/31
DRY_DAYS           0
REPORT_STEP        00:01:00
WET_STEP           00:05:00
DRY_STEP           00:05:00
ROUTING_STEP       5
ALLOW_PONDING     YES
INERTIAL_DAMPING   PARTIAL
VARIABLE_STEP      0.75
LENGTHENING_STEP  0
MIN_SURFAREA      0
NORMAL_FLOW_LIMITED BOTH
SKIP_STEADY_STATE NO
FORCE_MAIN_EQUATION H-W
LINK_OFFSETS      DEPTH
MIN_SLOPE          0
MAX_TRIALS         8
HEAD_TOLERANCE     0.0015
SYS_FLOW_TOL       5
LAT_FLOW_TOL       5
MINIMUM_STEP       0.5
THREADS            8
```

[EVAPORATION]

```
;;Type          Parameters
;;-----
CONSTANT        0.0
DRY_ONLY        NO
```

[RAINGAGES]

;;	Rain	Time	Snow	Data
;;Name	Type	Intrvl	Catch	Source
COB_SCSII24hr100yr	INTENSITY	0:15	1	TIMESERIES SCS_Type_II_105.32mm
COB_SCSII24hr10yr	INTENSITY	0:15	1	TIMESERIES COB_SCSII24hr10yr
COB_SCSII24hr25yr	INTENSITY	0:15	1	TIMESERIES COB_SCSII24hr25yr
COB_SCSII24hr2yr	INTENSITY	0:15	1	TIMESERIES COB_SCSII24hr2yr
COB_SCSII24hr50yr	INTENSITY	0:15	1	TIMESERIES COB_SCSII24hr50yr
COB_SCSII24hr5yr	INTENSITY	0:15	1	TIMESERIES COB_SCSII24hr5yr
COM_SCSII12hr100yr	INTENSITY	0:15	1	TIMESERIES COM_SCSII12hr100yr
COM_SCSII12hr10yr	INTENSITY	0:15	1	TIMESERIES COM_SCSII12hr10yr
COM_SCSII12hr25yr	INTENSITY	0:15	1	TIMESERIES COM_SCSII12hr25yr
COM_SCSII12hr2yr	INTENSITY	0:15	1	TIMESERIES COM_SCSII12hr2yr
COM_SCSII12hr50yr	INTENSITY	0:15	1	TIMESERIES COM_SCSII12hr50yr
COM_SCSII12hr5yr	INTENSITY	0:15	1	TIMESERIES COM_SCSII12hr5yr
COM_SCSII12hrCC	INTENSITY	0:15	1	TIMESERIES COM_SCSII12hrCC
Regional	INTENSITY	1:00	1.0	TIMESERIES Timeseries
TO_Chicago24hr100yr	INTENSITY	0:10	1	TIMESERIES TO_Chicago24hr100yr
TO_Chicago24hr10yr	INTENSITY	0:10	1	TIMESERIES TO_Chicago24hr10yr
TO_Chicago24hr25yr	INTENSITY	0:10	1	TIMESERIES TO_Chicago24hr25yr
TO_Chicago24hr2yr	INTENSITY	0:10	1	TIMESERIES TO_Chicago24hr2yr
TO_Chicago24hr50yr	INTENSITY	0:10	1	TIMESERIES TO_Chicago24hr50yr
TO_Chicago24hr5yr	INTENSITY	0:10	1	TIMESERIES TO_Chicago24hr5yr
TWY4_2094_100yrChi	INTENSITY	0:05	1	TIMESERIES Chicago_24h_100yr
TWY4_2094_100yrSCSII	INTENSITY	0:15	1	TIMESERIES SCS_Type_II_136.8mm
TWY4_2094_10yrSCSII	INTENSITY	0:15	1	TIMESERIES SCS_Type_II_98.4mm
TWY4_2094_25yrSCSII	INTENSITY	0:15	1	TIMESERIES SCS_Type_II_115.2mm
TWY4_2094_2yrSCSII	INTENSITY	0:15	1	TIMESERIES SCS_Type_II_69.6mm
TWY4_2094_50yrSCSII	INTENSITY	0:15	1	TIMESERIES SCS_Type_II_124.8mm
TWY4_2094_5yrSCSII	INTENSITY	0:15	1	TIMESERIES SCS_Type_II_86.4mm

[SUBCATCHMENTS]

;;			Total	Pcnt.		Pcnt.	Curb	Snow
;;Name	Raingage	Outlet	Area	Imperv	Width	Slope	Length	Pack
403IC	TWY4_2094_100yrSCSII	TWY4OF	17.9632	27	50	0.5	0	
ApplebyBus	COB_SCSII24hr100yr	ApplebyPond	0.5615	95	50	0.5	0	
ApplebyP	COB_SCSII24hr100yr	ApplebyPond	1.3131	100	100	2	0	
ApplebyPd	COB_SCSII24hr100yr	ApplebyPond	0.68	5	100	0.5	0	
BR02	TWY4_2094_100yrSCSII	TWY4OF	13.2692	27	50	0.5	0	
Britannia_Ext	COM_SCSII12hr100yr	BritEx	1.2843	5	80	0.5	0	
BritanniaBus	COM_SCSII12hr100yr	BritanniaPond	1.3124	100	80	2	0	
BritanniaPl	COM_SCSII12hr100yr	BritanniaPond	1.0813	95	80	2	0	
BritPond	COM_SCSII12hr100yr	BritanniaPond	0.5714	75	80	0.5	0	
BronteP	TO_Chicago24hr100yr	BrPond	2.0576	100	80	2	0	
BrPond	TO_Chicago24hr100yr	BrontePond	0.4902	5	40	0.5	0	

BU02	TWY4_2094_100yrSCSII TWY4OF	2.4485	61	50	0.5	0
BU04	TWY4_2094_100yrSCSII J4	5.594	27	50	0.5	0
BU04-Ex	COB_SCSII24hr100yr J3	235.1494	30	500	2	0
BU05	TWY4_2094_100yrSCSII TWY4OF	2.7951	27	50	0.5	0
BU06	TWY4_2094_100yrSCSII TWY4OF	1.8003	27	50	0.5	0
BU07	TWY4_2094_100yrSCSII TWY4OF	3.1955	27	50	0.5	0
BU08	TWY4_2094_100yrSCSII TWY4OF	2.3956	27	50	0.5	0
BU09	TWY4_2094_100yrSCSII TWY4OF	2.4047	27	50	0.5	0
BU10	TWY4_2094_100yrSCSII TWY4OF	4.789	27	50	0.5	0
BU11	TWY4_2094_100yrSCSII TWY4OF	1.778	27	50	0.5	0
DdPd	COB_SCSII24hr100yr DundasPond	0.8276	75	60	0.5	0
Derry_Bus	COM_SCSII12hr100yr DerryPond	1.2082	95	80	2	0
Derry_ExtS	COM_SCSII12hr100yr DerryPond	0.4814	5	40	0.4	0
Derry_P1	COM_SCSII12hr100yr DerryPond	1.4159	100	80	2	0
Derry_P2	COM_SCSII12hr100yr DerryPond	0.9164	100	80	2	0
Derry_Pond	COM_SCSII12hr100yr DerryPond	0.5451	75	80	2	0
DundasExt	COB_SCSII24hr100yr DundasPond	1.3145	5	125	4	0
DundasParking	COB_SCSII24hr100yr DundasPond	4.0292	95	150	2	0
F03	TWY4_2094_100yrSCSII TWY4OF	3.6971	27	50	0.5	0
F03-ROW_out	TWY4_2094_100yrSCSII TWY4OF	1.3469	27	50	0.5	0
L01	TWY4_2094_100yrSCSII TWY4OF	11.9954	27	50	0.5	0
Lisgar	TWY4_2094_100yrSCSII TWY4OF	28.2279	27	50	0.5	0
LisgarExt	COM_SCSII12hr100yr LisgarPd	0.0987	100	50	0.5	0
LisgarParking	COM_SCSII12hr100yr LisgarPd	0.6491	100	40	2	0
LisgarPd	COM_SCSII12hr100yr LisgarLID	0.3068	5	20	0.5	0
M01	TWY4_2094_100yrSCSII TWY4OF	8.4229	27	50	0.5	0
MissParking	COM_SCSII12hr100yr MsPond	4.4019	95	90	2	0
MissPond	COM_SCSII12hr100yr MsPond	1.1803	75	30	0.5	0
N01	TWY4_2094_100yrSCSII J2	6.8584	61	50	0.5	0
NP01	TWY4_2094_100yrSCSII TWY4OF	19.2475	27	50	0.5	0
OE01	TWY4_2094_100yrSCSII TWY4OF	3.7909	27	50	0.5	0
OE02	TWY4_2094_100yrSCSII TWY4OF	2.1443	27	50	0.5	0
OE03	TWY4_2094_100yrSCSII TWY4OF	2.1443	27	50	0.5	0
OE04	TWY4_2094_100yrSCSII TWY4OF	1.3223	27	50	0.5	0
OE05	TWY4_2094_100yrSCSII TWY4OF	1.4058	27	50	0.5	0
OW01	TWY4_2094_100yrSCSII TWY4OF	1.7707	27	50	0.5	0
OW02	TWY4_2094_100yrSCSII J7	3.6044	27	50	0.5	0
OW02-Ex	TWY4_2094_100yrSCSII J7	22.1367	10	500	4	0
OW04	TWY4_2094_100yrSCSII TWY4OF	2.9994	27	50	0.5	0
OW05	TWY4_2094_100yrSCSII TWY4OF	1.4779	27	50	0.5	0
OW06	TWY4_2094_100yrSCSII TWY4OF	1.9446	27	50	0.5	0
OW07	TWY4_2094_100yrSCSII TWY4OF	4.9812	27	50	0.5	0
OW11	TWY4_2094_100yrSCSII TWY4OF	7.7944	27	50	0.5	0
S02	TWY4_2094_100yrSCSII TWY4OF	24.5853	27	50	0.5	0
S03	TWY4_2094_100yrSCSII TWY4OF	14.4323	27	50	0.5	0
S-E01	TWY4_2094_100yrSCSII TWY4OF	13.7847	27	50	0.5	0

S-E03	TWY4_2094_100yrSCSII	TWY40F	19.2153	27	50	0.5	0
TfgPond	TO_Chicago24hr100yr	TrafalgarPond	1.3543	75	50	2	0
TrafalgarAcc	TO_Chicago24hr100yr	TrafalgarPond	0.8198	95	50	2	0
TrafalgarBus	TO_Chicago24hr100yr	TfgESC	3.3639	95	150	2	0
TrafalgarP1	TO_Chicago24hr100yr	TrafalgarPond	3.3778	100	150	2	0

[SUBAREAS]

;;Subcatchment	N-Imperv	N-Perv	S-Imperv	S-Perv	PctZero	RouteTo	PctRouted
;;-----	-----	-----	-----	-----	-----	-----	-----
403IC	0.013	0.25	1.5	4.5	0	OUTLET	
ApplebyBus	0.013	0.25	1.5	4.5	0	OUTLET	
ApplebyP	0.013	0.25	1.5	4.5	0	OUTLET	
ApplebyPd	0.013	0.25	1.5	4.5	0	OUTLET	
BR02	0.013	0.25	1.5	4.5	0	OUTLET	
Britannia_Ext	0.013	0.25	1.5	4.5	0	OUTLET	
BritanniaBus	0.013	0.25	1.5	4.5	0	OUTLET	
BritanniaP1	0.013	0.25	1.5	4.5	0	OUTLET	
BritPond	0.013	0.25	1.5	4.5	0	OUTLET	
BronteP	0.013	0.25	1.5	4.5	0	OUTLET	
BrPond	0.013	0.25	1.5	4.5	0	OUTLET	
BU02	0.013	0.25	1.5	4.5	0	OUTLET	
BU04	0.013	0.25	1.5	4.5	0	OUTLET	
BU04-Ex	0.013	0.25	1.5	4.5	0	OUTLET	
BU05	0.013	0.25	1.5	4.5	0	OUTLET	
BU06	0.013	0.25	1.5	4.5	0	OUTLET	
BU07	0.013	0.25	1.5	4.5	0	OUTLET	
BU08	0.013	0.25	1.5	4.5	0	OUTLET	
BU09	0.013	0.25	1.5	4.5	0	OUTLET	
BU10	0.013	0.25	1.5	4.5	0	OUTLET	
BU11	0.013	0.25	1.5	4.5	0	OUTLET	
DdPd	0.013	0.25	1.5	4.5	0	OUTLET	
Derry_Bus	0.013	0.25	1.5	4.5	0	OUTLET	
Derry_ExtS	0.013	0.25	1.4	4.5	0	OUTLET	
Derry_P1	0.013	0.25	1.5	4.5	0	OUTLET	
Derry_P2	0.013	0.25	1.5	4.5	0	OUTLET	
Derry_Pond	0.013	0.25	1.5	4.5	0	OUTLET	
DundasExt	0.013	0.25	1.5	4.5	0	OUTLET	
DundasParking	0.013	0.25	1.5	4.5	0	OUTLET	
F03	0.013	0.25	1.5	4.5	0	OUTLET	
F03-ROW_out	0.013	0.25	1.5	4.5	0	OUTLET	
L01	0.013	0.25	1.5	4.5	0	OUTLET	
Lisgar	0.013	0.25	1.5	4.5	0	OUTLET	
LisgarExt	0.013	0.25	1.5	4.5	0	OUTLET	
LisgarParking	0.013	0.25	1.5	4.5	0	OUTLET	
LisgarPd	0.013	0.25	1.5	4.5	0	OUTLET	
M01	0.013	0.25	1.5	4.5	0	OUTLET	

MissParking	0.013	0.25	1.5	4.5	0	OUTLET
MissPond	0.013	0.25	1.5	4.5	0	OUTLET
N01	0.013	0.25	1.5	4.5	0	OUTLET
NP01	0.013	0.25	1.5	4.5	0	OUTLET
OE01	0.013	0.25	1.5	4.5	0	OUTLET
OE02	0.013	0.25	1.5	4.5	0	OUTLET
OE03	0.013	0.25	1.5	4.5	0	OUTLET
OE04	0.013	0.25	1.5	4.5	0	OUTLET
OE05	0.013	0.25	1.5	4.5	0	OUTLET
OW01	0.013	0.25	1.5	4.5	0	OUTLET
OW02	0.013	0.25	1.5	4.5	0	OUTLET
OW02-Ex	0.013	0.25	1.5	4.5	0	OUTLET
OW04	0.013	0.25	1.5	4.5	0	OUTLET
OW05	0.013	0.25	1.5	4.5	0	OUTLET
OW06	0.013	0.25	1.5	4.5	0	OUTLET
OW07	0.013	0.25	1.5	4.5	0	OUTLET
OW11	0.013	0.25	1.5	4.5	0	OUTLET
S02	0.013	0.25	1.5	4.5	0	OUTLET
S03	0.013	0.25	1.5	4.5	0	OUTLET
S-E01	0.013	0.25	1.5	4.5	0	OUTLET
S-E03	0.013	0.25	1.5	4.5	0	OUTLET
TfgPond	0.013	0.25	1.5	4.5	0	OUTLET
TrafalgarAcc	0.013	0.25	1.5	4.5	0	OUTLET
TrafalgarBus	0.013	0.25	1.5	4.5	0	OUTLET
TrafalgarPl	0.013	0.25	1.5	4.5	0	OUTLET

[INFILTRATION]

;;Subcatchment	MaxRate	MinRate	Decay	DryTime	MaxInfil
;;-----	-----	-----	-----	-----	-----
403IC	50	7.5	1.98	7	0
ApplebyBus	50	7.5	1.98	7	0
ApplebyP	50	7.5	1.98	7	0
ApplebyPd	50	7.5	1.98	7	0
BR02	50	7.5	1.98	7	0
Britannia_Ext	50	7.5	1.98	7	0
BritanniaBus	50	7.5	1.98	7	0
BritanniaPl	50	7.5	1.98	7	0
BritPond	50	7.5	1.98	7	0
BronteP	50	7.5	1.98	7	0
BrPond	50	7.5	1.98	7	0
BU02	50	7.5	1.98	7	0
BU04	50	7.5	1.98	7	0
BU04-Ex	50	7.5	1.98	7	0
BU05	50	7.5	1.98	7	0
BU06	50	7.5	1.98	7	0
BU07	50	7.5	1.98	7	0

BU08	50	7.5	1.98	7	0
BU09	50	7.5	1.98	7	0
BU10	50	7.5	1.98	7	0
BU11	50	7.5	1.98	7	0
DdPd	50	7.5	1.98	7	0
Derry_Bus	50	7.5	1.98	7	0
Derry_ExtS	50	7.5	1.98	7	0
Derry_P1	50	7.5	1.98	7	0
Derry_P2	50	7.5	1.98	7	0
Derry_Pond	50	7.5	1.98	7	0
DundasExt	50	7.5	1.98	7	0
DundasParking	50	7.5	1.98	7	0
F03	50	7.5	1.98	7	0
F03-ROW_out	50	7.5	1.98	7	0
L01	50	7.5	1.98	7	0
Lisgar	50	7.5	1.98	7	0
LisgarExt	50	7.5	1.98	7	0
LisgarParking	50	7.5	1.98	7	0
LisgarPd	50	7.5	1.98	7	0
M01	50	7.5	1.98	7	0
MissParking	50	7.5	1.98	7	0
MissPond	50	7.5	1.98	7	0
N01	50	7.5	1.98	7	0
NP01	50	7.5	1.98	7	0
OE01	50	7.5	1.98	7	0
OE02	50	7.5	1.98	7	0
OE03	50	7.5	1.98	7	0
OE04	50	7.5	1.98	7	0
OE05	50	7.5	1.98	7	0
OW01	50	7.5	1.98	7	0
OW02	50	7.5	1.98	7	0
OW02-Ex	50	7.5	1.98	7	0
OW04	50	7.5	1.98	7	0
OW05	50	7.5	1.98	7	0
OW06	50	7.5	1.98	7	0
OW07	50	7.5	1.98	7	0
OW11	50	7.5	1.98	7	0
S02	50	7.5	1.98	7	0
S03	50	7.5	1.98	7	0
S-E01	50	7.5	1.98	7	0
S-E03	50	7.5	1.98	7	0
TfgPond	50	7.5	1.98	7	0
TrafalgarAcc	50	7.5	1.98	7	0
TrafalgarBus	50	7.5	1.98	7	0
TrafalgarP1	50	7.5	1.98	7	0

[LID_CONTROLS]

```

;;
Type/Layer Parameters
-----
DrySwale BC
DrySwale SURFACE 300 0.5 0.025 1.0 5
DrySwale SOIL 600 0.471 0.342 0.21 20 10.0 270
DrySwale STORAGE 150 0.5 0 0
DrySwale DRAIN 20 1 0 6

EnhancedSwale BC
EnhancedSwale SURFACE 750 0.5 0.25 0.2 3
EnhancedSwale SOIL 300 0.501 0.284 0.135 10 10.0 220
EnhancedSwale STORAGE 500 0.5 0.5 0
EnhancedSwale DRAIN 0 0.5 6 6
  
```

[LID_USAGE]

```

;;Subcatchment LID Process Number Area Width InitSatur FromImprv ToPerv Report File Drain
-----
BR02 EnhancedSwale 1 19904 10 48 100 0
BU02 EnhancedSwale 1 3673 10 48 100 0
BU04 EnhancedSwale 1 8391 10 48 100 0
BU05 EnhancedSwale 1 4193 10 48 100 0
BU06 EnhancedSwale 1 2700 10 48 100 0
BU07 EnhancedSwale 1 4793 10 48 100 0
BU08 EnhancedSwale 1 3593 10 48 100 0
BU09 EnhancedSwale 1 3607 10 48 100 0
BU10 EnhancedSwale 1 7184 10 48 100 0
BU11 EnhancedSwale 1 2667 10 48 100 0
F03 EnhancedSwale 1 5546 10 48 100 0
L01 EnhancedSwale 1 17993 10 48 100 0
LisgarPd DrySwale 1 3068 200 0 100 0 "J:\Division\TT\Drainage\476294
M01 EnhancedSwale 1 12634 10 48 100 0
N01 EnhancedSwale 1 10288 10 48 100 0
NP01 EnhancedSwale 1 28871 10 48 100 0
OE01 EnhancedSwale 1 5686 10 48 100 0
OE02 EnhancedSwale 1 3216 10 48 100 0
OE03 EnhancedSwale 1 3216 10 48 100 0
OE04 EnhancedSwale 1 1983 10 48 100 0
OE05 EnhancedSwale 1 2109 10 48 100 0
OW01 EnhancedSwale 1 2656 10 48 100 0
OW02 EnhancedSwale 1 5407 10 48 100 0
OW04 EnhancedSwale 1 4499 10 48 100 0
OW05 EnhancedSwale 1 2217 10 48 100 0
OW06 EnhancedSwale 1 2917 10 48 100 0
OW07 EnhancedSwale 1 7472 10 48 100 0
OW11 EnhancedSwale 1 11692 10 48 100 0
  
```

S02	EnhancedSwale	1	21653	10	48	100	0
S03	EnhancedSwale	1	36874	10	48	100	0
S-E01	EnhancedSwale	1	20677	10	48	100	0
S-E03	EnhancedSwale	1	28823	10	48	100	0

[JUNCTIONS]

;;	Invert	Max.	Init.	Surcharge	Ponded
;;Name	Elev.	Depth	Depth	Depth	Area
;;-----	-----	-----	-----	-----	-----
J2	116	0	0	0	0
J3	158.75	2.25	0	0	500
J4	152.96	3.04	0	0	100
J5	152.17	5.83	0	0	0
J6	153.26	2	0	0	50
J7	155.4	2	0	0	500

[OUTFALLS]

;;	Invert	Outfall	Stage/Table	Tide
;;Name	Elev.	Type	Time Series	Gate Route To
;;-----	-----	-----	-----	-----
ABESC	163	FREE		NO
ABWQ	163	FREE		NO
Brit	188.5	FREE		NO
BritESC	188.5	FREE		NO
BritEx	188.5	FREE		NO
BronteCtrl	163.5	FREE		NO
BronteESC	163.5	FREE		NO
BronteOverflo	163.5	FREE		NO
DerryESC	199	FREE		NO
DerryOverflo	199	FREE		NO
DerryQCtrl	199	FREE		NO
LisgarLID	206	FREE		NO
LisgarOF	206	FREE		NO
LisgarOverflo	206	FREE		NO
OF1	155	FREE		NO
OF2	155	FREE		NO
OF3	188.5	FREE		NO
OF4	150.74	FREE		NO
OF5	182	FREE		NO
OF6	182	FREE		NO
OF7	185	FREE		NO
OF8	115	FREE		NO
OW02OF	155	FIXED	155.65	NO
TfgESC	189.5	FREE		NO
TfgOut	189.5	FREE		NO
TfgSpill	189.5	FREE		NO

TWY40F 0 FREE NO

[STORAGE]

;; ;;Name	Invert Elev.	Max. Depth	Init. Depth	Storage Curve	Curve Params	Ponded Area	Evap. Frac.	Infiltration parameters	
ApplebyPond	163	2	0	TABULAR	ABPond	0	0		
BritanniaPond	187.5	5	1	TABULAR	BrtPond	0	0		
BrontePond	164	5	0	TABULAR	BRPond	0	0		
DerryPond	198	5	1	TABULAR	DrPond	0	0		
DundasPond	154	4	1	TABULAR	DdPond	0	0		
LisgarPond	206	2	0	TABULAR	LgPond	0	0		
MsPond	186	5	1	TABULAR	MsPond	0	0		
TrafalgarPond	189.5	2.5	1	TABULAR	TfgPond	0	0		

[CONDUITS]

;; ;;Name	Inlet Node	Outlet Node	Length	Manning N	Inlet Offset	Outlet Offset	Init. Flow	Max. Flow
C1	J3	J4	112.048	0.013	0	0	0	0
C2	J4	J5	119.428	0.011	0	0	0	0
C3	J5	OF4	273.383	0.013	0	0	0	0
C4	J6	J4	250.274	0.013	0	0	0	0
C5	J2	OF8	540.774	0.013	0	0	0	0
C6	J7	OW02OF	370.863	0.013	0	0	0	0

[ORIFICES]

;; ;;Name	Inlet Node	Outlet Node	Orifice Type	Crest Height	Disch. Coeff.	Flap Gate	Open/Close Time
OR1	TrafalgarPond	TfgESC	SIDE	1	0.65	NO	0
OR2	DerryPond	DerryESC	SIDE	1	0.65	NO	0
OR3	BritanniaPond	BritESC	SIDE	1	0.65	NO	0
OR4	BrontePond	BronteESC	SIDE	0	0.65	NO	0
OR5	LisgarPond	LisgarOF	SIDE	0	0.65	NO	0
OR6	ApplebyPond	ABESC	SIDE	0	0.65	NO	0
OR8	DundasPond	OF1	SIDE	1	0.65	NO	0
OR9	MsPond	OF5	SIDE	1	0.65	NO	0

[WEIRS]

;; ;;Name	Inlet Node	Outlet Node	Weir Type	Crest Height	Disch. Coeff.	Flap Gate	End Con.	End Coeff.	Surcharge	RoadWid
OR7	ApplebyPond	ABWQ	TRANSVERSE	1	1.7	NO	0	0	YES	
W1	TrafalgarPond	TfgSpill	TRAPEZOIDAL	1.8	1.7	NO	0	0	YES	
W10	DundasPond	OF2	TRANSVERSE	1.3	1.7	NO	0	0	YES	

W11	MsPond	OF6	V-NOTCH	1.4	1.7	NO	0	0	YES
W12	MsPond	OF7	TRANSVERSE	2.5	1.7	NO	0	0	YES
W2	DerryPond	DerryOverflo	TRAPEZOIDAL	2.5	1.7	NO	0	0	YES
W3	DerryPond	DerryQCtrl	TRANSVERSE	1.6	1.7	NO	0	0	YES
W4	TrafalgarPond	TfgOut	V-NOTCH	1.2	1.7	NO	0	0	YES
W5	BritanniaPond	Brit	V-NOTCH	1.3	1.7	NO	0	0	YES
W6	BritanniaPond	OF3	TRANSVERSE	2	1.7	NO	0	0	YES
W7	BrontePond	BronteCtrl	V-NOTCH	0.5	1.7	NO	0	0	YES
W8	BrontePond	BronteOverflo	TRAPEZOIDAL	1.5	1.7	NO	0	0	YES
W9	LisgarPond	LisgarOverflo	TRANSVERSE	1	1.7	NO	0	0	YES

[XSECTIONS]

;;Link	Shape	Geom1	Geom2	Geom3	Geom4	Barrels
;;-----	-----	-----	-----	-----	-----	-----
C1	CIRCULAR	2.1	0	0	0	1
C2	CIRCULAR	2.6	0	0	0	1
C3	RECT_CLOSED	3	2.1	0	0	1
C4	CIRCULAR	0.75	0	0	0	1
C5	CIRCULAR	1.2	0	0	0	1
C6	CIRCULAR	1.65	0	0	0	1
OR1	CIRCULAR	0.1	0	0	0	
OR2	CIRCULAR	0.1	0	0	0	
OR3	CIRCULAR	0.075	0	0	0	
OR4	CIRCULAR	0.075	0	0	0	
OR5	CIRCULAR	0.075	0	0	0	
OR6	CIRCULAR	0.075	0	0	0	
OR8	CIRCULAR	0.1	0	0	0	
OR9	CIRCULAR	0.1	0	0	0	
OR7	RECT_OPEN	1	0.25	0	0	
W1	TRAPEZOIDAL	1	1	3	3	
W10	RECT_OPEN	1	0.25	0	0	
W11	TRIANGULAR	1	0.55	0	0	
W12	RECT_OPEN	1	0.25	0	0	
W2	TRAPEZOIDAL	1	1	3	3	
W3	RECT_OPEN	1	0.2	0	0	
W4	TRIANGULAR	1	0.8	0	0	
W5	TRIANGULAR	1	0.8	0	0	
W6	RECT_OPEN	1	3	0	0	
W7	TRIANGULAR	1	2	0	0	
W8	TRAPEZOIDAL	1	1	3	3	
W9	RECT_OPEN	1	0.25	0	0	

[LOSSES]

;;Link	Inlet	Outlet	Average	Flap Gate	SeepageRate
;;-----	-----	-----	-----	-----	-----

[CURVES]

;;Name	Type	X-Value	Y-Value
ABPond	Storage	0	1500
ABPond		1	2600
ABPond		1.3	3000
BRPond	Storage	0	2000
BRPond		1	3000
BRPond		1.3	3500
BrtPond	Storage	0	200
BrtPond		1	1100
BrtPond		1.01	2100
BrtPond		1.3	2700
BrtPond		2	3500
BrtPond		2.3	4100
DdPond	Storage	0	700
DdPond		0.8	1500
DdPond		1	1700
DdPond		1.01	3100
DdPond		2.3	5400
DrPond	Storage	0	500
DrPond		1	1500
DrPond		1.6	2000
DrPond		2.5	3300
DrPond		2.8	3500
LgPond	Storage	0	1400
LgPond		1	2500
LgPond		1.3	2800
MsPond	Storage	0	600
MsPond		0.8	1800
MsPond		1	2300
MsPond		1.01	2300
MsPond		1.3	2800
MsPond		2.5	5300
MsPond		2.8	5800
TfgPond	Storage	0	1000
TfgPond		0.8	2200
TfgPond		1	3000
TfgPond		1.01	3000

TfgPond	1.2	4500
TfgPond	1.8	5900
TfgPond	2.1	6400

[TIMESERIES]

```
;;Name          Date          Time          Value
;;-----
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;SCS_Type_II_136.8mm design storm, total rainfall = 136.8 mm, rain units = mm/hr.
```

12hrSCS_Type_II_136.8mm	0:00	1.505
12hrSCS_Type_II_136.8mm	0:15	1.505
12hrSCS_Type_II_136.8mm	0:30	1.505
12hrSCS_Type_II_136.8mm	0:45	1.505
12hrSCS_Type_II_136.8mm	1:00	1.505
12hrSCS_Type_II_136.8mm	1:15	1.505
12hrSCS_Type_II_136.8mm	1:30	1.505
12hrSCS_Type_II_136.8mm	1:45	1.505
12hrSCS_Type_II_136.8mm	2:00	1.778
12hrSCS_Type_II_136.8mm	2:15	1.778
12hrSCS_Type_II_136.8mm	2:30	1.778
12hrSCS_Type_II_136.8mm	2:45	1.778
12hrSCS_Type_II_136.8mm	3:00	1.778
12hrSCS_Type_II_136.8mm	3:15	1.778
12hrSCS_Type_II_136.8mm	3:30	1.778
12hrSCS_Type_II_136.8mm	3:45	1.778
12hrSCS_Type_II_136.8mm	4:00	2.189
12hrSCS_Type_II_136.8mm	4:15	2.189
12hrSCS_Type_II_136.8mm	4:30	2.189
12hrSCS_Type_II_136.8mm	4:45	2.189
12hrSCS_Type_II_136.8mm	5:00	2.189
12hrSCS_Type_II_136.8mm	5:15	2.189
12hrSCS_Type_II_136.8mm	5:30	2.189
12hrSCS_Type_II_136.8mm	5:45	2.189
12hrSCS_Type_II_136.8mm	6:00	2.462
12hrSCS_Type_II_136.8mm	6:15	2.462
12hrSCS_Type_II_136.8mm	6:30	2.462
12hrSCS_Type_II_136.8mm	6:45	2.462
12hrSCS_Type_II_136.8mm	7:00	3.01
12hrSCS_Type_II_136.8mm	7:15	3.01
12hrSCS_Type_II_136.8mm	7:30	3.01
12hrSCS_Type_II_136.8mm	7:45	3.01
12hrSCS_Type_II_136.8mm	8:00	3.557
12hrSCS_Type_II_136.8mm	8:15	3.557
12hrSCS_Type_II_136.8mm	8:30	3.83
12hrSCS_Type_II_136.8mm	8:45	3.83
12hrSCS_Type_II_136.8mm	9:00	4.378
12hrSCS_Type_II_136.8mm	9:15	4.378

12hrSCS_Type_II_136.8mm	9:30	4.925
12hrSCS_Type_II_136.8mm	9:45	4.925
12hrSCS_Type_II_136.8mm	10:00	6.293
12hrSCS_Type_II_136.8mm	10:15	6.293
12hrSCS_Type_II_136.8mm	10:30	8.482
12hrSCS_Type_II_136.8mm	10:45	8.482
12hrSCS_Type_II_136.8mm	11:00	13.133
12hrSCS_Type_II_136.8mm	11:15	13.133
12hrSCS_Type_II_136.8mm	11:30	40.493
12hrSCS_Type_II_136.8mm	11:45	167.443
12hrSCS_Type_II_136.8mm	12:00	19.699
12hrSCS_Type_II_136.8mm	12:15	19.699
12hrSCS_Type_II_136.8mm	12:30	10.123
12hrSCS_Type_II_136.8mm	12:45	10.123
12hrSCS_Type_II_136.8mm	13:00	7.387
12hrSCS_Type_II_136.8mm	13:15	7.387
12hrSCS_Type_II_136.8mm	13:30	5.746
12hrSCS_Type_II_136.8mm	13:45	5.746
12hrSCS_Type_II_136.8mm	14:00	4.104
12hrSCS_Type_II_136.8mm	14:15	4.104
12hrSCS_Type_II_136.8mm	14:30	4.104
12hrSCS_Type_II_136.8mm	14:45	4.104
12hrSCS_Type_II_136.8mm	15:00	4.104
12hrSCS_Type_II_136.8mm	15:15	4.104
12hrSCS_Type_II_136.8mm	15:30	4.104
12hrSCS_Type_II_136.8mm	15:45	4.104
12hrSCS_Type_II_136.8mm	16:00	2.462
12hrSCS_Type_II_136.8mm	16:15	2.462
12hrSCS_Type_II_136.8mm	16:30	2.462
12hrSCS_Type_II_136.8mm	16:45	2.462
12hrSCS_Type_II_136.8mm	17:00	2.462
12hrSCS_Type_II_136.8mm	17:15	2.462
12hrSCS_Type_II_136.8mm	17:30	2.462
12hrSCS_Type_II_136.8mm	17:45	2.462
12hrSCS_Type_II_136.8mm	18:00	2.462
12hrSCS_Type_II_136.8mm	18:15	2.462
12hrSCS_Type_II_136.8mm	18:30	2.462
12hrSCS_Type_II_136.8mm	18:45	2.462
12hrSCS_Type_II_136.8mm	19:00	2.462
12hrSCS_Type_II_136.8mm	19:15	2.462
12hrSCS_Type_II_136.8mm	19:30	2.462
12hrSCS_Type_II_136.8mm	19:45	2.462
12hrSCS_Type_II_136.8mm	20:00	1.642
12hrSCS_Type_II_136.8mm	20:15	1.642
12hrSCS_Type_II_136.8mm	20:30	1.642
12hrSCS_Type_II_136.8mm	20:45	1.642

12hrSCS_Type_II_136.8mm	21:00	1.642
12hrSCS_Type_II_136.8mm	21:15	1.642
12hrSCS_Type_II_136.8mm	21:30	1.642
12hrSCS_Type_II_136.8mm	21:45	1.642
12hrSCS_Type_II_136.8mm	22:00	1.642
12hrSCS_Type_II_136.8mm	22:15	1.642
12hrSCS_Type_II_136.8mm	22:30	1.642
12hrSCS_Type_II_136.8mm	22:45	1.642
12hrSCS_Type_II_136.8mm	23:00	1.642
12hrSCS_Type_II_136.8mm	23:15	1.642
12hrSCS_Type_II_136.8mm	23:30	1.642
12hrSCS_Type_II_136.8mm	23:45	1.642

;Chicago design storm, a = 991.144, b = 1.5, c = 0.714, Duration = 1440 minutes, r = 0.35, rain units = mm/hr.

Chicago_24h_100yr	0:00	1.584
Chicago_24h_100yr	0:05	1.596
Chicago_24h_100yr	0:10	1.607
Chicago_24h_100yr	0:15	1.619
Chicago_24h_100yr	0:20	1.631
Chicago_24h_100yr	0:25	1.643
Chicago_24h_100yr	0:30	1.656
Chicago_24h_100yr	0:35	1.668
Chicago_24h_100yr	0:40	1.681
Chicago_24h_100yr	0:45	1.694
Chicago_24h_100yr	0:50	1.708
Chicago_24h_100yr	0:55	1.721
Chicago_24h_100yr	1:00	1.735
Chicago_24h_100yr	1:05	1.75
Chicago_24h_100yr	1:10	1.764
Chicago_24h_100yr	1:15	1.779
Chicago_24h_100yr	1:20	1.794
Chicago_24h_100yr	1:25	1.809
Chicago_24h_100yr	1:30	1.825
Chicago_24h_100yr	1:35	1.841
Chicago_24h_100yr	1:40	1.858
Chicago_24h_100yr	1:45	1.874
Chicago_24h_100yr	1:50	1.891
Chicago_24h_100yr	1:55	1.909
Chicago_24h_100yr	2:00	1.927
Chicago_24h_100yr	2:05	1.945
Chicago_24h_100yr	2:10	1.964
Chicago_24h_100yr	2:15	1.983
Chicago_24h_100yr	2:20	2.003
Chicago_24h_100yr	2:25	2.023
Chicago_24h_100yr	2:30	2.043
Chicago_24h_100yr	2:35	2.064

Chicago_24h_100yr	2:40	2.086
Chicago_24h_100yr	2:45	2.108
Chicago_24h_100yr	2:50	2.131
Chicago_24h_100yr	2:55	2.154
Chicago_24h_100yr	3:00	2.178
Chicago_24h_100yr	3:05	2.203
Chicago_24h_100yr	3:10	2.228
Chicago_24h_100yr	3:15	2.254
Chicago_24h_100yr	3:20	2.281
Chicago_24h_100yr	3:25	2.308
Chicago_24h_100yr	3:30	2.337
Chicago_24h_100yr	3:35	2.366
Chicago_24h_100yr	3:40	2.396
Chicago_24h_100yr	3:45	2.427
Chicago_24h_100yr	3:50	2.459
Chicago_24h_100yr	3:55	2.492
Chicago_24h_100yr	4:00	2.526
Chicago_24h_100yr	4:05	2.561
Chicago_24h_100yr	4:10	2.598
Chicago_24h_100yr	4:15	2.635
Chicago_24h_100yr	4:20	2.675
Chicago_24h_100yr	4:25	2.715
Chicago_24h_100yr	4:30	2.757
Chicago_24h_100yr	4:35	2.801
Chicago_24h_100yr	4:40	2.846
Chicago_24h_100yr	4:45	2.893
Chicago_24h_100yr	4:50	2.942
Chicago_24h_100yr	4:55	2.993
Chicago_24h_100yr	5:00	3.046
Chicago_24h_100yr	5:05	3.102
Chicago_24h_100yr	5:10	3.16
Chicago_24h_100yr	5:15	3.22
Chicago_24h_100yr	5:20	3.284
Chicago_24h_100yr	5:25	3.35
Chicago_24h_100yr	5:30	3.42
Chicago_24h_100yr	5:35	3.494
Chicago_24h_100yr	5:40	3.571
Chicago_24h_100yr	5:45	3.653
Chicago_24h_100yr	5:50	3.74
Chicago_24h_100yr	5:55	3.831
Chicago_24h_100yr	6:00	3.928
Chicago_24h_100yr	6:05	4.031
Chicago_24h_100yr	6:10	4.141
Chicago_24h_100yr	6:15	4.259
Chicago_24h_100yr	6:20	4.385
Chicago_24h_100yr	6:25	4.52

Chicago_24h_100yr	6:30	4.665
Chicago_24h_100yr	6:35	4.822
Chicago_24h_100yr	6:40	4.993
Chicago_24h_100yr	6:45	5.179
Chicago_24h_100yr	6:50	5.382
Chicago_24h_100yr	6:55	5.606
Chicago_24h_100yr	7:00	5.853
Chicago_24h_100yr	7:05	6.128
Chicago_24h_100yr	7:10	6.437
Chicago_24h_100yr	7:15	6.785
Chicago_24h_100yr	7:20	7.183
Chicago_24h_100yr	7:25	7.642
Chicago_24h_100yr	7:30	8.177
Chicago_24h_100yr	7:35	8.813
Chicago_24h_100yr	7:40	9.582
Chicago_24h_100yr	7:45	10.534
Chicago_24h_100yr	7:50	11.751
Chicago_24h_100yr	7:55	13.369
Chicago_24h_100yr	8:00	15.652
Chicago_24h_100yr	8:05	19.164
Chicago_24h_100yr	8:10	25.451
Chicago_24h_100yr	8:15	41.121
Chicago_24h_100yr	8:20	260.445
Chicago_24h_100yr	8:25	85.573
Chicago_24h_100yr	8:30	53.829
Chicago_24h_100yr	8:35	36.434
Chicago_24h_100yr	8:40	28.269
Chicago_24h_100yr	8:45	23.427
Chicago_24h_100yr	8:50	20.182
Chicago_24h_100yr	8:55	17.837
Chicago_24h_100yr	9:00	16.053
Chicago_24h_100yr	9:05	14.643
Chicago_24h_100yr	9:10	13.497
Chicago_24h_100yr	9:15	12.545
Chicago_24h_100yr	9:20	11.739
Chicago_24h_100yr	9:25	11.047
Chicago_24h_100yr	9:30	10.446
Chicago_24h_100yr	9:35	9.917
Chicago_24h_100yr	9:40	9.448
Chicago_24h_100yr	9:45	9.029
Chicago_24h_100yr	9:50	8.652
Chicago_24h_100yr	9:55	8.311
Chicago_24h_100yr	10:00	8
Chicago_24h_100yr	10:05	7.716
Chicago_24h_100yr	10:10	7.455
Chicago_24h_100yr	10:15	7.214

Chicago_24h_100yr	10:20	6.991
Chicago_24h_100yr	10:25	6.784
Chicago_24h_100yr	10:30	6.591
Chicago_24h_100yr	10:35	6.411
Chicago_24h_100yr	10:40	6.242
Chicago_24h_100yr	10:45	6.083
Chicago_24h_100yr	10:50	5.934
Chicago_24h_100yr	10:55	5.793
Chicago_24h_100yr	11:00	5.66
Chicago_24h_100yr	11:05	5.534
Chicago_24h_100yr	11:10	5.414
Chicago_24h_100yr	11:15	5.301
Chicago_24h_100yr	11:20	5.193
Chicago_24h_100yr	11:25	5.09
Chicago_24h_100yr	11:30	4.992
Chicago_24h_100yr	11:35	4.899
Chicago_24h_100yr	11:40	4.809
Chicago_24h_100yr	11:45	4.724
Chicago_24h_100yr	11:50	4.642
Chicago_24h_100yr	11:55	4.563
Chicago_24h_100yr	12:00	4.487
Chicago_24h_100yr	12:05	4.415
Chicago_24h_100yr	12:10	4.345
Chicago_24h_100yr	12:15	4.277
Chicago_24h_100yr	12:20	4.212
Chicago_24h_100yr	12:25	4.15
Chicago_24h_100yr	12:30	4.09
Chicago_24h_100yr	12:35	4.031
Chicago_24h_100yr	12:40	3.975
Chicago_24h_100yr	12:45	3.92
Chicago_24h_100yr	12:50	3.868
Chicago_24h_100yr	12:55	3.817
Chicago_24h_100yr	13:00	3.767
Chicago_24h_100yr	13:05	3.719
Chicago_24h_100yr	13:10	3.673
Chicago_24h_100yr	13:15	3.627
Chicago_24h_100yr	13:20	3.584
Chicago_24h_100yr	13:25	3.541
Chicago_24h_100yr	13:30	3.5
Chicago_24h_100yr	13:35	3.459
Chicago_24h_100yr	13:40	3.42
Chicago_24h_100yr	13:45	3.382
Chicago_24h_100yr	13:50	3.345
Chicago_24h_100yr	13:55	3.309
Chicago_24h_100yr	14:00	3.274
Chicago_24h_100yr	14:05	3.239

Chicago_24h_100yr	14:10	3.206
Chicago_24h_100yr	14:15	3.173
Chicago_24h_100yr	14:20	3.141
Chicago_24h_100yr	14:25	3.11
Chicago_24h_100yr	14:30	3.08
Chicago_24h_100yr	14:35	3.05
Chicago_24h_100yr	14:40	3.021
Chicago_24h_100yr	14:45	2.993
Chicago_24h_100yr	14:50	2.965
Chicago_24h_100yr	14:55	2.938
Chicago_24h_100yr	15:00	2.911
Chicago_24h_100yr	15:05	2.885
Chicago_24h_100yr	15:10	2.86
Chicago_24h_100yr	15:15	2.835
Chicago_24h_100yr	15:20	2.811
Chicago_24h_100yr	15:25	2.787
Chicago_24h_100yr	15:30	2.764
Chicago_24h_100yr	15:35	2.741
Chicago_24h_100yr	15:40	2.718
Chicago_24h_100yr	15:45	2.696
Chicago_24h_100yr	15:50	2.674
Chicago_24h_100yr	15:55	2.653
Chicago_24h_100yr	16:00	2.632
Chicago_24h_100yr	16:05	2.612
Chicago_24h_100yr	16:10	2.592
Chicago_24h_100yr	16:15	2.572
Chicago_24h_100yr	16:20	2.553
Chicago_24h_100yr	16:25	2.534
Chicago_24h_100yr	16:30	2.515
Chicago_24h_100yr	16:35	2.497
Chicago_24h_100yr	16:40	2.479
Chicago_24h_100yr	16:45	2.461
Chicago_24h_100yr	16:50	2.444
Chicago_24h_100yr	16:55	2.427
Chicago_24h_100yr	17:00	2.41
Chicago_24h_100yr	17:05	2.394
Chicago_24h_100yr	17:10	2.377
Chicago_24h_100yr	17:15	2.361
Chicago_24h_100yr	17:20	2.346
Chicago_24h_100yr	17:25	2.33
Chicago_24h_100yr	17:30	2.315
Chicago_24h_100yr	17:35	2.3
Chicago_24h_100yr	17:40	2.285
Chicago_24h_100yr	17:45	2.27
Chicago_24h_100yr	17:50	2.256
Chicago_24h_100yr	17:55	2.242

Chicago_24h_100yr	18:00	2.228
Chicago_24h_100yr	18:05	2.214
Chicago_24h_100yr	18:10	2.201
Chicago_24h_100yr	18:15	2.188
Chicago_24h_100yr	18:20	2.174
Chicago_24h_100yr	18:25	2.162
Chicago_24h_100yr	18:30	2.149
Chicago_24h_100yr	18:35	2.136
Chicago_24h_100yr	18:40	2.124
Chicago_24h_100yr	18:45	2.112
Chicago_24h_100yr	18:50	2.1
Chicago_24h_100yr	18:55	2.088
Chicago_24h_100yr	19:00	2.076
Chicago_24h_100yr	19:05	2.064
Chicago_24h_100yr	19:10	2.053
Chicago_24h_100yr	19:15	2.042
Chicago_24h_100yr	19:20	2.031
Chicago_24h_100yr	19:25	2.02
Chicago_24h_100yr	19:30	2.009
Chicago_24h_100yr	19:35	1.998
Chicago_24h_100yr	19:40	1.987
Chicago_24h_100yr	19:45	1.977
Chicago_24h_100yr	19:50	1.967
Chicago_24h_100yr	19:55	1.957
Chicago_24h_100yr	20:00	1.947
Chicago_24h_100yr	20:05	1.937
Chicago_24h_100yr	20:10	1.927
Chicago_24h_100yr	20:15	1.917
Chicago_24h_100yr	20:20	1.908
Chicago_24h_100yr	20:25	1.898
Chicago_24h_100yr	20:30	1.889
Chicago_24h_100yr	20:35	1.88
Chicago_24h_100yr	20:40	1.87
Chicago_24h_100yr	20:45	1.861
Chicago_24h_100yr	20:50	1.852
Chicago_24h_100yr	20:55	1.844
Chicago_24h_100yr	21:00	1.835
Chicago_24h_100yr	21:05	1.826
Chicago_24h_100yr	21:10	1.818
Chicago_24h_100yr	21:15	1.809
Chicago_24h_100yr	21:20	1.801
Chicago_24h_100yr	21:25	1.793
Chicago_24h_100yr	21:30	1.785
Chicago_24h_100yr	21:35	1.777
Chicago_24h_100yr	21:40	1.769
Chicago_24h_100yr	21:45	1.761

Chicago_24h_100yr	21:50	1.753
Chicago_24h_100yr	21:55	1.745
Chicago_24h_100yr	22:00	1.738
Chicago_24h_100yr	22:05	1.73
Chicago_24h_100yr	22:10	1.723
Chicago_24h_100yr	22:15	1.715
Chicago_24h_100yr	22:20	1.708
Chicago_24h_100yr	22:25	1.701
Chicago_24h_100yr	22:30	1.693
Chicago_24h_100yr	22:35	1.686
Chicago_24h_100yr	22:40	1.679
Chicago_24h_100yr	22:45	1.672
Chicago_24h_100yr	22:50	1.665
Chicago_24h_100yr	22:55	1.659
Chicago_24h_100yr	23:00	1.652
Chicago_24h_100yr	23:05	1.645
Chicago_24h_100yr	23:10	1.638
Chicago_24h_100yr	23:15	1.632
Chicago_24h_100yr	23:20	1.625
Chicago_24h_100yr	23:25	1.619
Chicago_24h_100yr	23:30	1.613
Chicago_24h_100yr	23:35	1.606
Chicago_24h_100yr	23:40	1.6
Chicago_24h_100yr	23:45	1.594
Chicago_24h_100yr	23:50	1.588
Chicago_24h_100yr	23:55	1.581
Chicago_24h_100yr	24:00	0

;Chicago design storm, a = 2150, b = 5.7, c = 0.861, Duration = 1440 minutes, r = 0.33, rain units = mm/hr.

Chicago_24h_Oakville	0:00	0.588
Chicago_24h_Oakville	0:10	0.599
Chicago_24h_Oakville	0:20	0.611
Chicago_24h_Oakville	0:30	0.623
Chicago_24h_Oakville	0:40	0.636
Chicago_24h_Oakville	0:50	0.649
Chicago_24h_Oakville	1:00	0.663
Chicago_24h_Oakville	1:10	0.678
Chicago_24h_Oakville	1:20	0.693
Chicago_24h_Oakville	1:30	0.709
Chicago_24h_Oakville	1:40	0.726
Chicago_24h_Oakville	1:50	0.744
Chicago_24h_Oakville	2:00	0.763
Chicago_24h_Oakville	2:10	0.783
Chicago_24h_Oakville	2:20	0.804
Chicago_24h_Oakville	2:30	0.826
Chicago_24h_Oakville	2:40	0.85

Chicago_24h_Oakville	2:50	0.875
Chicago_24h_Oakville	3:00	0.902
Chicago_24h_Oakville	3:10	0.931
Chicago_24h_Oakville	3:20	0.961
Chicago_24h_Oakville	3:30	0.994
Chicago_24h_Oakville	3:40	1.03
Chicago_24h_Oakville	3:50	1.068
Chicago_24h_Oakville	4:00	1.11
Chicago_24h_Oakville	4:10	1.156
Chicago_24h_Oakville	4:20	1.205
Chicago_24h_Oakville	4:30	1.26
Chicago_24h_Oakville	4:40	1.32
Chicago_24h_Oakville	4:50	1.386
Chicago_24h_Oakville	5:00	1.46
Chicago_24h_Oakville	5:10	1.544
Chicago_24h_Oakville	5:20	1.638
Chicago_24h_Oakville	5:30	1.746
Chicago_24h_Oakville	5:40	1.87
Chicago_24h_Oakville	5:50	2.014
Chicago_24h_Oakville	6:00	2.185
Chicago_24h_Oakville	6:10	2.39
Chicago_24h_Oakville	6:20	2.642
Chicago_24h_Oakville	6:30	2.958
Chicago_24h_Oakville	6:40	3.366
Chicago_24h_Oakville	6:50	3.916
Chicago_24h_Oakville	7:00	4.699
Chicago_24h_Oakville	7:10	5.905
Chicago_24h_Oakville	7:20	8.002
Chicago_24h_Oakville	7:30	12.553
Chicago_24h_Oakville	7:40	29.487
Chicago_24h_Oakville	7:50	200.802
Chicago_24h_Oakville	8:00	60.756
Chicago_24h_Oakville	8:10	28.591
Chicago_24h_Oakville	8:20	17.692
Chicago_24h_Oakville	8:30	12.732
Chicago_24h_Oakville	8:40	9.936
Chicago_24h_Oakville	8:50	8.152
Chicago_24h_Oakville	9:00	6.92
Chicago_24h_Oakville	9:10	6.018
Chicago_24h_Oakville	9:20	5.33
Chicago_24h_Oakville	9:30	4.787
Chicago_24h_Oakville	9:40	4.349
Chicago_24h_Oakville	9:50	3.988
Chicago_24h_Oakville	10:00	3.684
Chicago_24h_Oakville	10:10	3.426
Chicago_24h_Oakville	10:20	3.203

Chicago_24h_Oakville	10:30	3.009
Chicago_24h_Oakville	10:40	2.838
Chicago_24h_Oakville	10:50	2.687
Chicago_24h_Oakville	11:00	2.552
Chicago_24h_Oakville	11:10	2.43
Chicago_24h_Oakville	11:20	2.32
Chicago_24h_Oakville	11:30	2.221
Chicago_24h_Oakville	11:40	2.13
Chicago_24h_Oakville	11:50	2.047
Chicago_24h_Oakville	12:00	1.97
Chicago_24h_Oakville	12:10	1.899
Chicago_24h_Oakville	12:20	1.834
Chicago_24h_Oakville	12:30	1.773
Chicago_24h_Oakville	12:40	1.716
Chicago_24h_Oakville	12:50	1.664
Chicago_24h_Oakville	13:00	1.614
Chicago_24h_Oakville	13:10	1.568
Chicago_24h_Oakville	13:20	1.524
Chicago_24h_Oakville	13:30	1.483
Chicago_24h_Oakville	13:40	1.444
Chicago_24h_Oakville	13:50	1.407
Chicago_24h_Oakville	14:00	1.373
Chicago_24h_Oakville	14:10	1.34
Chicago_24h_Oakville	14:20	1.308
Chicago_24h_Oakville	14:30	1.279
Chicago_24h_Oakville	14:40	1.25
Chicago_24h_Oakville	14:50	1.223
Chicago_24h_Oakville	15:00	1.197
Chicago_24h_Oakville	15:10	1.173
Chicago_24h_Oakville	15:20	1.149
Chicago_24h_Oakville	15:30	1.127
Chicago_24h_Oakville	15:40	1.105
Chicago_24h_Oakville	15:50	1.084
Chicago_24h_Oakville	16:00	1.064
Chicago_24h_Oakville	16:10	1.045
Chicago_24h_Oakville	16:20	1.027
Chicago_24h_Oakville	16:30	1.009
Chicago_24h_Oakville	16:40	0.992
Chicago_24h_Oakville	16:50	0.975
Chicago_24h_Oakville	17:00	0.959
Chicago_24h_Oakville	17:10	0.944
Chicago_24h_Oakville	17:20	0.929
Chicago_24h_Oakville	17:30	0.915
Chicago_24h_Oakville	17:40	0.901
Chicago_24h_Oakville	17:50	0.888
Chicago_24h_Oakville	18:00	0.874

Chicago_24h_Oakville	18:10	0.862
Chicago_24h_Oakville	18:20	0.85
Chicago_24h_Oakville	18:30	0.838
Chicago_24h_Oakville	18:40	0.826
Chicago_24h_Oakville	18:50	0.815
Chicago_24h_Oakville	19:00	0.804
Chicago_24h_Oakville	19:10	0.794
Chicago_24h_Oakville	19:20	0.784
Chicago_24h_Oakville	19:30	0.774
Chicago_24h_Oakville	19:40	0.764
Chicago_24h_Oakville	19:50	0.754
Chicago_24h_Oakville	20:00	0.745
Chicago_24h_Oakville	20:10	0.736
Chicago_24h_Oakville	20:20	0.728
Chicago_24h_Oakville	20:30	0.719
Chicago_24h_Oakville	20:40	0.711
Chicago_24h_Oakville	20:50	0.703
Chicago_24h_Oakville	21:00	0.695
Chicago_24h_Oakville	21:10	0.687
Chicago_24h_Oakville	21:20	0.68
Chicago_24h_Oakville	21:30	0.672
Chicago_24h_Oakville	21:40	0.665
Chicago_24h_Oakville	21:50	0.658
Chicago_24h_Oakville	22:00	0.651
Chicago_24h_Oakville	22:10	0.645
Chicago_24h_Oakville	22:20	0.638
Chicago_24h_Oakville	22:30	0.632
Chicago_24h_Oakville	22:40	0.625
Chicago_24h_Oakville	22:50	0.619
Chicago_24h_Oakville	23:00	0.613
Chicago_24h_Oakville	23:10	0.607
Chicago_24h_Oakville	23:20	0.602
Chicago_24h_Oakville	23:30	0.596
Chicago_24h_Oakville	23:40	0.59
Chicago_24h_Oakville	23:50	0.585
Chicago_24h_Oakville	24:00	0

;SCS_Type_II_74.39mm design storm, total rainfall = 74.39 mm, rain units = mm/hr.

COB_SCSII24hr10yr	0:00	0.818
COB_SCSII24hr10yr	0:15	0.818
COB_SCSII24hr10yr	0:30	0.818
COB_SCSII24hr10yr	0:45	0.818
COB_SCSII24hr10yr	1:00	0.818
COB_SCSII24hr10yr	1:15	0.818
COB_SCSII24hr10yr	1:30	0.818
COB_SCSII24hr10yr	1:45	0.818

COB_SCSII24hr10yr	2:00	0.967
COB_SCSII24hr10yr	2:15	0.967
COB_SCSII24hr10yr	2:30	0.967
COB_SCSII24hr10yr	2:45	0.967
COB_SCSII24hr10yr	3:00	0.967
COB_SCSII24hr10yr	3:15	0.967
COB_SCSII24hr10yr	3:30	0.967
COB_SCSII24hr10yr	3:45	0.967
COB_SCSII24hr10yr	4:00	1.19
COB_SCSII24hr10yr	4:15	1.19
COB_SCSII24hr10yr	4:30	1.19
COB_SCSII24hr10yr	4:45	1.19
COB_SCSII24hr10yr	5:00	1.19
COB_SCSII24hr10yr	5:15	1.19
COB_SCSII24hr10yr	5:30	1.19
COB_SCSII24hr10yr	5:45	1.19
COB_SCSII24hr10yr	6:00	1.339
COB_SCSII24hr10yr	6:15	1.339
COB_SCSII24hr10yr	6:30	1.339
COB_SCSII24hr10yr	6:45	1.339
COB_SCSII24hr10yr	7:00	1.637
COB_SCSII24hr10yr	7:15	1.637
COB_SCSII24hr10yr	7:30	1.637
COB_SCSII24hr10yr	7:45	1.637
COB_SCSII24hr10yr	8:00	1.934
COB_SCSII24hr10yr	8:15	1.934
COB_SCSII24hr10yr	8:30	2.083
COB_SCSII24hr10yr	8:45	2.083
COB_SCSII24hr10yr	9:00	2.38
COB_SCSII24hr10yr	9:15	2.38
COB_SCSII24hr10yr	9:30	2.678
COB_SCSII24hr10yr	9:45	2.678
COB_SCSII24hr10yr	10:00	3.422
COB_SCSII24hr10yr	10:15	3.422
COB_SCSII24hr10yr	10:30	4.612
COB_SCSII24hr10yr	10:45	4.612
COB_SCSII24hr10yr	11:00	7.141
COB_SCSII24hr10yr	11:15	7.141
COB_SCSII24hr10yr	11:30	22.019
COB_SCSII24hr10yr	11:45	91.053
COB_SCSII24hr10yr	12:00	10.712
COB_SCSII24hr10yr	12:15	10.712
COB_SCSII24hr10yr	12:30	5.505
COB_SCSII24hr10yr	12:45	5.505
COB_SCSII24hr10yr	13:00	4.017
COB_SCSII24hr10yr	13:15	4.017

COB_SCSII24hr10yr	13:30	3.124
COB_SCSII24hr10yr	13:45	3.124
COB_SCSII24hr10yr	14:00	2.232
COB_SCSII24hr10yr	14:15	2.232
COB_SCSII24hr10yr	14:30	2.232
COB_SCSII24hr10yr	14:45	2.232
COB_SCSII24hr10yr	15:00	2.232
COB_SCSII24hr10yr	15:15	2.232
COB_SCSII24hr10yr	15:30	2.232
COB_SCSII24hr10yr	15:45	2.232
COB_SCSII24hr10yr	16:00	1.339
COB_SCSII24hr10yr	16:15	1.339
COB_SCSII24hr10yr	16:30	1.339
COB_SCSII24hr10yr	16:45	1.339
COB_SCSII24hr10yr	17:00	1.339
COB_SCSII24hr10yr	17:15	1.339
COB_SCSII24hr10yr	17:30	1.339
COB_SCSII24hr10yr	17:45	1.339
COB_SCSII24hr10yr	18:00	1.339
COB_SCSII24hr10yr	18:15	1.339
COB_SCSII24hr10yr	18:30	1.339
COB_SCSII24hr10yr	18:45	1.339
COB_SCSII24hr10yr	19:00	1.339
COB_SCSII24hr10yr	19:15	1.339
COB_SCSII24hr10yr	19:30	1.339
COB_SCSII24hr10yr	19:45	1.339
COB_SCSII24hr10yr	20:00	0.893
COB_SCSII24hr10yr	20:15	0.893
COB_SCSII24hr10yr	20:30	0.893
COB_SCSII24hr10yr	20:45	0.893
COB_SCSII24hr10yr	21:00	0.893
COB_SCSII24hr10yr	21:15	0.893
COB_SCSII24hr10yr	21:30	0.893
COB_SCSII24hr10yr	21:45	0.893
COB_SCSII24hr10yr	22:00	0.893
COB_SCSII24hr10yr	22:15	0.893
COB_SCSII24hr10yr	22:30	0.893
COB_SCSII24hr10yr	22:45	0.893
COB_SCSII24hr10yr	23:00	0.893
COB_SCSII24hr10yr	23:15	0.893
COB_SCSII24hr10yr	23:30	0.893
COB_SCSII24hr10yr	23:45	0.893

;SCS_Type_II_86.98mm design storm, total rainfall = 86.98 mm, rain units = mm/hr.

COB_SCSII24hr25yr	0:00	0.957
COB_SCSII24hr25yr	0:15	0.957

COB_SCSII24hr25yr	0:30	0.957
COB_SCSII24hr25yr	0:45	0.957
COB_SCSII24hr25yr	1:00	0.957
COB_SCSII24hr25yr	1:15	0.957
COB_SCSII24hr25yr	1:30	0.957
COB_SCSII24hr25yr	1:45	0.957
COB_SCSII24hr25yr	2:00	1.131
COB_SCSII24hr25yr	2:15	1.131
COB_SCSII24hr25yr	2:30	1.131
COB_SCSII24hr25yr	2:45	1.131
COB_SCSII24hr25yr	3:00	1.131
COB_SCSII24hr25yr	3:15	1.131
COB_SCSII24hr25yr	3:30	1.131
COB_SCSII24hr25yr	3:45	1.131
COB_SCSII24hr25yr	4:00	1.392
COB_SCSII24hr25yr	4:15	1.392
COB_SCSII24hr25yr	4:30	1.392
COB_SCSII24hr25yr	4:45	1.392
COB_SCSII24hr25yr	5:00	1.392
COB_SCSII24hr25yr	5:15	1.392
COB_SCSII24hr25yr	5:30	1.392
COB_SCSII24hr25yr	5:45	1.392
COB_SCSII24hr25yr	6:00	1.566
COB_SCSII24hr25yr	6:15	1.566
COB_SCSII24hr25yr	6:30	1.566
COB_SCSII24hr25yr	6:45	1.566
COB_SCSII24hr25yr	7:00	1.914
COB_SCSII24hr25yr	7:15	1.914
COB_SCSII24hr25yr	7:30	1.914
COB_SCSII24hr25yr	7:45	1.914
COB_SCSII24hr25yr	8:00	2.261
COB_SCSII24hr25yr	8:15	2.261
COB_SCSII24hr25yr	8:30	2.435
COB_SCSII24hr25yr	8:45	2.435
COB_SCSII24hr25yr	9:00	2.783
COB_SCSII24hr25yr	9:15	2.783
COB_SCSII24hr25yr	9:30	3.131
COB_SCSII24hr25yr	9:45	3.131
COB_SCSII24hr25yr	10:00	4.001
COB_SCSII24hr25yr	10:15	4.001
COB_SCSII24hr25yr	10:30	5.393
COB_SCSII24hr25yr	10:45	5.393
COB_SCSII24hr25yr	11:00	8.35
COB_SCSII24hr25yr	11:15	8.35
COB_SCSII24hr25yr	11:30	25.746
COB_SCSII24hr25yr	11:45	106.464

COB_SCSII24hr25yr	12:00	12.525
COB_SCSII24hr25yr	12:15	12.525
COB_SCSII24hr25yr	12:30	6.437
COB_SCSII24hr25yr	12:45	6.437
COB_SCSII24hr25yr	13:00	4.697
COB_SCSII24hr25yr	13:15	4.697
COB_SCSII24hr25yr	13:30	3.653
COB_SCSII24hr25yr	13:45	3.653
COB_SCSII24hr25yr	14:00	2.609
COB_SCSII24hr25yr	14:15	2.609
COB_SCSII24hr25yr	14:30	2.609
COB_SCSII24hr25yr	14:45	2.609
COB_SCSII24hr25yr	15:00	2.609
COB_SCSII24hr25yr	15:15	2.609
COB_SCSII24hr25yr	15:30	2.609
COB_SCSII24hr25yr	15:45	2.609
COB_SCSII24hr25yr	16:00	1.566
COB_SCSII24hr25yr	16:15	1.566
COB_SCSII24hr25yr	16:30	1.566
COB_SCSII24hr25yr	16:45	1.566
COB_SCSII24hr25yr	17:00	1.566
COB_SCSII24hr25yr	17:15	1.566
COB_SCSII24hr25yr	17:30	1.566
COB_SCSII24hr25yr	17:45	1.566
COB_SCSII24hr25yr	18:00	1.566
COB_SCSII24hr25yr	18:15	1.566
COB_SCSII24hr25yr	18:30	1.566
COB_SCSII24hr25yr	18:45	1.566
COB_SCSII24hr25yr	19:00	1.566
COB_SCSII24hr25yr	19:15	1.566
COB_SCSII24hr25yr	19:30	1.566
COB_SCSII24hr25yr	19:45	1.566
COB_SCSII24hr25yr	20:00	1.044
COB_SCSII24hr25yr	20:15	1.044
COB_SCSII24hr25yr	20:30	1.044
COB_SCSII24hr25yr	20:45	1.044
COB_SCSII24hr25yr	21:00	1.044
COB_SCSII24hr25yr	21:15	1.044
COB_SCSII24hr25yr	21:30	1.044
COB_SCSII24hr25yr	21:45	1.044
COB_SCSII24hr25yr	22:00	1.044
COB_SCSII24hr25yr	22:15	1.044
COB_SCSII24hr25yr	22:30	1.044
COB_SCSII24hr25yr	22:45	1.044
COB_SCSII24hr25yr	23:00	1.044
COB_SCSII24hr25yr	23:15	1.044

COB_SCSII24hr25yr	23:30	1.044
COB_SCSII24hr25yr	23:45	1.044

;SCS_Type_II_48.76mm design storm, total rainfall = 48.76 mm, rain units = mm/hr.

COB_SCSII24hr2yr	0:00	0.536
COB_SCSII24hr2yr	0:15	0.536
COB_SCSII24hr2yr	0:30	0.536
COB_SCSII24hr2yr	0:45	0.536
COB_SCSII24hr2yr	1:00	0.536
COB_SCSII24hr2yr	1:15	0.536
COB_SCSII24hr2yr	1:30	0.536
COB_SCSII24hr2yr	1:45	0.536
COB_SCSII24hr2yr	2:00	0.634
COB_SCSII24hr2yr	2:15	0.634
COB_SCSII24hr2yr	2:30	0.634
COB_SCSII24hr2yr	2:45	0.634
COB_SCSII24hr2yr	3:00	0.634
COB_SCSII24hr2yr	3:15	0.634
COB_SCSII24hr2yr	3:30	0.634
COB_SCSII24hr2yr	3:45	0.634
COB_SCSII24hr2yr	4:00	0.78
COB_SCSII24hr2yr	4:15	0.78
COB_SCSII24hr2yr	4:30	0.78
COB_SCSII24hr2yr	4:45	0.78
COB_SCSII24hr2yr	5:00	0.78
COB_SCSII24hr2yr	5:15	0.78
COB_SCSII24hr2yr	5:30	0.78
COB_SCSII24hr2yr	5:45	0.78
COB_SCSII24hr2yr	6:00	0.878
COB_SCSII24hr2yr	6:15	0.878
COB_SCSII24hr2yr	6:30	0.878
COB_SCSII24hr2yr	6:45	0.878
COB_SCSII24hr2yr	7:00	1.073
COB_SCSII24hr2yr	7:15	1.073
COB_SCSII24hr2yr	7:30	1.073
COB_SCSII24hr2yr	7:45	1.073
COB_SCSII24hr2yr	8:00	1.268
COB_SCSII24hr2yr	8:15	1.268
COB_SCSII24hr2yr	8:30	1.365
COB_SCSII24hr2yr	8:45	1.365
COB_SCSII24hr2yr	9:00	1.56
COB_SCSII24hr2yr	9:15	1.56
COB_SCSII24hr2yr	9:30	1.755
COB_SCSII24hr2yr	9:45	1.755
COB_SCSII24hr2yr	10:00	2.243
COB_SCSII24hr2yr	10:15	2.243

COB_SCSII24hr2yr	10:30	3.023
COB_SCSII24hr2yr	10:45	3.023
COB_SCSII24hr2yr	11:00	4.681
COB_SCSII24hr2yr	11:15	4.681
COB_SCSII24hr2yr	11:30	14.433
COB_SCSII24hr2yr	11:45	59.682
COB_SCSII24hr2yr	12:00	7.021
COB_SCSII24hr2yr	12:15	7.021
COB_SCSII24hr2yr	12:30	3.608
COB_SCSII24hr2yr	12:45	3.608
COB_SCSII24hr2yr	13:00	2.633
COB_SCSII24hr2yr	13:15	2.633
COB_SCSII24hr2yr	13:30	2.048
COB_SCSII24hr2yr	13:45	2.048
COB_SCSII24hr2yr	14:00	1.463
COB_SCSII24hr2yr	14:15	1.463
COB_SCSII24hr2yr	14:30	1.463
COB_SCSII24hr2yr	14:45	1.463
COB_SCSII24hr2yr	15:00	1.463
COB_SCSII24hr2yr	15:15	1.463
COB_SCSII24hr2yr	15:30	1.463
COB_SCSII24hr2yr	15:45	1.463
COB_SCSII24hr2yr	16:00	0.878
COB_SCSII24hr2yr	16:15	0.878
COB_SCSII24hr2yr	16:30	0.878
COB_SCSII24hr2yr	16:45	0.878
COB_SCSII24hr2yr	17:00	0.878
COB_SCSII24hr2yr	17:15	0.878
COB_SCSII24hr2yr	17:30	0.878
COB_SCSII24hr2yr	17:45	0.878
COB_SCSII24hr2yr	18:00	0.878
COB_SCSII24hr2yr	18:15	0.878
COB_SCSII24hr2yr	18:30	0.878
COB_SCSII24hr2yr	18:45	0.878
COB_SCSII24hr2yr	19:00	0.878
COB_SCSII24hr2yr	19:15	0.878
COB_SCSII24hr2yr	19:30	0.878
COB_SCSII24hr2yr	19:45	0.878
COB_SCSII24hr2yr	20:00	0.585
COB_SCSII24hr2yr	20:15	0.585
COB_SCSII24hr2yr	20:30	0.585
COB_SCSII24hr2yr	20:45	0.585
COB_SCSII24hr2yr	21:00	0.585
COB_SCSII24hr2yr	21:15	0.585
COB_SCSII24hr2yr	21:30	0.585
COB_SCSII24hr2yr	21:45	0.585

COB_SCSII24hr2yr	22:00	0.585
COB_SCSII24hr2yr	22:15	0.585
COB_SCSII24hr2yr	22:30	0.585
COB_SCSII24hr2yr	22:45	0.585
COB_SCSII24hr2yr	23:00	0.585
COB_SCSII24hr2yr	23:15	0.585
COB_SCSII24hr2yr	23:30	0.585
COB_SCSII24hr2yr	23:45	0.585

;SCS_Type_II_96.36mm design storm, total rainfall = 96.36 mm, rain units = mm/hr.

COB_SCSII24hr50yr	0:00	1.06
COB_SCSII24hr50yr	0:15	1.06
COB_SCSII24hr50yr	0:30	1.06
COB_SCSII24hr50yr	0:45	1.06
COB_SCSII24hr50yr	1:00	1.06
COB_SCSII24hr50yr	1:15	1.06
COB_SCSII24hr50yr	1:30	1.06
COB_SCSII24hr50yr	1:45	1.06
COB_SCSII24hr50yr	2:00	1.253
COB_SCSII24hr50yr	2:15	1.253
COB_SCSII24hr50yr	2:30	1.253
COB_SCSII24hr50yr	2:45	1.253
COB_SCSII24hr50yr	3:00	1.253
COB_SCSII24hr50yr	3:15	1.253
COB_SCSII24hr50yr	3:30	1.253
COB_SCSII24hr50yr	3:45	1.253
COB_SCSII24hr50yr	4:00	1.542
COB_SCSII24hr50yr	4:15	1.542
COB_SCSII24hr50yr	4:30	1.542
COB_SCSII24hr50yr	4:45	1.542
COB_SCSII24hr50yr	5:00	1.542
COB_SCSII24hr50yr	5:15	1.542
COB_SCSII24hr50yr	5:30	1.542
COB_SCSII24hr50yr	5:45	1.542
COB_SCSII24hr50yr	6:00	1.734
COB_SCSII24hr50yr	6:15	1.734
COB_SCSII24hr50yr	6:30	1.734
COB_SCSII24hr50yr	6:45	1.734
COB_SCSII24hr50yr	7:00	2.12
COB_SCSII24hr50yr	7:15	2.12
COB_SCSII24hr50yr	7:30	2.12
COB_SCSII24hr50yr	7:45	2.12
COB_SCSII24hr50yr	8:00	2.505
COB_SCSII24hr50yr	8:15	2.505
COB_SCSII24hr50yr	8:30	2.698
COB_SCSII24hr50yr	8:45	2.698

COB_SCSII24hr50yr	9:00	3.084
COB_SCSII24hr50yr	9:15	3.084
COB_SCSII24hr50yr	9:30	3.469
COB_SCSII24hr50yr	9:45	3.469
COB_SCSII24hr50yr	10:00	4.433
COB_SCSII24hr50yr	10:15	4.433
COB_SCSII24hr50yr	10:30	5.974
COB_SCSII24hr50yr	10:45	5.974
COB_SCSII24hr50yr	11:00	9.251
COB_SCSII24hr50yr	11:15	9.251
COB_SCSII24hr50yr	11:30	28.523
COB_SCSII24hr50yr	11:45	117.945
COB_SCSII24hr50yr	12:00	13.876
COB_SCSII24hr50yr	12:15	13.876
COB_SCSII24hr50yr	12:30	7.131
COB_SCSII24hr50yr	12:45	7.131
COB_SCSII24hr50yr	13:00	5.203
COB_SCSII24hr50yr	13:15	5.203
COB_SCSII24hr50yr	13:30	4.047
COB_SCSII24hr50yr	13:45	4.047
COB_SCSII24hr50yr	14:00	2.891
COB_SCSII24hr50yr	14:15	2.891
COB_SCSII24hr50yr	14:30	2.891
COB_SCSII24hr50yr	14:45	2.891
COB_SCSII24hr50yr	15:00	2.891
COB_SCSII24hr50yr	15:15	2.891
COB_SCSII24hr50yr	15:30	2.891
COB_SCSII24hr50yr	15:45	2.891
COB_SCSII24hr50yr	16:00	1.734
COB_SCSII24hr50yr	16:15	1.734
COB_SCSII24hr50yr	16:30	1.734
COB_SCSII24hr50yr	16:45	1.734
COB_SCSII24hr50yr	17:00	1.734
COB_SCSII24hr50yr	17:15	1.734
COB_SCSII24hr50yr	17:30	1.734
COB_SCSII24hr50yr	17:45	1.734
COB_SCSII24hr50yr	18:00	1.734
COB_SCSII24hr50yr	18:15	1.734
COB_SCSII24hr50yr	18:30	1.734
COB_SCSII24hr50yr	18:45	1.734
COB_SCSII24hr50yr	19:00	1.734
COB_SCSII24hr50yr	19:15	1.734
COB_SCSII24hr50yr	19:30	1.734
COB_SCSII24hr50yr	19:45	1.734
COB_SCSII24hr50yr	20:00	1.156
COB_SCSII24hr50yr	20:15	1.156

COB_SCSII24hr50yr	20:30	1.156
COB_SCSII24hr50yr	20:45	1.156
COB_SCSII24hr50yr	21:00	1.156
COB_SCSII24hr50yr	21:15	1.156
COB_SCSII24hr50yr	21:30	1.156
COB_SCSII24hr50yr	21:45	1.156
COB_SCSII24hr50yr	22:00	1.156
COB_SCSII24hr50yr	22:15	1.156
COB_SCSII24hr50yr	22:30	1.156
COB_SCSII24hr50yr	22:45	1.156
COB_SCSII24hr50yr	23:00	1.156
COB_SCSII24hr50yr	23:15	1.156
COB_SCSII24hr50yr	23:30	1.156
COB_SCSII24hr50yr	23:45	1.156

;SCS_Type_II_64.5mm design storm, total rainfall = 64.5 mm, rain units = mm/hr.

COB_SCSII24hr5yr	0:00	0.71
COB_SCSII24hr5yr	0:15	0.71
COB_SCSII24hr5yr	0:30	0.71
COB_SCSII24hr5yr	0:45	0.71
COB_SCSII24hr5yr	1:00	0.71
COB_SCSII24hr5yr	1:15	0.71
COB_SCSII24hr5yr	1:30	0.71
COB_SCSII24hr5yr	1:45	0.71
COB_SCSII24hr5yr	2:00	0.838
COB_SCSII24hr5yr	2:15	0.838
COB_SCSII24hr5yr	2:30	0.838
COB_SCSII24hr5yr	2:45	0.838
COB_SCSII24hr5yr	3:00	0.838
COB_SCSII24hr5yr	3:15	0.838
COB_SCSII24hr5yr	3:30	0.838
COB_SCSII24hr5yr	3:45	0.838
COB_SCSII24hr5yr	4:00	1.032
COB_SCSII24hr5yr	4:15	1.032
COB_SCSII24hr5yr	4:30	1.032
COB_SCSII24hr5yr	4:45	1.032
COB_SCSII24hr5yr	5:00	1.032
COB_SCSII24hr5yr	5:15	1.032
COB_SCSII24hr5yr	5:30	1.032
COB_SCSII24hr5yr	5:45	1.032
COB_SCSII24hr5yr	6:00	1.161
COB_SCSII24hr5yr	6:15	1.161
COB_SCSII24hr5yr	6:30	1.161
COB_SCSII24hr5yr	6:45	1.161
COB_SCSII24hr5yr	7:00	1.419
COB_SCSII24hr5yr	7:15	1.419

COB_SCSII24hr5yr	7:30	1.419
COB_SCSII24hr5yr	7:45	1.419
COB_SCSII24hr5yr	8:00	1.677
COB_SCSII24hr5yr	8:15	1.677
COB_SCSII24hr5yr	8:30	1.806
COB_SCSII24hr5yr	8:45	1.806
COB_SCSII24hr5yr	9:00	2.064
COB_SCSII24hr5yr	9:15	2.064
COB_SCSII24hr5yr	9:30	2.322
COB_SCSII24hr5yr	9:45	2.322
COB_SCSII24hr5yr	10:00	2.967
COB_SCSII24hr5yr	10:15	2.967
COB_SCSII24hr5yr	10:30	3.999
COB_SCSII24hr5yr	10:45	3.999
COB_SCSII24hr5yr	11:00	6.192
COB_SCSII24hr5yr	11:15	6.192
COB_SCSII24hr5yr	11:30	19.092
COB_SCSII24hr5yr	11:45	78.948
COB_SCSII24hr5yr	12:00	9.288
COB_SCSII24hr5yr	12:15	9.288
COB_SCSII24hr5yr	12:30	4.773
COB_SCSII24hr5yr	12:45	4.773
COB_SCSII24hr5yr	13:00	3.483
COB_SCSII24hr5yr	13:15	3.483
COB_SCSII24hr5yr	13:30	2.709
COB_SCSII24hr5yr	13:45	2.709
COB_SCSII24hr5yr	14:00	1.935
COB_SCSII24hr5yr	14:15	1.935
COB_SCSII24hr5yr	14:30	1.935
COB_SCSII24hr5yr	14:45	1.935
COB_SCSII24hr5yr	15:00	1.935
COB_SCSII24hr5yr	15:15	1.935
COB_SCSII24hr5yr	15:30	1.935
COB_SCSII24hr5yr	15:45	1.935
COB_SCSII24hr5yr	16:00	1.161
COB_SCSII24hr5yr	16:15	1.161
COB_SCSII24hr5yr	16:30	1.161
COB_SCSII24hr5yr	16:45	1.161
COB_SCSII24hr5yr	17:00	1.161
COB_SCSII24hr5yr	17:15	1.161
COB_SCSII24hr5yr	17:30	1.161
COB_SCSII24hr5yr	17:45	1.161
COB_SCSII24hr5yr	18:00	1.161
COB_SCSII24hr5yr	18:15	1.161
COB_SCSII24hr5yr	18:30	1.161
COB_SCSII24hr5yr	18:45	1.161

COB_SCSII24hr5yr	19:00	1.161
COB_SCSII24hr5yr	19:15	1.161
COB_SCSII24hr5yr	19:30	1.161
COB_SCSII24hr5yr	19:45	1.161
COB_SCSII24hr5yr	20:00	0.774
COB_SCSII24hr5yr	20:15	0.774
COB_SCSII24hr5yr	20:30	0.774
COB_SCSII24hr5yr	20:45	0.774
COB_SCSII24hr5yr	21:00	0.774
COB_SCSII24hr5yr	21:15	0.774
COB_SCSII24hr5yr	21:30	0.774
COB_SCSII24hr5yr	21:45	0.774
COB_SCSII24hr5yr	22:00	0.774
COB_SCSII24hr5yr	22:15	0.774
COB_SCSII24hr5yr	22:30	0.774
COB_SCSII24hr5yr	22:45	0.774
COB_SCSII24hr5yr	23:00	0.774
COB_SCSII24hr5yr	23:15	0.774
COB_SCSII24hr5yr	23:30	0.774
COB_SCSII24hr5yr	23:45	0.774

;SCS_Type_II_102.2mm design storm, total rainfall = 102.2 mm, rain units = mm/hr.

COM_SCSIII2hr100yr	0:00	1.124
COM_SCSIII2hr100yr	0:15	1.124
COM_SCSIII2hr100yr	0:30	1.124
COM_SCSIII2hr100yr	0:45	1.124
COM_SCSIII2hr100yr	1:00	1.124
COM_SCSIII2hr100yr	1:15	1.124
COM_SCSIII2hr100yr	1:30	1.124
COM_SCSIII2hr100yr	1:45	1.124
COM_SCSIII2hr100yr	2:00	1.329
COM_SCSIII2hr100yr	2:15	1.329
COM_SCSIII2hr100yr	2:30	1.329
COM_SCSIII2hr100yr	2:45	1.329
COM_SCSIII2hr100yr	3:00	1.329
COM_SCSIII2hr100yr	3:15	1.329
COM_SCSIII2hr100yr	3:30	1.329
COM_SCSIII2hr100yr	3:45	1.329
COM_SCSIII2hr100yr	4:00	1.635
COM_SCSIII2hr100yr	4:15	1.635
COM_SCSIII2hr100yr	4:30	1.635
COM_SCSIII2hr100yr	4:45	1.635
COM_SCSIII2hr100yr	5:00	1.635
COM_SCSIII2hr100yr	5:15	1.635
COM_SCSIII2hr100yr	5:30	1.635
COM_SCSIII2hr100yr	5:45	1.635

COM_SCSIII2hr100yr	6:00	1.84
COM_SCSIII2hr100yr	6:15	1.84
COM_SCSIII2hr100yr	6:30	1.84
COM_SCSIII2hr100yr	6:45	1.84
COM_SCSIII2hr100yr	7:00	2.248
COM_SCSIII2hr100yr	7:15	2.248
COM_SCSIII2hr100yr	7:30	2.248
COM_SCSIII2hr100yr	7:45	2.248
COM_SCSIII2hr100yr	8:00	2.657
COM_SCSIII2hr100yr	8:15	2.657
COM_SCSIII2hr100yr	8:30	2.862
COM_SCSIII2hr100yr	8:45	2.862
COM_SCSIII2hr100yr	9:00	3.27
COM_SCSIII2hr100yr	9:15	3.27
COM_SCSIII2hr100yr	9:30	3.679
COM_SCSIII2hr100yr	9:45	3.679
COM_SCSIII2hr100yr	10:00	4.701
COM_SCSIII2hr100yr	10:15	4.701
COM_SCSIII2hr100yr	10:30	6.336
COM_SCSIII2hr100yr	10:45	6.336
COM_SCSIII2hr100yr	11:00	9.811
COM_SCSIII2hr100yr	11:15	9.811
COM_SCSIII2hr100yr	11:30	30.251
COM_SCSIII2hr100yr	11:45	125.093
COM_SCSIII2hr100yr	12:00	14.717
COM_SCSIII2hr100yr	12:15	14.717
COM_SCSIII2hr100yr	12:30	7.563
COM_SCSIII2hr100yr	12:45	7.563
COM_SCSIII2hr100yr	13:00	5.519
COM_SCSIII2hr100yr	13:15	5.519
COM_SCSIII2hr100yr	13:30	4.292
COM_SCSIII2hr100yr	13:45	4.292
COM_SCSIII2hr100yr	14:00	3.066
COM_SCSIII2hr100yr	14:15	3.066
COM_SCSIII2hr100yr	14:30	3.066
COM_SCSIII2hr100yr	14:45	3.066
COM_SCSIII2hr100yr	15:00	3.066
COM_SCSIII2hr100yr	15:15	3.066
COM_SCSIII2hr100yr	15:30	3.066
COM_SCSIII2hr100yr	15:45	3.066
COM_SCSIII2hr100yr	16:00	1.84
COM_SCSIII2hr100yr	16:15	1.84
COM_SCSIII2hr100yr	16:30	1.84
COM_SCSIII2hr100yr	16:45	1.84
COM_SCSIII2hr100yr	17:00	1.84
COM_SCSIII2hr100yr	17:15	1.84

COM_SCSIII2hr100yr	17:30	1.84
COM_SCSIII2hr100yr	17:45	1.84
COM_SCSIII2hr100yr	18:00	1.84
COM_SCSIII2hr100yr	18:15	1.84
COM_SCSIII2hr100yr	18:30	1.84
COM_SCSIII2hr100yr	18:45	1.84
COM_SCSIII2hr100yr	19:00	1.84
COM_SCSIII2hr100yr	19:15	1.84
COM_SCSIII2hr100yr	19:30	1.84
COM_SCSIII2hr100yr	19:45	1.84
COM_SCSIII2hr100yr	20:00	1.226
COM_SCSIII2hr100yr	20:15	1.226
COM_SCSIII2hr100yr	20:30	1.226
COM_SCSIII2hr100yr	20:45	1.226
COM_SCSIII2hr100yr	21:00	1.226
COM_SCSIII2hr100yr	21:15	1.226
COM_SCSIII2hr100yr	21:30	1.226
COM_SCSIII2hr100yr	21:45	1.226
COM_SCSIII2hr100yr	22:00	1.226
COM_SCSIII2hr100yr	22:15	1.226
COM_SCSIII2hr100yr	22:30	1.226
COM_SCSIII2hr100yr	22:45	1.226
COM_SCSIII2hr100yr	23:00	1.226
COM_SCSIII2hr100yr	23:15	1.226
COM_SCSIII2hr100yr	23:30	1.226
COM_SCSIII2hr100yr	23:45	1.226

;SCS_Type_II_71.22mm design storm, total rainfall = 71.22 mm, rain units = mm/hr.

COM_SCSIII2hr10yr	0:00	0.783
COM_SCSIII2hr10yr	0:15	0.783
COM_SCSIII2hr10yr	0:30	0.783
COM_SCSIII2hr10yr	0:45	0.783
COM_SCSIII2hr10yr	1:00	0.783
COM_SCSIII2hr10yr	1:15	0.783
COM_SCSIII2hr10yr	1:30	0.783
COM_SCSIII2hr10yr	1:45	0.783
COM_SCSIII2hr10yr	2:00	0.926
COM_SCSIII2hr10yr	2:15	0.926
COM_SCSIII2hr10yr	2:30	0.926
COM_SCSIII2hr10yr	2:45	0.926
COM_SCSIII2hr10yr	3:00	0.926
COM_SCSIII2hr10yr	3:15	0.926
COM_SCSIII2hr10yr	3:30	0.926
COM_SCSIII2hr10yr	3:45	0.926
COM_SCSIII2hr10yr	4:00	1.14
COM_SCSIII2hr10yr	4:15	1.14

COM_SCSIII2hr10yr	4:30	1.14
COM_SCSIII2hr10yr	4:45	1.14
COM_SCSIII2hr10yr	5:00	1.14
COM_SCSIII2hr10yr	5:15	1.14
COM_SCSIII2hr10yr	5:30	1.14
COM_SCSIII2hr10yr	5:45	1.14
COM_SCSIII2hr10yr	6:00	1.282
COM_SCSIII2hr10yr	6:15	1.282
COM_SCSIII2hr10yr	6:30	1.282
COM_SCSIII2hr10yr	6:45	1.282
COM_SCSIII2hr10yr	7:00	1.567
COM_SCSIII2hr10yr	7:15	1.567
COM_SCSIII2hr10yr	7:30	1.567
COM_SCSIII2hr10yr	7:45	1.567
COM_SCSIII2hr10yr	8:00	1.852
COM_SCSIII2hr10yr	8:15	1.852
COM_SCSIII2hr10yr	8:30	1.994
COM_SCSIII2hr10yr	8:45	1.994
COM_SCSIII2hr10yr	9:00	2.279
COM_SCSIII2hr10yr	9:15	2.279
COM_SCSIII2hr10yr	9:30	2.564
COM_SCSIII2hr10yr	9:45	2.564
COM_SCSIII2hr10yr	10:00	3.276
COM_SCSIII2hr10yr	10:15	3.276
COM_SCSIII2hr10yr	10:30	4.416
COM_SCSIII2hr10yr	10:45	4.416
COM_SCSIII2hr10yr	11:00	6.837
COM_SCSIII2hr10yr	11:15	6.837
COM_SCSIII2hr10yr	11:30	21.081
COM_SCSIII2hr10yr	11:45	87.173
COM_SCSIII2hr10yr	12:00	10.256
COM_SCSIII2hr10yr	12:15	10.256
COM_SCSIII2hr10yr	12:30	5.27
COM_SCSIII2hr10yr	12:45	5.27
COM_SCSIII2hr10yr	13:00	3.846
COM_SCSIII2hr10yr	13:15	3.846
COM_SCSIII2hr10yr	13:30	2.991
COM_SCSIII2hr10yr	13:45	2.991
COM_SCSIII2hr10yr	14:00	2.137
COM_SCSIII2hr10yr	14:15	2.137
COM_SCSIII2hr10yr	14:30	2.137
COM_SCSIII2hr10yr	14:45	2.137
COM_SCSIII2hr10yr	15:00	2.137
COM_SCSIII2hr10yr	15:15	2.137
COM_SCSIII2hr10yr	15:30	2.137
COM_SCSIII2hr10yr	15:45	2.137

COM_SCSIII2hr10yr	16:00	1.282
COM_SCSIII2hr10yr	16:15	1.282
COM_SCSIII2hr10yr	16:30	1.282
COM_SCSIII2hr10yr	16:45	1.282
COM_SCSIII2hr10yr	17:00	1.282
COM_SCSIII2hr10yr	17:15	1.282
COM_SCSIII2hr10yr	17:30	1.282
COM_SCSIII2hr10yr	17:45	1.282
COM_SCSIII2hr10yr	18:00	1.282
COM_SCSIII2hr10yr	18:15	1.282
COM_SCSIII2hr10yr	18:30	1.282
COM_SCSIII2hr10yr	18:45	1.282
COM_SCSIII2hr10yr	19:00	1.282
COM_SCSIII2hr10yr	19:15	1.282
COM_SCSIII2hr10yr	19:30	1.282
COM_SCSIII2hr10yr	19:45	1.282
COM_SCSIII2hr10yr	20:00	0.855
COM_SCSIII2hr10yr	20:15	0.855
COM_SCSIII2hr10yr	20:30	0.855
COM_SCSIII2hr10yr	20:45	0.855
COM_SCSIII2hr10yr	21:00	0.855
COM_SCSIII2hr10yr	21:15	0.855
COM_SCSIII2hr10yr	21:30	0.855
COM_SCSIII2hr10yr	21:45	0.855
COM_SCSIII2hr10yr	22:00	0.855
COM_SCSIII2hr10yr	22:15	0.855
COM_SCSIII2hr10yr	22:30	0.855
COM_SCSIII2hr10yr	22:45	0.855
COM_SCSIII2hr10yr	23:00	0.855
COM_SCSIII2hr10yr	23:15	0.855
COM_SCSIII2hr10yr	23:30	0.855
COM_SCSIII2hr10yr	23:45	0.855

;SCS_Type_II_81.8mm design storm, total rainfall = 81.8 mm, rain units = mm/hr.

COM_SCSIII2hr25yr	0:00	0.9
COM_SCSIII2hr25yr	0:15	0.9
COM_SCSIII2hr25yr	0:30	0.9
COM_SCSIII2hr25yr	0:45	0.9
COM_SCSIII2hr25yr	1:00	0.9
COM_SCSIII2hr25yr	1:15	0.9
COM_SCSIII2hr25yr	1:30	0.9
COM_SCSIII2hr25yr	1:45	0.9
COM_SCSIII2hr25yr	2:00	1.063
COM_SCSIII2hr25yr	2:15	1.063
COM_SCSIII2hr25yr	2:30	1.063
COM_SCSIII2hr25yr	2:45	1.063

COM_SCSIII2hr25yr	3:00	1.063
COM_SCSIII2hr25yr	3:15	1.063
COM_SCSIII2hr25yr	3:30	1.063
COM_SCSIII2hr25yr	3:45	1.063
COM_SCSIII2hr25yr	4:00	1.309
COM_SCSIII2hr25yr	4:15	1.309
COM_SCSIII2hr25yr	4:30	1.309
COM_SCSIII2hr25yr	4:45	1.309
COM_SCSIII2hr25yr	5:00	1.309
COM_SCSIII2hr25yr	5:15	1.309
COM_SCSIII2hr25yr	5:30	1.309
COM_SCSIII2hr25yr	5:45	1.309
COM_SCSIII2hr25yr	6:00	1.472
COM_SCSIII2hr25yr	6:15	1.472
COM_SCSIII2hr25yr	6:30	1.472
COM_SCSIII2hr25yr	6:45	1.472
COM_SCSIII2hr25yr	7:00	1.8
COM_SCSIII2hr25yr	7:15	1.8
COM_SCSIII2hr25yr	7:30	1.8
COM_SCSIII2hr25yr	7:45	1.8
COM_SCSIII2hr25yr	8:00	2.127
COM_SCSIII2hr25yr	8:15	2.127
COM_SCSIII2hr25yr	8:30	2.29
COM_SCSIII2hr25yr	8:45	2.29
COM_SCSIII2hr25yr	9:00	2.618
COM_SCSIII2hr25yr	9:15	2.618
COM_SCSIII2hr25yr	9:30	2.945
COM_SCSIII2hr25yr	9:45	2.945
COM_SCSIII2hr25yr	10:00	3.763
COM_SCSIII2hr25yr	10:15	3.763
COM_SCSIII2hr25yr	10:30	5.072
COM_SCSIII2hr25yr	10:45	5.072
COM_SCSIII2hr25yr	11:00	7.853
COM_SCSIII2hr25yr	11:15	7.853
COM_SCSIII2hr25yr	11:30	24.213
COM_SCSIII2hr25yr	11:45	100.123
COM_SCSIII2hr25yr	12:00	11.779
COM_SCSIII2hr25yr	12:15	11.779
COM_SCSIII2hr25yr	12:30	6.053
COM_SCSIII2hr25yr	12:45	6.053
COM_SCSIII2hr25yr	13:00	4.417
COM_SCSIII2hr25yr	13:15	4.417
COM_SCSIII2hr25yr	13:30	3.436
COM_SCSIII2hr25yr	13:45	3.436
COM_SCSIII2hr25yr	14:00	2.454
COM_SCSIII2hr25yr	14:15	2.454

COM_SCSIII2hr25yr	14:30	2.454
COM_SCSIII2hr25yr	14:45	2.454
COM_SCSIII2hr25yr	15:00	2.454
COM_SCSIII2hr25yr	15:15	2.454
COM_SCSIII2hr25yr	15:30	2.454
COM_SCSIII2hr25yr	15:45	2.454
COM_SCSIII2hr25yr	16:00	1.472
COM_SCSIII2hr25yr	16:15	1.472
COM_SCSIII2hr25yr	16:30	1.472
COM_SCSIII2hr25yr	16:45	1.472
COM_SCSIII2hr25yr	17:00	1.472
COM_SCSIII2hr25yr	17:15	1.472
COM_SCSIII2hr25yr	17:30	1.472
COM_SCSIII2hr25yr	17:45	1.472
COM_SCSIII2hr25yr	18:00	1.472
COM_SCSIII2hr25yr	18:15	1.472
COM_SCSIII2hr25yr	18:30	1.472
COM_SCSIII2hr25yr	18:45	1.472
COM_SCSIII2hr25yr	19:00	1.472
COM_SCSIII2hr25yr	19:15	1.472
COM_SCSIII2hr25yr	19:30	1.472
COM_SCSIII2hr25yr	19:45	1.472
COM_SCSIII2hr25yr	20:00	0.982
COM_SCSIII2hr25yr	20:15	0.982
COM_SCSIII2hr25yr	20:30	0.982
COM_SCSIII2hr25yr	20:45	0.982
COM_SCSIII2hr25yr	21:00	0.982
COM_SCSIII2hr25yr	21:15	0.982
COM_SCSIII2hr25yr	21:30	0.982
COM_SCSIII2hr25yr	21:45	0.982
COM_SCSIII2hr25yr	22:00	0.982
COM_SCSIII2hr25yr	22:15	0.982
COM_SCSIII2hr25yr	22:30	0.982
COM_SCSIII2hr25yr	22:45	0.982
COM_SCSIII2hr25yr	23:00	0.982
COM_SCSIII2hr25yr	23:15	0.982
COM_SCSIII2hr25yr	23:30	0.982
COM_SCSIII2hr25yr	23:45	0.982

;SCS_Type_II_43mm design storm, total rainfall = 43 mm, rain units = mm/hr.

COM_SCSIII2hr2yr	0:00	0.473
COM_SCSIII2hr2yr	0:15	0.473
COM_SCSIII2hr2yr	0:30	0.473
COM_SCSIII2hr2yr	0:45	0.473
COM_SCSIII2hr2yr	1:00	0.473
COM_SCSIII2hr2yr	1:15	0.473

COM_SCSIII2hr2yr	1:30	0.473
COM_SCSIII2hr2yr	1:45	0.473
COM_SCSIII2hr2yr	2:00	0.559
COM_SCSIII2hr2yr	2:15	0.559
COM_SCSIII2hr2yr	2:30	0.559
COM_SCSIII2hr2yr	2:45	0.559
COM_SCSIII2hr2yr	3:00	0.559
COM_SCSIII2hr2yr	3:15	0.559
COM_SCSIII2hr2yr	3:30	0.559
COM_SCSIII2hr2yr	3:45	0.559
COM_SCSIII2hr2yr	4:00	0.688
COM_SCSIII2hr2yr	4:15	0.688
COM_SCSIII2hr2yr	4:30	0.688
COM_SCSIII2hr2yr	4:45	0.688
COM_SCSIII2hr2yr	5:00	0.688
COM_SCSIII2hr2yr	5:15	0.688
COM_SCSIII2hr2yr	5:30	0.688
COM_SCSIII2hr2yr	5:45	0.688
COM_SCSIII2hr2yr	6:00	0.774
COM_SCSIII2hr2yr	6:15	0.774
COM_SCSIII2hr2yr	6:30	0.774
COM_SCSIII2hr2yr	6:45	0.774
COM_SCSIII2hr2yr	7:00	0.946
COM_SCSIII2hr2yr	7:15	0.946
COM_SCSIII2hr2yr	7:30	0.946
COM_SCSIII2hr2yr	7:45	0.946
COM_SCSIII2hr2yr	8:00	1.118
COM_SCSIII2hr2yr	8:15	1.118
COM_SCSIII2hr2yr	8:30	1.204
COM_SCSIII2hr2yr	8:45	1.204
COM_SCSIII2hr2yr	9:00	1.376
COM_SCSIII2hr2yr	9:15	1.376
COM_SCSIII2hr2yr	9:30	1.548
COM_SCSIII2hr2yr	9:45	1.548
COM_SCSIII2hr2yr	10:00	1.978
COM_SCSIII2hr2yr	10:15	1.978
COM_SCSIII2hr2yr	10:30	2.666
COM_SCSIII2hr2yr	10:45	2.666
COM_SCSIII2hr2yr	11:00	4.128
COM_SCSIII2hr2yr	11:15	4.128
COM_SCSIII2hr2yr	11:30	12.728
COM_SCSIII2hr2yr	11:45	52.632
COM_SCSIII2hr2yr	12:00	6.192
COM_SCSIII2hr2yr	12:15	6.192
COM_SCSIII2hr2yr	12:30	3.182
COM_SCSIII2hr2yr	12:45	3.182

COM_SCSIII2hr2yr	13:00	2.322
COM_SCSIII2hr2yr	13:15	2.322
COM_SCSIII2hr2yr	13:30	1.806
COM_SCSIII2hr2yr	13:45	1.806
COM_SCSIII2hr2yr	14:00	1.29
COM_SCSIII2hr2yr	14:15	1.29
COM_SCSIII2hr2yr	14:30	1.29
COM_SCSIII2hr2yr	14:45	1.29
COM_SCSIII2hr2yr	15:00	1.29
COM_SCSIII2hr2yr	15:15	1.29
COM_SCSIII2hr2yr	15:30	1.29
COM_SCSIII2hr2yr	15:45	1.29
COM_SCSIII2hr2yr	16:00	0.774
COM_SCSIII2hr2yr	16:15	0.774
COM_SCSIII2hr2yr	16:30	0.774
COM_SCSIII2hr2yr	16:45	0.774
COM_SCSIII2hr2yr	17:00	0.774
COM_SCSIII2hr2yr	17:15	0.774
COM_SCSIII2hr2yr	17:30	0.774
COM_SCSIII2hr2yr	17:45	0.774
COM_SCSIII2hr2yr	18:00	0.774
COM_SCSIII2hr2yr	18:15	0.774
COM_SCSIII2hr2yr	18:30	0.774
COM_SCSIII2hr2yr	18:45	0.774
COM_SCSIII2hr2yr	19:00	0.774
COM_SCSIII2hr2yr	19:15	0.774
COM_SCSIII2hr2yr	19:30	0.774
COM_SCSIII2hr2yr	19:45	0.774
COM_SCSIII2hr2yr	20:00	0.516
COM_SCSIII2hr2yr	20:15	0.516
COM_SCSIII2hr2yr	20:30	0.516
COM_SCSIII2hr2yr	20:45	0.516
COM_SCSIII2hr2yr	21:00	0.516
COM_SCSIII2hr2yr	21:15	0.516
COM_SCSIII2hr2yr	21:30	0.516
COM_SCSIII2hr2yr	21:45	0.516
COM_SCSIII2hr2yr	22:00	0.516
COM_SCSIII2hr2yr	22:15	0.516
COM_SCSIII2hr2yr	22:30	0.516
COM_SCSIII2hr2yr	22:45	0.516
COM_SCSIII2hr2yr	23:00	0.516
COM_SCSIII2hr2yr	23:15	0.516
COM_SCSIII2hr2yr	23:30	0.516
COM_SCSIII2hr2yr	23:45	0.516

;SCS_Type_II_91.66mm design storm, total rainfall = 91.66 mm, rain units = mm/hr.

COM_SCSIII2hr50yr	0:00	1.008
COM_SCSIII2hr50yr	0:15	1.008
COM_SCSIII2hr50yr	0:30	1.008
COM_SCSIII2hr50yr	0:45	1.008
COM_SCSIII2hr50yr	1:00	1.008
COM_SCSIII2hr50yr	1:15	1.008
COM_SCSIII2hr50yr	1:30	1.008
COM_SCSIII2hr50yr	1:45	1.008
COM_SCSIII2hr50yr	2:00	1.192
COM_SCSIII2hr50yr	2:15	1.192
COM_SCSIII2hr50yr	2:30	1.192
COM_SCSIII2hr50yr	2:45	1.192
COM_SCSIII2hr50yr	3:00	1.192
COM_SCSIII2hr50yr	3:15	1.192
COM_SCSIII2hr50yr	3:30	1.192
COM_SCSIII2hr50yr	3:45	1.192
COM_SCSIII2hr50yr	4:00	1.467
COM_SCSIII2hr50yr	4:15	1.467
COM_SCSIII2hr50yr	4:30	1.467
COM_SCSIII2hr50yr	4:45	1.467
COM_SCSIII2hr50yr	5:00	1.467
COM_SCSIII2hr50yr	5:15	1.467
COM_SCSIII2hr50yr	5:30	1.467
COM_SCSIII2hr50yr	5:45	1.467
COM_SCSIII2hr50yr	6:00	1.65
COM_SCSIII2hr50yr	6:15	1.65
COM_SCSIII2hr50yr	6:30	1.65
COM_SCSIII2hr50yr	6:45	1.65
COM_SCSIII2hr50yr	7:00	2.017
COM_SCSIII2hr50yr	7:15	2.017
COM_SCSIII2hr50yr	7:30	2.017
COM_SCSIII2hr50yr	7:45	2.017
COM_SCSIII2hr50yr	8:00	2.383
COM_SCSIII2hr50yr	8:15	2.383
COM_SCSIII2hr50yr	8:30	2.566
COM_SCSIII2hr50yr	8:45	2.566
COM_SCSIII2hr50yr	9:00	2.933
COM_SCSIII2hr50yr	9:15	2.933
COM_SCSIII2hr50yr	9:30	3.3
COM_SCSIII2hr50yr	9:45	3.3
COM_SCSIII2hr50yr	10:00	4.216
COM_SCSIII2hr50yr	10:15	4.216
COM_SCSIII2hr50yr	10:30	5.683
COM_SCSIII2hr50yr	10:45	5.683
COM_SCSIII2hr50yr	11:00	8.799
COM_SCSIII2hr50yr	11:15	8.799

COM_SCSIII2hr50yr	11:30	27.131
COM_SCSIII2hr50yr	11:45	112.192
COM_SCSIII2hr50yr	12:00	13.199
COM_SCSIII2hr50yr	12:15	13.199
COM_SCSIII2hr50yr	12:30	6.783
COM_SCSIII2hr50yr	12:45	6.783
COM_SCSIII2hr50yr	13:00	4.95
COM_SCSIII2hr50yr	13:15	4.95
COM_SCSIII2hr50yr	13:30	3.85
COM_SCSIII2hr50yr	13:45	3.85
COM_SCSIII2hr50yr	14:00	2.75
COM_SCSIII2hr50yr	14:15	2.75
COM_SCSIII2hr50yr	14:30	2.75
COM_SCSIII2hr50yr	14:45	2.75
COM_SCSIII2hr50yr	15:00	2.75
COM_SCSIII2hr50yr	15:15	2.75
COM_SCSIII2hr50yr	15:30	2.75
COM_SCSIII2hr50yr	15:45	2.75
COM_SCSIII2hr50yr	16:00	1.65
COM_SCSIII2hr50yr	16:15	1.65
COM_SCSIII2hr50yr	16:30	1.65
COM_SCSIII2hr50yr	16:45	1.65
COM_SCSIII2hr50yr	17:00	1.65
COM_SCSIII2hr50yr	17:15	1.65
COM_SCSIII2hr50yr	17:30	1.65
COM_SCSIII2hr50yr	17:45	1.65
COM_SCSIII2hr50yr	18:00	1.65
COM_SCSIII2hr50yr	18:15	1.65
COM_SCSIII2hr50yr	18:30	1.65
COM_SCSIII2hr50yr	18:45	1.65
COM_SCSIII2hr50yr	19:00	1.65
COM_SCSIII2hr50yr	19:15	1.65
COM_SCSIII2hr50yr	19:30	1.65
COM_SCSIII2hr50yr	19:45	1.65
COM_SCSIII2hr50yr	20:00	1.1
COM_SCSIII2hr50yr	20:15	1.1
COM_SCSIII2hr50yr	20:30	1.1
COM_SCSIII2hr50yr	20:45	1.1
COM_SCSIII2hr50yr	21:00	1.1
COM_SCSIII2hr50yr	21:15	1.1
COM_SCSIII2hr50yr	21:30	1.1
COM_SCSIII2hr50yr	21:45	1.1
COM_SCSIII2hr50yr	22:00	1.1
COM_SCSIII2hr50yr	22:15	1.1
COM_SCSIII2hr50yr	22:30	1.1
COM_SCSIII2hr50yr	22:45	1.1

COM_SCSIII2hr50yr	23:00	1.1
COM_SCSIII2hr50yr	23:15	1.1
COM_SCSIII2hr50yr	23:30	1.1
COM_SCSIII2hr50yr	23:45	1.1

;SCS_Type_II_57.8mm design storm, total rainfall = 57.8 mm, rain units = mm/hr.

COM_SCSIII2hr5yr	0:00	0.636
COM_SCSIII2hr5yr	0:15	0.636
COM_SCSIII2hr5yr	0:30	0.636
COM_SCSIII2hr5yr	0:45	0.636
COM_SCSIII2hr5yr	1:00	0.636
COM_SCSIII2hr5yr	1:15	0.636
COM_SCSIII2hr5yr	1:30	0.636
COM_SCSIII2hr5yr	1:45	0.636
COM_SCSIII2hr5yr	2:00	0.751
COM_SCSIII2hr5yr	2:15	0.751
COM_SCSIII2hr5yr	2:30	0.751
COM_SCSIII2hr5yr	2:45	0.751
COM_SCSIII2hr5yr	3:00	0.751
COM_SCSIII2hr5yr	3:15	0.751
COM_SCSIII2hr5yr	3:30	0.751
COM_SCSIII2hr5yr	3:45	0.751
COM_SCSIII2hr5yr	4:00	0.925
COM_SCSIII2hr5yr	4:15	0.925
COM_SCSIII2hr5yr	4:30	0.925
COM_SCSIII2hr5yr	4:45	0.925
COM_SCSIII2hr5yr	5:00	0.925
COM_SCSIII2hr5yr	5:15	0.925
COM_SCSIII2hr5yr	5:30	0.925
COM_SCSIII2hr5yr	5:45	0.925
COM_SCSIII2hr5yr	6:00	1.04
COM_SCSIII2hr5yr	6:15	1.04
COM_SCSIII2hr5yr	6:30	1.04
COM_SCSIII2hr5yr	6:45	1.04
COM_SCSIII2hr5yr	7:00	1.272
COM_SCSIII2hr5yr	7:15	1.272
COM_SCSIII2hr5yr	7:30	1.272
COM_SCSIII2hr5yr	7:45	1.272
COM_SCSIII2hr5yr	8:00	1.503
COM_SCSIII2hr5yr	8:15	1.503
COM_SCSIII2hr5yr	8:30	1.618
COM_SCSIII2hr5yr	8:45	1.618
COM_SCSIII2hr5yr	9:00	1.85
COM_SCSIII2hr5yr	9:15	1.85
COM_SCSIII2hr5yr	9:30	2.081
COM_SCSIII2hr5yr	9:45	2.081

COM_SCSIII2hr5yr	10:00	2.659
COM_SCSIII2hr5yr	10:15	2.659
COM_SCSIII2hr5yr	10:30	3.584
COM_SCSIII2hr5yr	10:45	3.584
COM_SCSIII2hr5yr	11:00	5.549
COM_SCSIII2hr5yr	11:15	5.549
COM_SCSIII2hr5yr	11:30	17.109
COM_SCSIII2hr5yr	11:45	70.747
COM_SCSIII2hr5yr	12:00	8.323
COM_SCSIII2hr5yr	12:15	8.323
COM_SCSIII2hr5yr	12:30	4.277
COM_SCSIII2hr5yr	12:45	4.277
COM_SCSIII2hr5yr	13:00	3.121
COM_SCSIII2hr5yr	13:15	3.121
COM_SCSIII2hr5yr	13:30	2.428
COM_SCSIII2hr5yr	13:45	2.428
COM_SCSIII2hr5yr	14:00	1.734
COM_SCSIII2hr5yr	14:15	1.734
COM_SCSIII2hr5yr	14:30	1.734
COM_SCSIII2hr5yr	14:45	1.734
COM_SCSIII2hr5yr	15:00	1.734
COM_SCSIII2hr5yr	15:15	1.734
COM_SCSIII2hr5yr	15:30	1.734
COM_SCSIII2hr5yr	15:45	1.734
COM_SCSIII2hr5yr	16:00	1.04
COM_SCSIII2hr5yr	16:15	1.04
COM_SCSIII2hr5yr	16:30	1.04
COM_SCSIII2hr5yr	16:45	1.04
COM_SCSIII2hr5yr	17:00	1.04
COM_SCSIII2hr5yr	17:15	1.04
COM_SCSIII2hr5yr	17:30	1.04
COM_SCSIII2hr5yr	17:45	1.04
COM_SCSIII2hr5yr	18:00	1.04
COM_SCSIII2hr5yr	18:15	1.04
COM_SCSIII2hr5yr	18:30	1.04
COM_SCSIII2hr5yr	18:45	1.04
COM_SCSIII2hr5yr	19:00	1.04
COM_SCSIII2hr5yr	19:15	1.04
COM_SCSIII2hr5yr	19:30	1.04
COM_SCSIII2hr5yr	19:45	1.04
COM_SCSIII2hr5yr	20:00	0.694
COM_SCSIII2hr5yr	20:15	0.694
COM_SCSIII2hr5yr	20:30	0.694
COM_SCSIII2hr5yr	20:45	0.694
COM_SCSIII2hr5yr	21:00	0.694
COM_SCSIII2hr5yr	21:15	0.694

COM_SCSIII2hr5yr	21:30	0.694
COM_SCSIII2hr5yr	21:45	0.694
COM_SCSIII2hr5yr	22:00	0.694
COM_SCSIII2hr5yr	22:15	0.694
COM_SCSIII2hr5yr	22:30	0.694
COM_SCSIII2hr5yr	22:45	0.694
COM_SCSIII2hr5yr	23:00	0.694
COM_SCSIII2hr5yr	23:15	0.694
COM_SCSIII2hr5yr	23:30	0.694
COM_SCSIII2hr5yr	23:45	0.694

;SCS_Type_II_122.64mm design storm, total rainfall = 122.64 mm, rain units = mm/hr.

COM_SCSIII2hrCC	0:00	1.349
COM_SCSIII2hrCC	0:15	1.349
COM_SCSIII2hrCC	0:30	1.349
COM_SCSIII2hrCC	0:45	1.349
COM_SCSIII2hrCC	1:00	1.349
COM_SCSIII2hrCC	1:15	1.349
COM_SCSIII2hrCC	1:30	1.349
COM_SCSIII2hrCC	1:45	1.349
COM_SCSIII2hrCC	2:00	1.594
COM_SCSIII2hrCC	2:15	1.594
COM_SCSIII2hrCC	2:30	1.594
COM_SCSIII2hrCC	2:45	1.594
COM_SCSIII2hrCC	3:00	1.594
COM_SCSIII2hrCC	3:15	1.594
COM_SCSIII2hrCC	3:30	1.594
COM_SCSIII2hrCC	3:45	1.594
COM_SCSIII2hrCC	4:00	1.962
COM_SCSIII2hrCC	4:15	1.962
COM_SCSIII2hrCC	4:30	1.962
COM_SCSIII2hrCC	4:45	1.962
COM_SCSIII2hrCC	5:00	1.962
COM_SCSIII2hrCC	5:15	1.962
COM_SCSIII2hrCC	5:30	1.962
COM_SCSIII2hrCC	5:45	1.962
COM_SCSIII2hrCC	6:00	2.208
COM_SCSIII2hrCC	6:15	2.208
COM_SCSIII2hrCC	6:30	2.208
COM_SCSIII2hrCC	6:45	2.208
COM_SCSIII2hrCC	7:00	2.698
COM_SCSIII2hrCC	7:15	2.698
COM_SCSIII2hrCC	7:30	2.698
COM_SCSIII2hrCC	7:45	2.698
COM_SCSIII2hrCC	8:00	3.189
COM_SCSIII2hrCC	8:15	3.189

COM_SCSIII2hrCC	8:30	3.434
COM_SCSIII2hrCC	8:45	3.434
COM_SCSIII2hrCC	9:00	3.924
COM_SCSIII2hrCC	9:15	3.924
COM_SCSIII2hrCC	9:30	4.415
COM_SCSIII2hrCC	9:45	4.415
COM_SCSIII2hrCC	10:00	5.641
COM_SCSIII2hrCC	10:15	5.641
COM_SCSIII2hrCC	10:30	7.604
COM_SCSIII2hrCC	10:45	7.604
COM_SCSIII2hrCC	11:00	11.773
COM_SCSIII2hrCC	11:15	11.773
COM_SCSIII2hrCC	11:30	36.301
COM_SCSIII2hrCC	11:45	150.111
COM_SCSIII2hrCC	12:00	17.66
COM_SCSIII2hrCC	12:15	17.66
COM_SCSIII2hrCC	12:30	9.075
COM_SCSIII2hrCC	12:45	9.075
COM_SCSIII2hrCC	13:00	6.623
COM_SCSIII2hrCC	13:15	6.623
COM_SCSIII2hrCC	13:30	5.151
COM_SCSIII2hrCC	13:45	5.151
COM_SCSIII2hrCC	14:00	3.679
COM_SCSIII2hrCC	14:15	3.679
COM_SCSIII2hrCC	14:30	3.679
COM_SCSIII2hrCC	14:45	3.679
COM_SCSIII2hrCC	15:00	3.679
COM_SCSIII2hrCC	15:15	3.679
COM_SCSIII2hrCC	15:30	3.679
COM_SCSIII2hrCC	15:45	3.679
COM_SCSIII2hrCC	16:00	2.208
COM_SCSIII2hrCC	16:15	2.208
COM_SCSIII2hrCC	16:30	2.208
COM_SCSIII2hrCC	16:45	2.208
COM_SCSIII2hrCC	17:00	2.208
COM_SCSIII2hrCC	17:15	2.208
COM_SCSIII2hrCC	17:30	2.208
COM_SCSIII2hrCC	17:45	2.208
COM_SCSIII2hrCC	18:00	2.208
COM_SCSIII2hrCC	18:15	2.208
COM_SCSIII2hrCC	18:30	2.208
COM_SCSIII2hrCC	18:45	2.208
COM_SCSIII2hrCC	19:00	2.208
COM_SCSIII2hrCC	19:15	2.208
COM_SCSIII2hrCC	19:30	2.208
COM_SCSIII2hrCC	19:45	2.208

COM_SCSIII2hrCC	20:00	1.472
COM_SCSIII2hrCC	20:15	1.472
COM_SCSIII2hrCC	20:30	1.472
COM_SCSIII2hrCC	20:45	1.472
COM_SCSIII2hrCC	21:00	1.472
COM_SCSIII2hrCC	21:15	1.472
COM_SCSIII2hrCC	21:30	1.472
COM_SCSIII2hrCC	21:45	1.472
COM_SCSIII2hrCC	22:00	1.472
COM_SCSIII2hrCC	22:15	1.472
COM_SCSIII2hrCC	22:30	1.472
COM_SCSIII2hrCC	22:45	1.472
COM_SCSIII2hrCC	23:00	1.472
COM_SCSIII2hrCC	23:15	1.472
COM_SCSIII2hrCC	23:30	1.472
COM_SCSIII2hrCC	23:45	1.472

;SCS_Type_II_105.32mm design storm, total rainfall = 105.32 mm, rain units = mm/hr.

SCS_Type_II_105.32mm	0:00	1.159
SCS_Type_II_105.32mm	0:15	1.159
SCS_Type_II_105.32mm	0:30	1.159
SCS_Type_II_105.32mm	0:45	1.159
SCS_Type_II_105.32mm	1:00	1.159
SCS_Type_II_105.32mm	1:15	1.159
SCS_Type_II_105.32mm	1:30	1.159
SCS_Type_II_105.32mm	1:45	1.159
SCS_Type_II_105.32mm	2:00	1.369
SCS_Type_II_105.32mm	2:15	1.369
SCS_Type_II_105.32mm	2:30	1.369
SCS_Type_II_105.32mm	2:45	1.369
SCS_Type_II_105.32mm	3:00	1.369
SCS_Type_II_105.32mm	3:15	1.369
SCS_Type_II_105.32mm	3:30	1.369
SCS_Type_II_105.32mm	3:45	1.369
SCS_Type_II_105.32mm	4:00	1.685
SCS_Type_II_105.32mm	4:15	1.685
SCS_Type_II_105.32mm	4:30	1.685
SCS_Type_II_105.32mm	4:45	1.685
SCS_Type_II_105.32mm	5:00	1.685
SCS_Type_II_105.32mm	5:15	1.685
SCS_Type_II_105.32mm	5:30	1.685
SCS_Type_II_105.32mm	5:45	1.685
SCS_Type_II_105.32mm	6:00	1.896
SCS_Type_II_105.32mm	6:15	1.896
SCS_Type_II_105.32mm	6:30	1.896
SCS_Type_II_105.32mm	6:45	1.896

SCS_Type_II_105.32mm	7:00	2.317
SCS_Type_II_105.32mm	7:15	2.317
SCS_Type_II_105.32mm	7:30	2.317
SCS_Type_II_105.32mm	7:45	2.317
SCS_Type_II_105.32mm	8:00	2.738
SCS_Type_II_105.32mm	8:15	2.738
SCS_Type_II_105.32mm	8:30	2.949
SCS_Type_II_105.32mm	8:45	2.949
SCS_Type_II_105.32mm	9:00	3.37
SCS_Type_II_105.32mm	9:15	3.37
SCS_Type_II_105.32mm	9:30	3.792
SCS_Type_II_105.32mm	9:45	3.792
SCS_Type_II_105.32mm	10:00	4.845
SCS_Type_II_105.32mm	10:15	4.845
SCS_Type_II_105.32mm	10:30	6.53
SCS_Type_II_105.32mm	10:45	6.53
SCS_Type_II_105.32mm	11:00	10.111
SCS_Type_II_105.32mm	11:15	10.111
SCS_Type_II_105.32mm	11:30	31.175
SCS_Type_II_105.32mm	11:45	128.912
SCS_Type_II_105.32mm	12:00	15.166
SCS_Type_II_105.32mm	12:15	15.166
SCS_Type_II_105.32mm	12:30	7.794
SCS_Type_II_105.32mm	12:45	7.794
SCS_Type_II_105.32mm	13:00	5.687
SCS_Type_II_105.32mm	13:15	5.687
SCS_Type_II_105.32mm	13:30	4.423
SCS_Type_II_105.32mm	13:45	4.423
SCS_Type_II_105.32mm	14:00	3.16
SCS_Type_II_105.32mm	14:15	3.16
SCS_Type_II_105.32mm	14:30	3.16
SCS_Type_II_105.32mm	14:45	3.16
SCS_Type_II_105.32mm	15:00	3.16
SCS_Type_II_105.32mm	15:15	3.16
SCS_Type_II_105.32mm	15:30	3.16
SCS_Type_II_105.32mm	15:45	3.16
SCS_Type_II_105.32mm	16:00	1.896
SCS_Type_II_105.32mm	16:15	1.896
SCS_Type_II_105.32mm	16:30	1.896
SCS_Type_II_105.32mm	16:45	1.896
SCS_Type_II_105.32mm	17:00	1.896
SCS_Type_II_105.32mm	17:15	1.896
SCS_Type_II_105.32mm	17:30	1.896
SCS_Type_II_105.32mm	17:45	1.896
SCS_Type_II_105.32mm	18:00	1.896
SCS_Type_II_105.32mm	18:15	1.896

SCS_Type_II_105.32mm	18:30	1.896
SCS_Type_II_105.32mm	18:45	1.896
SCS_Type_II_105.32mm	19:00	1.896
SCS_Type_II_105.32mm	19:15	1.896
SCS_Type_II_105.32mm	19:30	1.896
SCS_Type_II_105.32mm	19:45	1.896
SCS_Type_II_105.32mm	20:00	1.264
SCS_Type_II_105.32mm	20:15	1.264
SCS_Type_II_105.32mm	20:30	1.264
SCS_Type_II_105.32mm	20:45	1.264
SCS_Type_II_105.32mm	21:00	1.264
SCS_Type_II_105.32mm	21:15	1.264
SCS_Type_II_105.32mm	21:30	1.264
SCS_Type_II_105.32mm	21:45	1.264
SCS_Type_II_105.32mm	22:00	1.264
SCS_Type_II_105.32mm	22:15	1.264
SCS_Type_II_105.32mm	22:30	1.264
SCS_Type_II_105.32mm	22:45	1.264
SCS_Type_II_105.32mm	23:00	1.264
SCS_Type_II_105.32mm	23:15	1.264
SCS_Type_II_105.32mm	23:30	1.264
SCS_Type_II_105.32mm	23:45	1.264

;SCS_Type_II_115.2mm design storm, total rainfall = 115.2 mm, rain units = mm/hr.

SCS_Type_II_115.2mm	0:00	1.267
SCS_Type_II_115.2mm	0:15	1.267
SCS_Type_II_115.2mm	0:30	1.267
SCS_Type_II_115.2mm	0:45	1.267
SCS_Type_II_115.2mm	1:00	1.267
SCS_Type_II_115.2mm	1:15	1.267
SCS_Type_II_115.2mm	1:30	1.267
SCS_Type_II_115.2mm	1:45	1.267
SCS_Type_II_115.2mm	2:00	1.498
SCS_Type_II_115.2mm	2:15	1.498
SCS_Type_II_115.2mm	2:30	1.498
SCS_Type_II_115.2mm	2:45	1.498
SCS_Type_II_115.2mm	3:00	1.498
SCS_Type_II_115.2mm	3:15	1.498
SCS_Type_II_115.2mm	3:30	1.498
SCS_Type_II_115.2mm	3:45	1.498
SCS_Type_II_115.2mm	4:00	1.843
SCS_Type_II_115.2mm	4:15	1.843
SCS_Type_II_115.2mm	4:30	1.843
SCS_Type_II_115.2mm	4:45	1.843
SCS_Type_II_115.2mm	5:00	1.843
SCS_Type_II_115.2mm	5:15	1.843

SCS_Type_II_115.2mm	5:30	1.843
SCS_Type_II_115.2mm	5:45	1.843
SCS_Type_II_115.2mm	6:00	2.074
SCS_Type_II_115.2mm	6:15	2.074
SCS_Type_II_115.2mm	6:30	2.074
SCS_Type_II_115.2mm	6:45	2.074
SCS_Type_II_115.2mm	7:00	2.534
SCS_Type_II_115.2mm	7:15	2.534
SCS_Type_II_115.2mm	7:30	2.534
SCS_Type_II_115.2mm	7:45	2.534
SCS_Type_II_115.2mm	8:00	2.995
SCS_Type_II_115.2mm	8:15	2.995
SCS_Type_II_115.2mm	8:30	3.226
SCS_Type_II_115.2mm	8:45	3.226
SCS_Type_II_115.2mm	9:00	3.686
SCS_Type_II_115.2mm	9:15	3.686
SCS_Type_II_115.2mm	9:30	4.147
SCS_Type_II_115.2mm	9:45	4.147
SCS_Type_II_115.2mm	10:00	5.299
SCS_Type_II_115.2mm	10:15	5.299
SCS_Type_II_115.2mm	10:30	7.142
SCS_Type_II_115.2mm	10:45	7.142
SCS_Type_II_115.2mm	11:00	11.059
SCS_Type_II_115.2mm	11:15	11.059
SCS_Type_II_115.2mm	11:30	34.099
SCS_Type_II_115.2mm	11:45	141.005
SCS_Type_II_115.2mm	12:00	16.589
SCS_Type_II_115.2mm	12:15	16.589
SCS_Type_II_115.2mm	12:30	8.525
SCS_Type_II_115.2mm	12:45	8.525
SCS_Type_II_115.2mm	13:00	6.221
SCS_Type_II_115.2mm	13:15	6.221
SCS_Type_II_115.2mm	13:30	4.838
SCS_Type_II_115.2mm	13:45	4.838
SCS_Type_II_115.2mm	14:00	3.456
SCS_Type_II_115.2mm	14:15	3.456
SCS_Type_II_115.2mm	14:30	3.456
SCS_Type_II_115.2mm	14:45	3.456
SCS_Type_II_115.2mm	15:00	3.456
SCS_Type_II_115.2mm	15:15	3.456
SCS_Type_II_115.2mm	15:30	3.456
SCS_Type_II_115.2mm	15:45	3.456
SCS_Type_II_115.2mm	16:00	2.074
SCS_Type_II_115.2mm	16:15	2.074
SCS_Type_II_115.2mm	16:30	2.074
SCS_Type_II_115.2mm	16:45	2.074

SCS_Type_II_115.2mm	17:00	2.074
SCS_Type_II_115.2mm	17:15	2.074
SCS_Type_II_115.2mm	17:30	2.074
SCS_Type_II_115.2mm	17:45	2.074
SCS_Type_II_115.2mm	18:00	2.074
SCS_Type_II_115.2mm	18:15	2.074
SCS_Type_II_115.2mm	18:30	2.074
SCS_Type_II_115.2mm	18:45	2.074
SCS_Type_II_115.2mm	19:00	2.074
SCS_Type_II_115.2mm	19:15	2.074
SCS_Type_II_115.2mm	19:30	2.074
SCS_Type_II_115.2mm	19:45	2.074
SCS_Type_II_115.2mm	20:00	1.382
SCS_Type_II_115.2mm	20:15	1.382
SCS_Type_II_115.2mm	20:30	1.382
SCS_Type_II_115.2mm	20:45	1.382
SCS_Type_II_115.2mm	21:00	1.382
SCS_Type_II_115.2mm	21:15	1.382
SCS_Type_II_115.2mm	21:30	1.382
SCS_Type_II_115.2mm	21:45	1.382
SCS_Type_II_115.2mm	22:00	1.382
SCS_Type_II_115.2mm	22:15	1.382
SCS_Type_II_115.2mm	22:30	1.382
SCS_Type_II_115.2mm	22:45	1.382
SCS_Type_II_115.2mm	23:00	1.382
SCS_Type_II_115.2mm	23:15	1.382
SCS_Type_II_115.2mm	23:30	1.382
SCS_Type_II_115.2mm	23:45	1.382

;SCS_Type_II_124.8mm design storm, total rainfall = 124.8 mm, rain units = mm/hr.

SCS_Type_II_124.8mm	0:00	1.373
SCS_Type_II_124.8mm	0:15	1.373
SCS_Type_II_124.8mm	0:30	1.373
SCS_Type_II_124.8mm	0:45	1.373
SCS_Type_II_124.8mm	1:00	1.373
SCS_Type_II_124.8mm	1:15	1.373
SCS_Type_II_124.8mm	1:30	1.373
SCS_Type_II_124.8mm	1:45	1.373
SCS_Type_II_124.8mm	2:00	1.622
SCS_Type_II_124.8mm	2:15	1.622
SCS_Type_II_124.8mm	2:30	1.622
SCS_Type_II_124.8mm	2:45	1.622
SCS_Type_II_124.8mm	3:00	1.622
SCS_Type_II_124.8mm	3:15	1.622
SCS_Type_II_124.8mm	3:30	1.622
SCS_Type_II_124.8mm	3:45	1.622

SCS_Type_II_124.8mm	4:00	1.997
SCS_Type_II_124.8mm	4:15	1.997
SCS_Type_II_124.8mm	4:30	1.997
SCS_Type_II_124.8mm	4:45	1.997
SCS_Type_II_124.8mm	5:00	1.997
SCS_Type_II_124.8mm	5:15	1.997
SCS_Type_II_124.8mm	5:30	1.997
SCS_Type_II_124.8mm	5:45	1.997
SCS_Type_II_124.8mm	6:00	2.246
SCS_Type_II_124.8mm	6:15	2.246
SCS_Type_II_124.8mm	6:30	2.246
SCS_Type_II_124.8mm	6:45	2.246
SCS_Type_II_124.8mm	7:00	2.746
SCS_Type_II_124.8mm	7:15	2.746
SCS_Type_II_124.8mm	7:30	2.746
SCS_Type_II_124.8mm	7:45	2.746
SCS_Type_II_124.8mm	8:00	3.245
SCS_Type_II_124.8mm	8:15	3.245
SCS_Type_II_124.8mm	8:30	3.494
SCS_Type_II_124.8mm	8:45	3.494
SCS_Type_II_124.8mm	9:00	3.994
SCS_Type_II_124.8mm	9:15	3.994
SCS_Type_II_124.8mm	9:30	4.493
SCS_Type_II_124.8mm	9:45	4.493
SCS_Type_II_124.8mm	10:00	5.741
SCS_Type_II_124.8mm	10:15	5.741
SCS_Type_II_124.8mm	10:30	7.738
SCS_Type_II_124.8mm	10:45	7.738
SCS_Type_II_124.8mm	11:00	11.981
SCS_Type_II_124.8mm	11:15	11.981
SCS_Type_II_124.8mm	11:30	36.941
SCS_Type_II_124.8mm	11:45	152.755
SCS_Type_II_124.8mm	12:00	17.971
SCS_Type_II_124.8mm	12:15	17.971
SCS_Type_II_124.8mm	12:30	9.235
SCS_Type_II_124.8mm	12:45	9.235
SCS_Type_II_124.8mm	13:00	6.739
SCS_Type_II_124.8mm	13:15	6.739
SCS_Type_II_124.8mm	13:30	5.242
SCS_Type_II_124.8mm	13:45	5.242
SCS_Type_II_124.8mm	14:00	3.744
SCS_Type_II_124.8mm	14:15	3.744
SCS_Type_II_124.8mm	14:30	3.744
SCS_Type_II_124.8mm	14:45	3.744
SCS_Type_II_124.8mm	15:00	3.744
SCS_Type_II_124.8mm	15:15	3.744

SCS_Type_II_124.8mm	15:30	3.744
SCS_Type_II_124.8mm	15:45	3.744
SCS_Type_II_124.8mm	16:00	2.246
SCS_Type_II_124.8mm	16:15	2.246
SCS_Type_II_124.8mm	16:30	2.246
SCS_Type_II_124.8mm	16:45	2.246
SCS_Type_II_124.8mm	17:00	2.246
SCS_Type_II_124.8mm	17:15	2.246
SCS_Type_II_124.8mm	17:30	2.246
SCS_Type_II_124.8mm	17:45	2.246
SCS_Type_II_124.8mm	18:00	2.246
SCS_Type_II_124.8mm	18:15	2.246
SCS_Type_II_124.8mm	18:30	2.246
SCS_Type_II_124.8mm	18:45	2.246
SCS_Type_II_124.8mm	19:00	2.246
SCS_Type_II_124.8mm	19:15	2.246
SCS_Type_II_124.8mm	19:30	2.246
SCS_Type_II_124.8mm	19:45	2.246
SCS_Type_II_124.8mm	20:00	1.498
SCS_Type_II_124.8mm	20:15	1.498
SCS_Type_II_124.8mm	20:30	1.498
SCS_Type_II_124.8mm	20:45	1.498
SCS_Type_II_124.8mm	21:00	1.498
SCS_Type_II_124.8mm	21:15	1.498
SCS_Type_II_124.8mm	21:30	1.498
SCS_Type_II_124.8mm	21:45	1.498
SCS_Type_II_124.8mm	22:00	1.498
SCS_Type_II_124.8mm	22:15	1.498
SCS_Type_II_124.8mm	22:30	1.498
SCS_Type_II_124.8mm	22:45	1.498
SCS_Type_II_124.8mm	23:00	1.498
SCS_Type_II_124.8mm	23:15	1.498
SCS_Type_II_124.8mm	23:30	1.498
SCS_Type_II_124.8mm	23:45	1.498

;SCS_Type_II_136.8mm design storm, total rainfall = 136.8 mm, rain units = mm/hr.

SCS_Type_II_136.8mm	0:00	1.505
SCS_Type_II_136.8mm	0:15	1.505
SCS_Type_II_136.8mm	0:30	1.505
SCS_Type_II_136.8mm	0:45	1.505
SCS_Type_II_136.8mm	1:00	1.505
SCS_Type_II_136.8mm	1:15	1.505
SCS_Type_II_136.8mm	1:30	1.505
SCS_Type_II_136.8mm	1:45	1.505
SCS_Type_II_136.8mm	2:00	1.778
SCS_Type_II_136.8mm	2:15	1.778

SCS_Type_II_136.8mm	2:30	1.778
SCS_Type_II_136.8mm	2:45	1.778
SCS_Type_II_136.8mm	3:00	1.778
SCS_Type_II_136.8mm	3:15	1.778
SCS_Type_II_136.8mm	3:30	1.778
SCS_Type_II_136.8mm	3:45	1.778
SCS_Type_II_136.8mm	4:00	2.189
SCS_Type_II_136.8mm	4:15	2.189
SCS_Type_II_136.8mm	4:30	2.189
SCS_Type_II_136.8mm	4:45	2.189
SCS_Type_II_136.8mm	5:00	2.189
SCS_Type_II_136.8mm	5:15	2.189
SCS_Type_II_136.8mm	5:30	2.189
SCS_Type_II_136.8mm	5:45	2.189
SCS_Type_II_136.8mm	6:00	2.462
SCS_Type_II_136.8mm	6:15	2.462
SCS_Type_II_136.8mm	6:30	2.462
SCS_Type_II_136.8mm	6:45	2.462
SCS_Type_II_136.8mm	7:00	3.01
SCS_Type_II_136.8mm	7:15	3.01
SCS_Type_II_136.8mm	7:30	3.01
SCS_Type_II_136.8mm	7:45	3.01
SCS_Type_II_136.8mm	8:00	3.557
SCS_Type_II_136.8mm	8:15	3.557
SCS_Type_II_136.8mm	8:30	3.83
SCS_Type_II_136.8mm	8:45	3.83
SCS_Type_II_136.8mm	9:00	4.378
SCS_Type_II_136.8mm	9:15	4.378
SCS_Type_II_136.8mm	9:30	4.925
SCS_Type_II_136.8mm	9:45	4.925
SCS_Type_II_136.8mm	10:00	6.293
SCS_Type_II_136.8mm	10:15	6.293
SCS_Type_II_136.8mm	10:30	8.482
SCS_Type_II_136.8mm	10:45	8.482
SCS_Type_II_136.8mm	11:00	13.133
SCS_Type_II_136.8mm	11:15	13.133
SCS_Type_II_136.8mm	11:30	40.493
SCS_Type_II_136.8mm	11:45	167.443
SCS_Type_II_136.8mm	12:00	19.699
SCS_Type_II_136.8mm	12:15	19.699
SCS_Type_II_136.8mm	12:30	10.123
SCS_Type_II_136.8mm	12:45	10.123
SCS_Type_II_136.8mm	13:00	7.387
SCS_Type_II_136.8mm	13:15	7.387
SCS_Type_II_136.8mm	13:30	5.746
SCS_Type_II_136.8mm	13:45	5.746

SCS_Type_II_136.8mm	14:00	4.104
SCS_Type_II_136.8mm	14:15	4.104
SCS_Type_II_136.8mm	14:30	4.104
SCS_Type_II_136.8mm	14:45	4.104
SCS_Type_II_136.8mm	15:00	4.104
SCS_Type_II_136.8mm	15:15	4.104
SCS_Type_II_136.8mm	15:30	4.104
SCS_Type_II_136.8mm	15:45	4.104
SCS_Type_II_136.8mm	16:00	2.462
SCS_Type_II_136.8mm	16:15	2.462
SCS_Type_II_136.8mm	16:30	2.462
SCS_Type_II_136.8mm	16:45	2.462
SCS_Type_II_136.8mm	17:00	2.462
SCS_Type_II_136.8mm	17:15	2.462
SCS_Type_II_136.8mm	17:30	2.462
SCS_Type_II_136.8mm	17:45	2.462
SCS_Type_II_136.8mm	18:00	2.462
SCS_Type_II_136.8mm	18:15	2.462
SCS_Type_II_136.8mm	18:30	2.462
SCS_Type_II_136.8mm	18:45	2.462
SCS_Type_II_136.8mm	19:00	2.462
SCS_Type_II_136.8mm	19:15	2.462
SCS_Type_II_136.8mm	19:30	2.462
SCS_Type_II_136.8mm	19:45	2.462
SCS_Type_II_136.8mm	20:00	1.642
SCS_Type_II_136.8mm	20:15	1.642
SCS_Type_II_136.8mm	20:30	1.642
SCS_Type_II_136.8mm	20:45	1.642
SCS_Type_II_136.8mm	21:00	1.642
SCS_Type_II_136.8mm	21:15	1.642
SCS_Type_II_136.8mm	21:30	1.642
SCS_Type_II_136.8mm	21:45	1.642
SCS_Type_II_136.8mm	22:00	1.642
SCS_Type_II_136.8mm	22:15	1.642
SCS_Type_II_136.8mm	22:30	1.642
SCS_Type_II_136.8mm	22:45	1.642
SCS_Type_II_136.8mm	23:00	1.642
SCS_Type_II_136.8mm	23:15	1.642
SCS_Type_II_136.8mm	23:30	1.642
SCS_Type_II_136.8mm	23:45	1.642

;SCS_Type_II_69.6mm design storm, total rainfall = 69.6 mm, rain units = mm/hr.

SCS_Type_II_69.6mm	0:00	0.766
SCS_Type_II_69.6mm	0:15	0.766
SCS_Type_II_69.6mm	0:30	0.766
SCS_Type_II_69.6mm	0:45	0.766

SCS_Type_II_69.6mm	1:00	0.766
SCS_Type_II_69.6mm	1:15	0.766
SCS_Type_II_69.6mm	1:30	0.766
SCS_Type_II_69.6mm	1:45	0.766
SCS_Type_II_69.6mm	2:00	0.905
SCS_Type_II_69.6mm	2:15	0.905
SCS_Type_II_69.6mm	2:30	0.905
SCS_Type_II_69.6mm	2:45	0.905
SCS_Type_II_69.6mm	3:00	0.905
SCS_Type_II_69.6mm	3:15	0.905
SCS_Type_II_69.6mm	3:30	0.905
SCS_Type_II_69.6mm	3:45	0.905
SCS_Type_II_69.6mm	4:00	1.114
SCS_Type_II_69.6mm	4:15	1.114
SCS_Type_II_69.6mm	4:30	1.114
SCS_Type_II_69.6mm	4:45	1.114
SCS_Type_II_69.6mm	5:00	1.114
SCS_Type_II_69.6mm	5:15	1.114
SCS_Type_II_69.6mm	5:30	1.114
SCS_Type_II_69.6mm	5:45	1.114
SCS_Type_II_69.6mm	6:00	1.253
SCS_Type_II_69.6mm	6:15	1.253
SCS_Type_II_69.6mm	6:30	1.253
SCS_Type_II_69.6mm	6:45	1.253
SCS_Type_II_69.6mm	7:00	1.531
SCS_Type_II_69.6mm	7:15	1.531
SCS_Type_II_69.6mm	7:30	1.531
SCS_Type_II_69.6mm	7:45	1.531
SCS_Type_II_69.6mm	8:00	1.81
SCS_Type_II_69.6mm	8:15	1.81
SCS_Type_II_69.6mm	8:30	1.949
SCS_Type_II_69.6mm	8:45	1.949
SCS_Type_II_69.6mm	9:00	2.227
SCS_Type_II_69.6mm	9:15	2.227
SCS_Type_II_69.6mm	9:30	2.506
SCS_Type_II_69.6mm	9:45	2.506
SCS_Type_II_69.6mm	10:00	3.202
SCS_Type_II_69.6mm	10:15	3.202
SCS_Type_II_69.6mm	10:30	4.315
SCS_Type_II_69.6mm	10:45	4.315
SCS_Type_II_69.6mm	11:00	6.682
SCS_Type_II_69.6mm	11:15	6.682
SCS_Type_II_69.6mm	11:30	20.602
SCS_Type_II_69.6mm	11:45	85.19
SCS_Type_II_69.6mm	12:00	10.022
SCS_Type_II_69.6mm	12:15	10.022

SCS_Type_II_69.6mm	12:30	5.15
SCS_Type_II_69.6mm	12:45	5.15
SCS_Type_II_69.6mm	13:00	3.758
SCS_Type_II_69.6mm	13:15	3.758
SCS_Type_II_69.6mm	13:30	2.923
SCS_Type_II_69.6mm	13:45	2.923
SCS_Type_II_69.6mm	14:00	2.088
SCS_Type_II_69.6mm	14:15	2.088
SCS_Type_II_69.6mm	14:30	2.088
SCS_Type_II_69.6mm	14:45	2.088
SCS_Type_II_69.6mm	15:00	2.088
SCS_Type_II_69.6mm	15:15	2.088
SCS_Type_II_69.6mm	15:30	2.088
SCS_Type_II_69.6mm	15:45	2.088
SCS_Type_II_69.6mm	16:00	1.253
SCS_Type_II_69.6mm	16:15	1.253
SCS_Type_II_69.6mm	16:30	1.253
SCS_Type_II_69.6mm	16:45	1.253
SCS_Type_II_69.6mm	17:00	1.253
SCS_Type_II_69.6mm	17:15	1.253
SCS_Type_II_69.6mm	17:30	1.253
SCS_Type_II_69.6mm	17:45	1.253
SCS_Type_II_69.6mm	18:00	1.253
SCS_Type_II_69.6mm	18:15	1.253
SCS_Type_II_69.6mm	18:30	1.253
SCS_Type_II_69.6mm	18:45	1.253
SCS_Type_II_69.6mm	19:00	1.253
SCS_Type_II_69.6mm	19:15	1.253
SCS_Type_II_69.6mm	19:30	1.253
SCS_Type_II_69.6mm	19:45	1.253
SCS_Type_II_69.6mm	20:00	0.835
SCS_Type_II_69.6mm	20:15	0.835
SCS_Type_II_69.6mm	20:30	0.835
SCS_Type_II_69.6mm	20:45	0.835
SCS_Type_II_69.6mm	21:00	0.835
SCS_Type_II_69.6mm	21:15	0.835
SCS_Type_II_69.6mm	21:30	0.835
SCS_Type_II_69.6mm	21:45	0.835
SCS_Type_II_69.6mm	22:00	0.835
SCS_Type_II_69.6mm	22:15	0.835
SCS_Type_II_69.6mm	22:30	0.835
SCS_Type_II_69.6mm	22:45	0.835
SCS_Type_II_69.6mm	23:00	0.835
SCS_Type_II_69.6mm	23:15	0.835
SCS_Type_II_69.6mm	23:30	0.835
SCS_Type_II_69.6mm	23:45	0.835

;SCS_Type_II_86.4mm design storm, total rainfall = 86.4 mm, rain units = mm/hr.

SCS_Type_II_86.4mm	0:00	0.95
SCS_Type_II_86.4mm	0:15	0.95
SCS_Type_II_86.4mm	0:30	0.95
SCS_Type_II_86.4mm	0:45	0.95
SCS_Type_II_86.4mm	1:00	0.95
SCS_Type_II_86.4mm	1:15	0.95
SCS_Type_II_86.4mm	1:30	0.95
SCS_Type_II_86.4mm	1:45	0.95
SCS_Type_II_86.4mm	2:00	1.123
SCS_Type_II_86.4mm	2:15	1.123
SCS_Type_II_86.4mm	2:30	1.123
SCS_Type_II_86.4mm	2:45	1.123
SCS_Type_II_86.4mm	3:00	1.123
SCS_Type_II_86.4mm	3:15	1.123
SCS_Type_II_86.4mm	3:30	1.123
SCS_Type_II_86.4mm	3:45	1.123
SCS_Type_II_86.4mm	4:00	1.382
SCS_Type_II_86.4mm	4:15	1.382
SCS_Type_II_86.4mm	4:30	1.382
SCS_Type_II_86.4mm	4:45	1.382
SCS_Type_II_86.4mm	5:00	1.382
SCS_Type_II_86.4mm	5:15	1.382
SCS_Type_II_86.4mm	5:30	1.382
SCS_Type_II_86.4mm	5:45	1.382
SCS_Type_II_86.4mm	6:00	1.555
SCS_Type_II_86.4mm	6:15	1.555
SCS_Type_II_86.4mm	6:30	1.555
SCS_Type_II_86.4mm	6:45	1.555
SCS_Type_II_86.4mm	7:00	1.901
SCS_Type_II_86.4mm	7:15	1.901
SCS_Type_II_86.4mm	7:30	1.901
SCS_Type_II_86.4mm	7:45	1.901
SCS_Type_II_86.4mm	8:00	2.246
SCS_Type_II_86.4mm	8:15	2.246
SCS_Type_II_86.4mm	8:30	2.419
SCS_Type_II_86.4mm	8:45	2.419
SCS_Type_II_86.4mm	9:00	2.765
SCS_Type_II_86.4mm	9:15	2.765
SCS_Type_II_86.4mm	9:30	3.11
SCS_Type_II_86.4mm	9:45	3.11
SCS_Type_II_86.4mm	10:00	3.974
SCS_Type_II_86.4mm	10:15	3.974
SCS_Type_II_86.4mm	10:30	5.357
SCS_Type_II_86.4mm	10:45	5.357

SCS_Type_II_86.4mm	11:00	8.294
SCS_Type_II_86.4mm	11:15	8.294
SCS_Type_II_86.4mm	11:30	25.574
SCS_Type_II_86.4mm	11:45	105.754
SCS_Type_II_86.4mm	12:00	12.442
SCS_Type_II_86.4mm	12:15	12.442
SCS_Type_II_86.4mm	12:30	6.394
SCS_Type_II_86.4mm	12:45	6.394
SCS_Type_II_86.4mm	13:00	4.666
SCS_Type_II_86.4mm	13:15	4.666
SCS_Type_II_86.4mm	13:30	3.629
SCS_Type_II_86.4mm	13:45	3.629
SCS_Type_II_86.4mm	14:00	2.592
SCS_Type_II_86.4mm	14:15	2.592
SCS_Type_II_86.4mm	14:30	2.592
SCS_Type_II_86.4mm	14:45	2.592
SCS_Type_II_86.4mm	15:00	2.592
SCS_Type_II_86.4mm	15:15	2.592
SCS_Type_II_86.4mm	15:30	2.592
SCS_Type_II_86.4mm	15:45	2.592
SCS_Type_II_86.4mm	16:00	1.555
SCS_Type_II_86.4mm	16:15	1.555
SCS_Type_II_86.4mm	16:30	1.555
SCS_Type_II_86.4mm	16:45	1.555
SCS_Type_II_86.4mm	17:00	1.555
SCS_Type_II_86.4mm	17:15	1.555
SCS_Type_II_86.4mm	17:30	1.555
SCS_Type_II_86.4mm	17:45	1.555
SCS_Type_II_86.4mm	18:00	1.555
SCS_Type_II_86.4mm	18:15	1.555
SCS_Type_II_86.4mm	18:30	1.555
SCS_Type_II_86.4mm	18:45	1.555
SCS_Type_II_86.4mm	19:00	1.555
SCS_Type_II_86.4mm	19:15	1.555
SCS_Type_II_86.4mm	19:30	1.555
SCS_Type_II_86.4mm	19:45	1.555
SCS_Type_II_86.4mm	20:00	1.037
SCS_Type_II_86.4mm	20:15	1.037
SCS_Type_II_86.4mm	20:30	1.037
SCS_Type_II_86.4mm	20:45	1.037
SCS_Type_II_86.4mm	21:00	1.037
SCS_Type_II_86.4mm	21:15	1.037
SCS_Type_II_86.4mm	21:30	1.037
SCS_Type_II_86.4mm	21:45	1.037
SCS_Type_II_86.4mm	22:00	1.037
SCS_Type_II_86.4mm	22:15	1.037

SCS_Type_II_86.4mm	22:30	1.037
SCS_Type_II_86.4mm	22:45	1.037
SCS_Type_II_86.4mm	23:00	1.037
SCS_Type_II_86.4mm	23:15	1.037
SCS_Type_II_86.4mm	23:30	1.037
SCS_Type_II_86.4mm	23:45	1.037

;SCS_Type_II_98.4mm design storm, total rainfall = 98.4 mm, rain units = mm/hr.

SCS_Type_II_98.4mm	0:00	1.082
SCS_Type_II_98.4mm	0:15	1.082
SCS_Type_II_98.4mm	0:30	1.082
SCS_Type_II_98.4mm	0:45	1.082
SCS_Type_II_98.4mm	1:00	1.082
SCS_Type_II_98.4mm	1:15	1.082
SCS_Type_II_98.4mm	1:30	1.082
SCS_Type_II_98.4mm	1:45	1.082
SCS_Type_II_98.4mm	2:00	1.279
SCS_Type_II_98.4mm	2:15	1.279
SCS_Type_II_98.4mm	2:30	1.279
SCS_Type_II_98.4mm	2:45	1.279
SCS_Type_II_98.4mm	3:00	1.279
SCS_Type_II_98.4mm	3:15	1.279
SCS_Type_II_98.4mm	3:30	1.279
SCS_Type_II_98.4mm	3:45	1.279
SCS_Type_II_98.4mm	4:00	1.574
SCS_Type_II_98.4mm	4:15	1.574
SCS_Type_II_98.4mm	4:30	1.574
SCS_Type_II_98.4mm	4:45	1.574
SCS_Type_II_98.4mm	5:00	1.574
SCS_Type_II_98.4mm	5:15	1.574
SCS_Type_II_98.4mm	5:30	1.574
SCS_Type_II_98.4mm	5:45	1.574
SCS_Type_II_98.4mm	6:00	1.771
SCS_Type_II_98.4mm	6:15	1.771
SCS_Type_II_98.4mm	6:30	1.771
SCS_Type_II_98.4mm	6:45	1.771
SCS_Type_II_98.4mm	7:00	2.165
SCS_Type_II_98.4mm	7:15	2.165
SCS_Type_II_98.4mm	7:30	2.165
SCS_Type_II_98.4mm	7:45	2.165
SCS_Type_II_98.4mm	8:00	2.558
SCS_Type_II_98.4mm	8:15	2.558
SCS_Type_II_98.4mm	8:30	2.755
SCS_Type_II_98.4mm	8:45	2.755
SCS_Type_II_98.4mm	9:00	3.149
SCS_Type_II_98.4mm	9:15	3.149

SCS_Type_II_98.4mm	9:30	3.542
SCS_Type_II_98.4mm	9:45	3.542
SCS_Type_II_98.4mm	10:00	4.526
SCS_Type_II_98.4mm	10:15	4.526
SCS_Type_II_98.4mm	10:30	6.101
SCS_Type_II_98.4mm	10:45	6.101
SCS_Type_II_98.4mm	11:00	9.446
SCS_Type_II_98.4mm	11:15	9.446
SCS_Type_II_98.4mm	11:30	29.126
SCS_Type_II_98.4mm	11:45	120.442
SCS_Type_II_98.4mm	12:00	14.17
SCS_Type_II_98.4mm	12:15	14.17
SCS_Type_II_98.4mm	12:30	7.282
SCS_Type_II_98.4mm	12:45	7.282
SCS_Type_II_98.4mm	13:00	5.314
SCS_Type_II_98.4mm	13:15	5.314
SCS_Type_II_98.4mm	13:30	4.133
SCS_Type_II_98.4mm	13:45	4.133
SCS_Type_II_98.4mm	14:00	2.952
SCS_Type_II_98.4mm	14:15	2.952
SCS_Type_II_98.4mm	14:30	2.952
SCS_Type_II_98.4mm	14:45	2.952
SCS_Type_II_98.4mm	15:00	2.952
SCS_Type_II_98.4mm	15:15	2.952
SCS_Type_II_98.4mm	15:30	2.952
SCS_Type_II_98.4mm	15:45	2.952
SCS_Type_II_98.4mm	16:00	1.771
SCS_Type_II_98.4mm	16:15	1.771
SCS_Type_II_98.4mm	16:30	1.771
SCS_Type_II_98.4mm	16:45	1.771
SCS_Type_II_98.4mm	17:00	1.771
SCS_Type_II_98.4mm	17:15	1.771
SCS_Type_II_98.4mm	17:30	1.771
SCS_Type_II_98.4mm	17:45	1.771
SCS_Type_II_98.4mm	18:00	1.771
SCS_Type_II_98.4mm	18:15	1.771
SCS_Type_II_98.4mm	18:30	1.771
SCS_Type_II_98.4mm	18:45	1.771
SCS_Type_II_98.4mm	19:00	1.771
SCS_Type_II_98.4mm	19:15	1.771
SCS_Type_II_98.4mm	19:30	1.771
SCS_Type_II_98.4mm	19:45	1.771
SCS_Type_II_98.4mm	20:00	1.181
SCS_Type_II_98.4mm	20:15	1.181
SCS_Type_II_98.4mm	20:30	1.181
SCS_Type_II_98.4mm	20:45	1.181

SCS_Type_II_98.4mm	21:00	1.181
SCS_Type_II_98.4mm	21:15	1.181
SCS_Type_II_98.4mm	21:30	1.181
SCS_Type_II_98.4mm	21:45	1.181
SCS_Type_II_98.4mm	22:00	1.181
SCS_Type_II_98.4mm	22:15	1.181
SCS_Type_II_98.4mm	22:30	1.181
SCS_Type_II_98.4mm	22:45	1.181
SCS_Type_II_98.4mm	23:00	1.181
SCS_Type_II_98.4mm	23:15	1.181
SCS_Type_II_98.4mm	23:30	1.181
SCS_Type_II_98.4mm	23:45	1.181

Timeseries	10/1/2019	0:00	2.03
Timeseries	10/1/2019	1:00	2.03
Timeseries	10/1/2019	2:00	2.03
Timeseries	10/1/2019	3:00	2.03
Timeseries	10/1/2019	4:00	2.03
Timeseries	10/1/2019	5:00	2.03
Timeseries	10/1/2019	6:00	2.03
Timeseries	10/1/2019	7:00	2.03
Timeseries	10/1/2019	8:00	2.03
Timeseries	10/1/2019	9:00	2.03
Timeseries	10/1/2019	10:00	2.03
Timeseries	10/1/2019	11:00	2.03
Timeseries	10/1/2019	12:00	2.03
Timeseries	10/1/2019	13:00	2.03
Timeseries	10/1/2019	14:00	2.03
Timeseries	10/1/2019	15:00	2.03
Timeseries	10/1/2019	16:00	2.03
Timeseries	10/1/2019	17:00	2.03
Timeseries	10/1/2019	18:00	2.03
Timeseries	10/1/2019	19:00	2.03
Timeseries	10/1/2019	20:00	2.03
Timeseries	10/1/2019	21:00	2.03
Timeseries	10/1/2019	22:00	2.03
Timeseries	10/1/2019	23:00	2.03
Timeseries	10/2/2019	0:00	2.03
Timeseries	10/2/2019	1:00	2.03
Timeseries	10/2/2019	2:00	2.03
Timeseries	10/2/2019	3:00	2.03
Timeseries	10/2/2019	4:00	2.03
Timeseries	10/2/2019	5:00	2.03
Timeseries	10/2/2019	6:00	2.03
Timeseries	10/2/2019	7:00	2.03
Timeseries	10/2/2019	8:00	2.03

Timeseries	10/2/2019	9:00	2.03
Timeseries	10/2/2019	10:00	2.03
Timeseries	10/2/2019	11:00	2.03
Timeseries	10/2/2019	12:00	6
Timeseries	10/2/2019	13:00	4
Timeseries	10/2/2019	14:00	6
Timeseries	10/2/2019	15:00	13
Timeseries	10/2/2019	16:00	17
Timeseries	10/2/2019	17:00	13
Timeseries	10/2/2019	18:00	23
Timeseries	10/2/2019	19:00	13
Timeseries	10/2/2019	20:00	13
Timeseries	10/2/2019	21:00	53
Timeseries	10/2/2019	22:00	38
Timeseries	10/2/2019	23:00	13

;Chicago design storm, a = 2150, b = 5.7, c = 0.861, Duration = 1440 minutes, r = 0.33, rain units = mm/hr.

TO_Chicago24hr100yr	0:00	0.588
TO_Chicago24hr100yr	0:10	0.599
TO_Chicago24hr100yr	0:20	0.611
TO_Chicago24hr100yr	0:30	0.623
TO_Chicago24hr100yr	0:40	0.636
TO_Chicago24hr100yr	0:50	0.649
TO_Chicago24hr100yr	1:00	0.663
TO_Chicago24hr100yr	1:10	0.678
TO_Chicago24hr100yr	1:20	0.693
TO_Chicago24hr100yr	1:30	0.709
TO_Chicago24hr100yr	1:40	0.726
TO_Chicago24hr100yr	1:50	0.744
TO_Chicago24hr100yr	2:00	0.763
TO_Chicago24hr100yr	2:10	0.783
TO_Chicago24hr100yr	2:20	0.804
TO_Chicago24hr100yr	2:30	0.826
TO_Chicago24hr100yr	2:40	0.85
TO_Chicago24hr100yr	2:50	0.875
TO_Chicago24hr100yr	3:00	0.902
TO_Chicago24hr100yr	3:10	0.931
TO_Chicago24hr100yr	3:20	0.961
TO_Chicago24hr100yr	3:30	0.994
TO_Chicago24hr100yr	3:40	1.03
TO_Chicago24hr100yr	3:50	1.068
TO_Chicago24hr100yr	4:00	1.11
TO_Chicago24hr100yr	4:10	1.156
TO_Chicago24hr100yr	4:20	1.205
TO_Chicago24hr100yr	4:30	1.26
TO_Chicago24hr100yr	4:40	1.32

TO_Chicago24hr100yr	4:50	1.386
TO_Chicago24hr100yr	5:00	1.46
TO_Chicago24hr100yr	5:10	1.544
TO_Chicago24hr100yr	5:20	1.638
TO_Chicago24hr100yr	5:30	1.746
TO_Chicago24hr100yr	5:40	1.87
TO_Chicago24hr100yr	5:50	2.014
TO_Chicago24hr100yr	6:00	2.185
TO_Chicago24hr100yr	6:10	2.39
TO_Chicago24hr100yr	6:20	2.642
TO_Chicago24hr100yr	6:30	2.958
TO_Chicago24hr100yr	6:40	3.366
TO_Chicago24hr100yr	6:50	3.916
TO_Chicago24hr100yr	7:00	4.699
TO_Chicago24hr100yr	7:10	5.905
TO_Chicago24hr100yr	7:20	8.002
TO_Chicago24hr100yr	7:30	12.553
TO_Chicago24hr100yr	7:40	29.487
TO_Chicago24hr100yr	7:50	200.802
TO_Chicago24hr100yr	8:00	60.756
TO_Chicago24hr100yr	8:10	28.591
TO_Chicago24hr100yr	8:20	17.692
TO_Chicago24hr100yr	8:30	12.732
TO_Chicago24hr100yr	8:40	9.936
TO_Chicago24hr100yr	8:50	8.152
TO_Chicago24hr100yr	9:00	6.92
TO_Chicago24hr100yr	9:10	6.018
TO_Chicago24hr100yr	9:20	5.33
TO_Chicago24hr100yr	9:30	4.787
TO_Chicago24hr100yr	9:40	4.349
TO_Chicago24hr100yr	9:50	3.988
TO_Chicago24hr100yr	10:00	3.684
TO_Chicago24hr100yr	10:10	3.426
TO_Chicago24hr100yr	10:20	3.203
TO_Chicago24hr100yr	10:30	3.009
TO_Chicago24hr100yr	10:40	2.838
TO_Chicago24hr100yr	10:50	2.687
TO_Chicago24hr100yr	11:00	2.552
TO_Chicago24hr100yr	11:10	2.43
TO_Chicago24hr100yr	11:20	2.32
TO_Chicago24hr100yr	11:30	2.221
TO_Chicago24hr100yr	11:40	2.13
TO_Chicago24hr100yr	11:50	2.047
TO_Chicago24hr100yr	12:00	1.97
TO_Chicago24hr100yr	12:10	1.899
TO_Chicago24hr100yr	12:20	1.834

TO_Chicago24hr100yr	12:30	1.773
TO_Chicago24hr100yr	12:40	1.716
TO_Chicago24hr100yr	12:50	1.664
TO_Chicago24hr100yr	13:00	1.614
TO_Chicago24hr100yr	13:10	1.568
TO_Chicago24hr100yr	13:20	1.524
TO_Chicago24hr100yr	13:30	1.483
TO_Chicago24hr100yr	13:40	1.444
TO_Chicago24hr100yr	13:50	1.407
TO_Chicago24hr100yr	14:00	1.373
TO_Chicago24hr100yr	14:10	1.34
TO_Chicago24hr100yr	14:20	1.308
TO_Chicago24hr100yr	14:30	1.279
TO_Chicago24hr100yr	14:40	1.25
TO_Chicago24hr100yr	14:50	1.223
TO_Chicago24hr100yr	15:00	1.197
TO_Chicago24hr100yr	15:10	1.173
TO_Chicago24hr100yr	15:20	1.149
TO_Chicago24hr100yr	15:30	1.127
TO_Chicago24hr100yr	15:40	1.105
TO_Chicago24hr100yr	15:50	1.084
TO_Chicago24hr100yr	16:00	1.064
TO_Chicago24hr100yr	16:10	1.045
TO_Chicago24hr100yr	16:20	1.027
TO_Chicago24hr100yr	16:30	1.009
TO_Chicago24hr100yr	16:40	0.992
TO_Chicago24hr100yr	16:50	0.975
TO_Chicago24hr100yr	17:00	0.959
TO_Chicago24hr100yr	17:10	0.944
TO_Chicago24hr100yr	17:20	0.929
TO_Chicago24hr100yr	17:30	0.915
TO_Chicago24hr100yr	17:40	0.901
TO_Chicago24hr100yr	17:50	0.888
TO_Chicago24hr100yr	18:00	0.874
TO_Chicago24hr100yr	18:10	0.862
TO_Chicago24hr100yr	18:20	0.85
TO_Chicago24hr100yr	18:30	0.838
TO_Chicago24hr100yr	18:40	0.826
TO_Chicago24hr100yr	18:50	0.815
TO_Chicago24hr100yr	19:00	0.804
TO_Chicago24hr100yr	19:10	0.794
TO_Chicago24hr100yr	19:20	0.784
TO_Chicago24hr100yr	19:30	0.774
TO_Chicago24hr100yr	19:40	0.764
TO_Chicago24hr100yr	19:50	0.754
TO_Chicago24hr100yr	20:00	0.745

TO_Chicago24hr100yr	20:10	0.736
TO_Chicago24hr100yr	20:20	0.728
TO_Chicago24hr100yr	20:30	0.719
TO_Chicago24hr100yr	20:40	0.711
TO_Chicago24hr100yr	20:50	0.703
TO_Chicago24hr100yr	21:00	0.695
TO_Chicago24hr100yr	21:10	0.687
TO_Chicago24hr100yr	21:20	0.68
TO_Chicago24hr100yr	21:30	0.672
TO_Chicago24hr100yr	21:40	0.665
TO_Chicago24hr100yr	21:50	0.658
TO_Chicago24hr100yr	22:00	0.651
TO_Chicago24hr100yr	22:10	0.645
TO_Chicago24hr100yr	22:20	0.638
TO_Chicago24hr100yr	22:30	0.632
TO_Chicago24hr100yr	22:40	0.625
TO_Chicago24hr100yr	22:50	0.619
TO_Chicago24hr100yr	23:00	0.613
TO_Chicago24hr100yr	23:10	0.607
TO_Chicago24hr100yr	23:20	0.602
TO_Chicago24hr100yr	23:30	0.596
TO_Chicago24hr100yr	23:40	0.59
TO_Chicago24hr100yr	23:50	0.585
TO_Chicago24hr100yr	24:00	0

;Chicago design storm, a = 1400, b = 5.8, c = 0.848, Duration = 1440 minutes, r = 0.33, rain units = mm/hr.

TO_Chicago24hr10yr	0:00	0.459
TO_Chicago24hr10yr	0:10	0.468
TO_Chicago24hr10yr	0:20	0.477
TO_Chicago24hr10yr	0:30	0.486
TO_Chicago24hr10yr	0:40	0.496
TO_Chicago24hr10yr	0:50	0.506
TO_Chicago24hr10yr	1:00	0.517
TO_Chicago24hr10yr	1:10	0.528
TO_Chicago24hr10yr	1:20	0.54
TO_Chicago24hr10yr	1:30	0.552
TO_Chicago24hr10yr	1:40	0.565
TO_Chicago24hr10yr	1:50	0.579
TO_Chicago24hr10yr	2:00	0.593
TO_Chicago24hr10yr	2:10	0.608
TO_Chicago24hr10yr	2:20	0.624
TO_Chicago24hr10yr	2:30	0.641
TO_Chicago24hr10yr	2:40	0.659
TO_Chicago24hr10yr	2:50	0.679
TO_Chicago24hr10yr	3:00	0.699
TO_Chicago24hr10yr	3:10	0.721

TO_Chicago24hr10yr	3:20	0.744
TO_Chicago24hr10yr	3:30	0.769
TO_Chicago24hr10yr	3:40	0.796
TO_Chicago24hr10yr	3:50	0.826
TO_Chicago24hr10yr	4:00	0.857
TO_Chicago24hr10yr	4:10	0.892
TO_Chicago24hr10yr	4:20	0.929
TO_Chicago24hr10yr	4:30	0.97
TO_Chicago24hr10yr	4:40	1.016
TO_Chicago24hr10yr	4:50	1.066
TO_Chicago24hr10yr	5:00	1.122
TO_Chicago24hr10yr	5:10	1.185
TO_Chicago24hr10yr	5:20	1.255
TO_Chicago24hr10yr	5:30	1.336
TO_Chicago24hr10yr	5:40	1.429
TO_Chicago24hr10yr	5:50	1.537
TO_Chicago24hr10yr	6:00	1.665
TO_Chicago24hr10yr	6:10	1.818
TO_Chicago24hr10yr	6:20	2.004
TO_Chicago24hr10yr	6:30	2.238
TO_Chicago24hr10yr	6:40	2.54
TO_Chicago24hr10yr	6:50	2.944
TO_Chicago24hr10yr	7:00	3.517
TO_Chicago24hr10yr	7:10	4.392
TO_Chicago24hr10yr	7:20	5.903
TO_Chicago24hr10yr	7:30	9.142
TO_Chicago24hr10yr	7:40	20.924
TO_Chicago24hr10yr	7:50	134.793
TO_Chicago24hr10yr	8:00	42.276
TO_Chicago24hr10yr	8:10	20.332
TO_Chicago24hr10yr	8:20	12.76
TO_Chicago24hr10yr	8:30	9.271
TO_Chicago24hr10yr	8:40	7.287
TO_Chicago24hr10yr	8:50	6.012
TO_Chicago24hr10yr	9:00	5.126
TO_Chicago24hr10yr	9:10	4.474
TO_Chicago24hr10yr	9:20	3.975
TO_Chicago24hr10yr	9:30	3.581
TO_Chicago24hr10yr	9:40	3.261
TO_Chicago24hr10yr	9:50	2.996
TO_Chicago24hr10yr	10:00	2.774
TO_Chicago24hr10yr	10:10	2.583
TO_Chicago24hr10yr	10:20	2.419
TO_Chicago24hr10yr	10:30	2.276
TO_Chicago24hr10yr	10:40	2.15
TO_Chicago24hr10yr	10:50	2.038

TO_Chicago24hr10yr	11:00	1.937
TO_Chicago24hr10yr	11:10	1.847
TO_Chicago24hr10yr	11:20	1.766
TO_Chicago24hr10yr	11:30	1.691
TO_Chicago24hr10yr	11:40	1.624
TO_Chicago24hr10yr	11:50	1.561
TO_Chicago24hr10yr	12:00	1.504
TO_Chicago24hr10yr	12:10	1.451
TO_Chicago24hr10yr	12:20	1.402
TO_Chicago24hr10yr	12:30	1.357
TO_Chicago24hr10yr	12:40	1.314
TO_Chicago24hr10yr	12:50	1.275
TO_Chicago24hr10yr	13:00	1.237
TO_Chicago24hr10yr	13:10	1.202
TO_Chicago24hr10yr	13:20	1.17
TO_Chicago24hr10yr	13:30	1.139
TO_Chicago24hr10yr	13:40	1.109
TO_Chicago24hr10yr	13:50	1.082
TO_Chicago24hr10yr	14:00	1.056
TO_Chicago24hr10yr	14:10	1.031
TO_Chicago24hr10yr	14:20	1.007
TO_Chicago24hr10yr	14:30	0.985
TO_Chicago24hr10yr	14:40	0.963
TO_Chicago24hr10yr	14:50	0.943
TO_Chicago24hr10yr	15:00	0.923
TO_Chicago24hr10yr	15:10	0.905
TO_Chicago24hr10yr	15:20	0.887
TO_Chicago24hr10yr	15:30	0.87
TO_Chicago24hr10yr	15:40	0.853
TO_Chicago24hr10yr	15:50	0.838
TO_Chicago24hr10yr	16:00	0.822
TO_Chicago24hr10yr	16:10	0.808
TO_Chicago24hr10yr	16:20	0.794
TO_Chicago24hr10yr	16:30	0.78
TO_Chicago24hr10yr	16:40	0.767
TO_Chicago24hr10yr	16:50	0.755
TO_Chicago24hr10yr	17:00	0.743
TO_Chicago24hr10yr	17:10	0.731
TO_Chicago24hr10yr	17:20	0.72
TO_Chicago24hr10yr	17:30	0.709
TO_Chicago24hr10yr	17:40	0.698
TO_Chicago24hr10yr	17:50	0.688
TO_Chicago24hr10yr	18:00	0.678
TO_Chicago24hr10yr	18:10	0.669
TO_Chicago24hr10yr	18:20	0.659
TO_Chicago24hr10yr	18:30	0.65

TO_Chicago24hr10yr	18:40	0.642
TO_Chicago24hr10yr	18:50	0.633
TO_Chicago24hr10yr	19:00	0.625
TO_Chicago24hr10yr	19:10	0.617
TO_Chicago24hr10yr	19:20	0.609
TO_Chicago24hr10yr	19:30	0.601
TO_Chicago24hr10yr	19:40	0.594
TO_Chicago24hr10yr	19:50	0.587
TO_Chicago24hr10yr	20:00	0.58
TO_Chicago24hr10yr	20:10	0.573
TO_Chicago24hr10yr	20:20	0.566
TO_Chicago24hr10yr	20:30	0.56
TO_Chicago24hr10yr	20:40	0.553
TO_Chicago24hr10yr	20:50	0.547
TO_Chicago24hr10yr	21:00	0.541
TO_Chicago24hr10yr	21:10	0.535
TO_Chicago24hr10yr	21:20	0.529
TO_Chicago24hr10yr	21:30	0.524
TO_Chicago24hr10yr	21:40	0.518
TO_Chicago24hr10yr	21:50	0.513
TO_Chicago24hr10yr	22:00	0.508
TO_Chicago24hr10yr	22:10	0.503
TO_Chicago24hr10yr	22:20	0.498
TO_Chicago24hr10yr	22:30	0.493
TO_Chicago24hr10yr	22:40	0.488
TO_Chicago24hr10yr	22:50	0.483
TO_Chicago24hr10yr	23:00	0.479
TO_Chicago24hr10yr	23:10	0.474
TO_Chicago24hr10yr	23:20	0.47
TO_Chicago24hr10yr	23:30	0.465
TO_Chicago24hr10yr	23:40	0.461
TO_Chicago24hr10yr	23:50	0.457
TO_Chicago24hr10yr	24:00	0

;Chicago design storm, a = 1680, b = 5.6, c = 0.851, Duration = 1440 minutes, r = 0.33, rain units = mm/hr.

TO_Chicago24hr25yr	0:00	0.528
TO_Chicago24hr25yr	0:10	0.538
TO_Chicago24hr25yr	0:20	0.549
TO_Chicago24hr25yr	0:30	0.559
TO_Chicago24hr25yr	0:40	0.571
TO_Chicago24hr25yr	0:50	0.583
TO_Chicago24hr25yr	1:00	0.595
TO_Chicago24hr25yr	1:10	0.608
TO_Chicago24hr25yr	1:20	0.621
TO_Chicago24hr25yr	1:30	0.636
TO_Chicago24hr25yr	1:40	0.651

TO_Chicago24hr25yr	1:50	0.666
TO_Chicago24hr25yr	2:00	0.683
TO_Chicago24hr25yr	2:10	0.701
TO_Chicago24hr25yr	2:20	0.719
TO_Chicago24hr25yr	2:30	0.739
TO_Chicago24hr25yr	2:40	0.76
TO_Chicago24hr25yr	2:50	0.782
TO_Chicago24hr25yr	3:00	0.806
TO_Chicago24hr25yr	3:10	0.831
TO_Chicago24hr25yr	3:20	0.858
TO_Chicago24hr25yr	3:30	0.887
TO_Chicago24hr25yr	3:40	0.918
TO_Chicago24hr25yr	3:50	0.952
TO_Chicago24hr25yr	4:00	0.989
TO_Chicago24hr25yr	4:10	1.028
TO_Chicago24hr25yr	4:20	1.072
TO_Chicago24hr25yr	4:30	1.119
TO_Chicago24hr25yr	4:40	1.172
TO_Chicago24hr25yr	4:50	1.23
TO_Chicago24hr25yr	5:00	1.295
TO_Chicago24hr25yr	5:10	1.367
TO_Chicago24hr25yr	5:20	1.449
TO_Chicago24hr25yr	5:30	1.543
TO_Chicago24hr25yr	5:40	1.65
TO_Chicago24hr25yr	5:50	1.776
TO_Chicago24hr25yr	6:00	1.923
TO_Chicago24hr25yr	6:10	2.101
TO_Chicago24hr25yr	6:20	2.317
TO_Chicago24hr25yr	6:30	2.588
TO_Chicago24hr25yr	6:40	2.938
TO_Chicago24hr25yr	6:50	3.407
TO_Chicago24hr25yr	7:00	4.072
TO_Chicago24hr25yr	7:10	5.089
TO_Chicago24hr25yr	7:20	6.845
TO_Chicago24hr25yr	7:30	10.618
TO_Chicago24hr25yr	7:40	24.427
TO_Chicago24hr25yr	7:50	162.166
TO_Chicago24hr25yr	8:00	49.665
TO_Chicago24hr25yr	8:10	23.718
TO_Chicago24hr25yr	8:20	14.843
TO_Chicago24hr25yr	8:30	10.769
TO_Chicago24hr25yr	8:40	8.456
TO_Chicago24hr25yr	8:50	6.972
TO_Chicago24hr25yr	9:00	5.941
TO_Chicago24hr25yr	9:10	5.184
TO_Chicago24hr25yr	9:20	4.604

TO_Chicago24hr25yr	9:30	4.146
TO_Chicago24hr25yr	9:40	3.775
TO_Chicago24hr25yr	9:50	3.468
TO_Chicago24hr25yr	10:00	3.209
TO_Chicago24hr25yr	10:10	2.989
TO_Chicago24hr25yr	10:20	2.798
TO_Chicago24hr25yr	10:30	2.632
TO_Chicago24hr25yr	10:40	2.485
TO_Chicago24hr25yr	10:50	2.356
TO_Chicago24hr25yr	11:00	2.239
TO_Chicago24hr25yr	11:10	2.135
TO_Chicago24hr25yr	11:20	2.04
TO_Chicago24hr25yr	11:30	1.954
TO_Chicago24hr25yr	11:40	1.876
TO_Chicago24hr25yr	11:50	1.804
TO_Chicago24hr25yr	12:00	1.737
TO_Chicago24hr25yr	12:10	1.676
TO_Chicago24hr25yr	12:20	1.619
TO_Chicago24hr25yr	12:30	1.567
TO_Chicago24hr25yr	12:40	1.517
TO_Chicago24hr25yr	12:50	1.472
TO_Chicago24hr25yr	13:00	1.428
TO_Chicago24hr25yr	13:10	1.388
TO_Chicago24hr25yr	13:20	1.35
TO_Chicago24hr25yr	13:30	1.314
TO_Chicago24hr25yr	13:40	1.28
TO_Chicago24hr25yr	13:50	1.248
TO_Chicago24hr25yr	14:00	1.218
TO_Chicago24hr25yr	14:10	1.189
TO_Chicago24hr25yr	14:20	1.162
TO_Chicago24hr25yr	14:30	1.136
TO_Chicago24hr25yr	14:40	1.111
TO_Chicago24hr25yr	14:50	1.088
TO_Chicago24hr25yr	15:00	1.065
TO_Chicago24hr25yr	15:10	1.043
TO_Chicago24hr25yr	15:20	1.023
TO_Chicago24hr25yr	15:30	1.003
TO_Chicago24hr25yr	15:40	0.984
TO_Chicago24hr25yr	15:50	0.966
TO_Chicago24hr25yr	16:00	0.948
TO_Chicago24hr25yr	16:10	0.931
TO_Chicago24hr25yr	16:20	0.915
TO_Chicago24hr25yr	16:30	0.9
TO_Chicago24hr25yr	16:40	0.885
TO_Chicago24hr25yr	16:50	0.87
TO_Chicago24hr25yr	17:00	0.856

TO_Chicago24hr25yr	17:10	0.843
TO_Chicago24hr25yr	17:20	0.83
TO_Chicago24hr25yr	17:30	0.817
TO_Chicago24hr25yr	17:40	0.805
TO_Chicago24hr25yr	17:50	0.793
TO_Chicago24hr25yr	18:00	0.782
TO_Chicago24hr25yr	18:10	0.77
TO_Chicago24hr25yr	18:20	0.76
TO_Chicago24hr25yr	18:30	0.749
TO_Chicago24hr25yr	18:40	0.739
TO_Chicago24hr25yr	18:50	0.729
TO_Chicago24hr25yr	19:00	0.72
TO_Chicago24hr25yr	19:10	0.71
TO_Chicago24hr25yr	19:20	0.701
TO_Chicago24hr25yr	19:30	0.693
TO_Chicago24hr25yr	19:40	0.684
TO_Chicago24hr25yr	19:50	0.676
TO_Chicago24hr25yr	20:00	0.668
TO_Chicago24hr25yr	20:10	0.66
TO_Chicago24hr25yr	20:20	0.652
TO_Chicago24hr25yr	20:30	0.644
TO_Chicago24hr25yr	20:40	0.637
TO_Chicago24hr25yr	20:50	0.63
TO_Chicago24hr25yr	21:00	0.623
TO_Chicago24hr25yr	21:10	0.616
TO_Chicago24hr25yr	21:20	0.61
TO_Chicago24hr25yr	21:30	0.603
TO_Chicago24hr25yr	21:40	0.597
TO_Chicago24hr25yr	21:50	0.591
TO_Chicago24hr25yr	22:00	0.584
TO_Chicago24hr25yr	22:10	0.579
TO_Chicago24hr25yr	22:20	0.573
TO_Chicago24hr25yr	22:30	0.567
TO_Chicago24hr25yr	22:40	0.562
TO_Chicago24hr25yr	22:50	0.556
TO_Chicago24hr25yr	23:00	0.551
TO_Chicago24hr25yr	23:10	0.546
TO_Chicago24hr25yr	23:20	0.54
TO_Chicago24hr25yr	23:30	0.535
TO_Chicago24hr25yr	23:40	0.531
TO_Chicago24hr25yr	23:50	0.526
TO_Chicago24hr25yr	24:00	0

;Chicago design storm, a = 725, b = 4.8, c = 0.808, Duration = 1440 minutes, r = 0.33, rain units = mm/hr.

TO_Chicago24hr2yr	0:00	0.398
TO_Chicago24hr2yr	0:10	0.405

TO_Chicago24hr2yr	0:20	0.413
TO_Chicago24hr2yr	0:30	0.421
TO_Chicago24hr2yr	0:40	0.429
TO_Chicago24hr2yr	0:50	0.437
TO_Chicago24hr2yr	1:00	0.446
TO_Chicago24hr2yr	1:10	0.455
TO_Chicago24hr2yr	1:20	0.464
TO_Chicago24hr2yr	1:30	0.474
TO_Chicago24hr2yr	1:40	0.485
TO_Chicago24hr2yr	1:50	0.496
TO_Chicago24hr2yr	2:00	0.507
TO_Chicago24hr2yr	2:10	0.52
TO_Chicago24hr2yr	2:20	0.533
TO_Chicago24hr2yr	2:30	0.546
TO_Chicago24hr2yr	2:40	0.561
TO_Chicago24hr2yr	2:50	0.576
TO_Chicago24hr2yr	3:00	0.592
TO_Chicago24hr2yr	3:10	0.61
TO_Chicago24hr2yr	3:20	0.629
TO_Chicago24hr2yr	3:30	0.648
TO_Chicago24hr2yr	3:40	0.67
TO_Chicago24hr2yr	3:50	0.693
TO_Chicago24hr2yr	4:00	0.718
TO_Chicago24hr2yr	4:10	0.745
TO_Chicago24hr2yr	4:20	0.774
TO_Chicago24hr2yr	4:30	0.806
TO_Chicago24hr2yr	4:40	0.841
TO_Chicago24hr2yr	4:50	0.88
TO_Chicago24hr2yr	5:00	0.923
TO_Chicago24hr2yr	5:10	0.971
TO_Chicago24hr2yr	5:20	1.026
TO_Chicago24hr2yr	5:30	1.087
TO_Chicago24hr2yr	5:40	1.157
TO_Chicago24hr2yr	5:50	1.238
TO_Chicago24hr2yr	6:00	1.333
TO_Chicago24hr2yr	6:10	1.446
TO_Chicago24hr2yr	6:20	1.583
TO_Chicago24hr2yr	6:30	1.753
TO_Chicago24hr2yr	6:40	1.968
TO_Chicago24hr2yr	6:50	2.254
TO_Chicago24hr2yr	7:00	2.651
TO_Chicago24hr2yr	7:10	3.245
TO_Chicago24hr2yr	7:20	4.239
TO_Chicago24hr2yr	7:30	6.286
TO_Chicago24hr2yr	7:40	13.302
TO_Chicago24hr2yr	7:50	82.18

TO_Chicago24hr2yr	8:00	25.664
TO_Chicago24hr2yr	8:10	12.98
TO_Chicago24hr2yr	8:20	8.5
TO_Chicago24hr2yr	8:30	6.371
TO_Chicago24hr2yr	8:40	5.128
TO_Chicago24hr2yr	8:50	4.311
TO_Chicago24hr2yr	9:00	3.733
TO_Chicago24hr2yr	9:10	3.3
TO_Chicago24hr2yr	9:20	2.964
TO_Chicago24hr2yr	9:30	2.695
TO_Chicago24hr2yr	9:40	2.475
TO_Chicago24hr2yr	9:50	2.291
TO_Chicago24hr2yr	10:00	2.134
TO_Chicago24hr2yr	10:10	2
TO_Chicago24hr2yr	10:20	1.883
TO_Chicago24hr2yr	10:30	1.78
TO_Chicago24hr2yr	10:40	1.689
TO_Chicago24hr2yr	10:50	1.607
TO_Chicago24hr2yr	11:00	1.534
TO_Chicago24hr2yr	11:10	1.468
TO_Chicago24hr2yr	11:20	1.408
TO_Chicago24hr2yr	11:30	1.353
TO_Chicago24hr2yr	11:40	1.303
TO_Chicago24hr2yr	11:50	1.256
TO_Chicago24hr2yr	12:00	1.214
TO_Chicago24hr2yr	12:10	1.174
TO_Chicago24hr2yr	12:20	1.137
TO_Chicago24hr2yr	12:30	1.102
TO_Chicago24hr2yr	12:40	1.07
TO_Chicago24hr2yr	12:50	1.04
TO_Chicago24hr2yr	13:00	1.012
TO_Chicago24hr2yr	13:10	0.985
TO_Chicago24hr2yr	13:20	0.96
TO_Chicago24hr2yr	13:30	0.936
TO_Chicago24hr2yr	13:40	0.914
TO_Chicago24hr2yr	13:50	0.892
TO_Chicago24hr2yr	14:00	0.872
TO_Chicago24hr2yr	14:10	0.853
TO_Chicago24hr2yr	14:20	0.835
TO_Chicago24hr2yr	14:30	0.817
TO_Chicago24hr2yr	14:40	0.801
TO_Chicago24hr2yr	14:50	0.785
TO_Chicago24hr2yr	15:00	0.769
TO_Chicago24hr2yr	15:10	0.755
TO_Chicago24hr2yr	15:20	0.741
TO_Chicago24hr2yr	15:30	0.727

TO_Chicago24hr2yr	15:40	0.715
TO_Chicago24hr2yr	15:50	0.702
TO_Chicago24hr2yr	16:00	0.69
TO_Chicago24hr2yr	16:10	0.679
TO_Chicago24hr2yr	16:20	0.668
TO_Chicago24hr2yr	16:30	0.657
TO_Chicago24hr2yr	16:40	0.647
TO_Chicago24hr2yr	16:50	0.637
TO_Chicago24hr2yr	17:00	0.627
TO_Chicago24hr2yr	17:10	0.618
TO_Chicago24hr2yr	17:20	0.609
TO_Chicago24hr2yr	17:30	0.6
TO_Chicago24hr2yr	17:40	0.592
TO_Chicago24hr2yr	17:50	0.584
TO_Chicago24hr2yr	18:00	0.576
TO_Chicago24hr2yr	18:10	0.568
TO_Chicago24hr2yr	18:20	0.561
TO_Chicago24hr2yr	18:30	0.553
TO_Chicago24hr2yr	18:40	0.546
TO_Chicago24hr2yr	18:50	0.54
TO_Chicago24hr2yr	19:00	0.533
TO_Chicago24hr2yr	19:10	0.527
TO_Chicago24hr2yr	19:20	0.52
TO_Chicago24hr2yr	19:30	0.514
TO_Chicago24hr2yr	19:40	0.508
TO_Chicago24hr2yr	19:50	0.502
TO_Chicago24hr2yr	20:00	0.497
TO_Chicago24hr2yr	20:10	0.491
TO_Chicago24hr2yr	20:20	0.486
TO_Chicago24hr2yr	20:30	0.48
TO_Chicago24hr2yr	20:40	0.475
TO_Chicago24hr2yr	20:50	0.47
TO_Chicago24hr2yr	21:00	0.465
TO_Chicago24hr2yr	21:10	0.461
TO_Chicago24hr2yr	21:20	0.456
TO_Chicago24hr2yr	21:30	0.451
TO_Chicago24hr2yr	21:40	0.447
TO_Chicago24hr2yr	21:50	0.443
TO_Chicago24hr2yr	22:00	0.438
TO_Chicago24hr2yr	22:10	0.434
TO_Chicago24hr2yr	22:20	0.43
TO_Chicago24hr2yr	22:30	0.426
TO_Chicago24hr2yr	22:40	0.422
TO_Chicago24hr2yr	22:50	0.418
TO_Chicago24hr2yr	23:00	0.414
TO_Chicago24hr2yr	23:10	0.411

TO_Chicago24hr2yr	23:20	0.407
TO_Chicago24hr2yr	23:30	0.404
TO_Chicago24hr2yr	23:40	0.4
TO_Chicago24hr2yr	23:50	0.397
TO_Chicago24hr2yr	24:00	0

;Chicago design storm, a = 1960, b = 5.8, c = 0.861, Duration = 1440 minutes, r = 0.33, rain units = mm/hr.

TO_Chicago24hr50yr	0:00	0.536
TO_Chicago24hr50yr	0:10	0.546
TO_Chicago24hr50yr	0:20	0.557
TO_Chicago24hr50yr	0:30	0.568
TO_Chicago24hr50yr	0:40	0.58
TO_Chicago24hr50yr	0:50	0.592
TO_Chicago24hr50yr	1:00	0.605
TO_Chicago24hr50yr	1:10	0.618
TO_Chicago24hr50yr	1:20	0.632
TO_Chicago24hr50yr	1:30	0.647
TO_Chicago24hr50yr	1:40	0.662
TO_Chicago24hr50yr	1:50	0.679
TO_Chicago24hr50yr	2:00	0.696
TO_Chicago24hr50yr	2:10	0.714
TO_Chicago24hr50yr	2:20	0.733
TO_Chicago24hr50yr	2:30	0.753
TO_Chicago24hr50yr	2:40	0.775
TO_Chicago24hr50yr	2:50	0.798
TO_Chicago24hr50yr	3:00	0.823
TO_Chicago24hr50yr	3:10	0.849
TO_Chicago24hr50yr	3:20	0.877
TO_Chicago24hr50yr	3:30	0.907
TO_Chicago24hr50yr	3:40	0.94
TO_Chicago24hr50yr	3:50	0.975
TO_Chicago24hr50yr	4:00	1.013
TO_Chicago24hr50yr	4:10	1.054
TO_Chicago24hr50yr	4:20	1.1
TO_Chicago24hr50yr	4:30	1.149
TO_Chicago24hr50yr	4:40	1.204
TO_Chicago24hr50yr	4:50	1.265
TO_Chicago24hr50yr	5:00	1.333
TO_Chicago24hr50yr	5:10	1.409
TO_Chicago24hr50yr	5:20	1.495
TO_Chicago24hr50yr	5:30	1.593
TO_Chicago24hr50yr	5:40	1.706
TO_Chicago24hr50yr	5:50	1.839
TO_Chicago24hr50yr	6:00	1.995
TO_Chicago24hr50yr	6:10	2.182
TO_Chicago24hr50yr	6:20	2.412

TO_Chicago24hr50yr	6:30	2.701
TO_Chicago24hr50yr	6:40	3.075
TO_Chicago24hr50yr	6:50	3.578
TO_Chicago24hr50yr	7:00	4.295
TO_Chicago24hr50yr	7:10	5.399
TO_Chicago24hr50yr	7:20	7.321
TO_Chicago24hr50yr	7:30	11.493
TO_Chicago24hr50yr	7:40	27.006
TO_Chicago24hr50yr	7:50	182.059
TO_Chicago24hr50yr	8:00	55.583
TO_Chicago24hr50yr	8:10	26.19
TO_Chicago24hr50yr	8:20	16.204
TO_Chicago24hr50yr	8:30	11.657
TO_Chicago24hr50yr	8:40	9.093
TO_Chicago24hr50yr	8:50	7.458
TO_Chicago24hr50yr	9:00	6.329
TO_Chicago24hr50yr	9:10	5.502
TO_Chicago24hr50yr	9:20	4.872
TO_Chicago24hr50yr	9:30	4.376
TO_Chicago24hr50yr	9:40	3.974
TO_Chicago24hr50yr	9:50	3.644
TO_Chicago24hr50yr	10:00	3.366
TO_Chicago24hr50yr	10:10	3.129
TO_Chicago24hr50yr	10:20	2.925
TO_Chicago24hr50yr	10:30	2.748
TO_Chicago24hr50yr	10:40	2.592
TO_Chicago24hr50yr	10:50	2.453
TO_Chicago24hr50yr	11:00	2.33
TO_Chicago24hr50yr	11:10	2.219
TO_Chicago24hr50yr	11:20	2.118
TO_Chicago24hr50yr	11:30	2.027
TO_Chicago24hr50yr	11:40	1.944
TO_Chicago24hr50yr	11:50	1.868
TO_Chicago24hr50yr	12:00	1.798
TO_Chicago24hr50yr	12:10	1.734
TO_Chicago24hr50yr	12:20	1.674
TO_Chicago24hr50yr	12:30	1.618
TO_Chicago24hr50yr	12:40	1.566
TO_Chicago24hr50yr	12:50	1.518
TO_Chicago24hr50yr	13:00	1.473
TO_Chicago24hr50yr	13:10	1.431
TO_Chicago24hr50yr	13:20	1.391
TO_Chicago24hr50yr	13:30	1.353
TO_Chicago24hr50yr	13:40	1.318
TO_Chicago24hr50yr	13:50	1.284
TO_Chicago24hr50yr	14:00	1.252

TO_Chicago24hr50yr	14:10	1.222
TO_Chicago24hr50yr	14:20	1.194
TO_Chicago24hr50yr	14:30	1.167
TO_Chicago24hr50yr	14:40	1.141
TO_Chicago24hr50yr	14:50	1.116
TO_Chicago24hr50yr	15:00	1.092
TO_Chicago24hr50yr	15:10	1.07
TO_Chicago24hr50yr	15:20	1.048
TO_Chicago24hr50yr	15:30	1.028
TO_Chicago24hr50yr	15:40	1.008
TO_Chicago24hr50yr	15:50	0.989
TO_Chicago24hr50yr	16:00	0.971
TO_Chicago24hr50yr	16:10	0.953
TO_Chicago24hr50yr	16:20	0.937
TO_Chicago24hr50yr	16:30	0.92
TO_Chicago24hr50yr	16:40	0.905
TO_Chicago24hr50yr	16:50	0.89
TO_Chicago24hr50yr	17:00	0.875
TO_Chicago24hr50yr	17:10	0.861
TO_Chicago24hr50yr	17:20	0.848
TO_Chicago24hr50yr	17:30	0.834
TO_Chicago24hr50yr	17:40	0.822
TO_Chicago24hr50yr	17:50	0.81
TO_Chicago24hr50yr	18:00	0.798
TO_Chicago24hr50yr	18:10	0.786
TO_Chicago24hr50yr	18:20	0.775
TO_Chicago24hr50yr	18:30	0.764
TO_Chicago24hr50yr	18:40	0.754
TO_Chicago24hr50yr	18:50	0.744
TO_Chicago24hr50yr	19:00	0.734
TO_Chicago24hr50yr	19:10	0.724
TO_Chicago24hr50yr	19:20	0.715
TO_Chicago24hr50yr	19:30	0.706
TO_Chicago24hr50yr	19:40	0.697
TO_Chicago24hr50yr	19:50	0.688
TO_Chicago24hr50yr	20:00	0.68
TO_Chicago24hr50yr	20:10	0.672
TO_Chicago24hr50yr	20:20	0.664
TO_Chicago24hr50yr	20:30	0.656
TO_Chicago24hr50yr	20:40	0.648
TO_Chicago24hr50yr	20:50	0.641
TO_Chicago24hr50yr	21:00	0.634
TO_Chicago24hr50yr	21:10	0.627
TO_Chicago24hr50yr	21:20	0.62
TO_Chicago24hr50yr	21:30	0.613
TO_Chicago24hr50yr	21:40	0.607

TO_Chicago24hr50yr	21:50	0.6
TO_Chicago24hr50yr	22:00	0.594
TO_Chicago24hr50yr	22:10	0.588
TO_Chicago24hr50yr	22:20	0.582
TO_Chicago24hr50yr	22:30	0.576
TO_Chicago24hr50yr	22:40	0.57
TO_Chicago24hr50yr	22:50	0.565
TO_Chicago24hr50yr	23:00	0.559
TO_Chicago24hr50yr	23:10	0.554
TO_Chicago24hr50yr	23:20	0.549
TO_Chicago24hr50yr	23:30	0.543
TO_Chicago24hr50yr	23:40	0.538
TO_Chicago24hr50yr	23:50	0.533
TO_Chicago24hr50yr	24:00	0

;Chicago design storm, a = 1170, b = 5.8, c = 0.843, Duration = 1440 minutes, r = 0.33, rain units = mm/hr.

TO_Chicago24hr5yr	0:00	0.411
TO_Chicago24hr5yr	0:10	0.418
TO_Chicago24hr5yr	0:20	0.426
TO_Chicago24hr5yr	0:30	0.435
TO_Chicago24hr5yr	0:40	0.443
TO_Chicago24hr5yr	0:50	0.452
TO_Chicago24hr5yr	1:00	0.462
TO_Chicago24hr5yr	1:10	0.472
TO_Chicago24hr5yr	1:20	0.482
TO_Chicago24hr5yr	1:30	0.493
TO_Chicago24hr5yr	1:40	0.505
TO_Chicago24hr5yr	1:50	0.517
TO_Chicago24hr5yr	2:00	0.529
TO_Chicago24hr5yr	2:10	0.543
TO_Chicago24hr5yr	2:20	0.557
TO_Chicago24hr5yr	2:30	0.572
TO_Chicago24hr5yr	2:40	0.588
TO_Chicago24hr5yr	2:50	0.605
TO_Chicago24hr5yr	3:00	0.623
TO_Chicago24hr5yr	3:10	0.643
TO_Chicago24hr5yr	3:20	0.663
TO_Chicago24hr5yr	3:30	0.686
TO_Chicago24hr5yr	3:40	0.71
TO_Chicago24hr5yr	3:50	0.735
TO_Chicago24hr5yr	4:00	0.763
TO_Chicago24hr5yr	4:10	0.794
TO_Chicago24hr5yr	4:20	0.827
TO_Chicago24hr5yr	4:30	0.863
TO_Chicago24hr5yr	4:40	0.903
TO_Chicago24hr5yr	4:50	0.948

TO_Chicago24hr5yr	5:00	0.997
TO_Chicago24hr5yr	5:10	1.052
TO_Chicago24hr5yr	5:20	1.115
TO_Chicago24hr5yr	5:30	1.186
TO_Chicago24hr5yr	5:40	1.268
TO_Chicago24hr5yr	5:50	1.363
TO_Chicago24hr5yr	6:00	1.475
TO_Chicago24hr5yr	6:10	1.609
TO_Chicago24hr5yr	6:20	1.773
TO_Chicago24hr5yr	6:30	1.977
TO_Chicago24hr5yr	6:40	2.241
TO_Chicago24hr5yr	6:50	2.594
TO_Chicago24hr5yr	7:00	3.093
TO_Chicago24hr5yr	7:10	3.855
TO_Chicago24hr5yr	7:20	5.164
TO_Chicago24hr5yr	7:30	7.957
TO_Chicago24hr5yr	7:40	18.036
TO_Chicago24hr5yr	7:50	114.214
TO_Chicago24hr5yr	8:00	36.19
TO_Chicago24hr5yr	8:10	17.539
TO_Chicago24hr5yr	8:20	11.065
TO_Chicago24hr5yr	8:30	8.069
TO_Chicago24hr5yr	8:40	6.359
TO_Chicago24hr5yr	8:50	5.258
TO_Chicago24hr5yr	9:00	4.491
TO_Chicago24hr5yr	9:10	3.926
TO_Chicago24hr5yr	9:20	3.492
TO_Chicago24hr5yr	9:30	3.149
TO_Chicago24hr5yr	9:40	2.871
TO_Chicago24hr5yr	9:50	2.64
TO_Chicago24hr5yr	10:00	2.446
TO_Chicago24hr5yr	10:10	2.279
TO_Chicago24hr5yr	10:20	2.136
TO_Chicago24hr5yr	10:30	2.01
TO_Chicago24hr5yr	10:40	1.9
TO_Chicago24hr5yr	10:50	1.802
TO_Chicago24hr5yr	11:00	1.714
TO_Chicago24hr5yr	11:10	1.635
TO_Chicago24hr5yr	11:20	1.563
TO_Chicago24hr5yr	11:30	1.498
TO_Chicago24hr5yr	11:40	1.439
TO_Chicago24hr5yr	11:50	1.384
TO_Chicago24hr5yr	12:00	1.334
TO_Chicago24hr5yr	12:10	1.287
TO_Chicago24hr5yr	12:20	1.244
TO_Chicago24hr5yr	12:30	1.204

TO_Chicago24hr5yr	12:40	1.167
TO_Chicago24hr5yr	12:50	1.132
TO_Chicago24hr5yr	13:00	1.099
TO_Chicago24hr5yr	13:10	1.068
TO_Chicago24hr5yr	13:20	1.039
TO_Chicago24hr5yr	13:30	1.012
TO_Chicago24hr5yr	13:40	0.986
TO_Chicago24hr5yr	13:50	0.962
TO_Chicago24hr5yr	14:00	0.939
TO_Chicago24hr5yr	14:10	0.917
TO_Chicago24hr5yr	14:20	0.896
TO_Chicago24hr5yr	14:30	0.876
TO_Chicago24hr5yr	14:40	0.857
TO_Chicago24hr5yr	14:50	0.839
TO_Chicago24hr5yr	15:00	0.822
TO_Chicago24hr5yr	15:10	0.805
TO_Chicago24hr5yr	15:20	0.79
TO_Chicago24hr5yr	15:30	0.774
TO_Chicago24hr5yr	15:40	0.76
TO_Chicago24hr5yr	15:50	0.746
TO_Chicago24hr5yr	16:00	0.733
TO_Chicago24hr5yr	16:10	0.72
TO_Chicago24hr5yr	16:20	0.707
TO_Chicago24hr5yr	16:30	0.695
TO_Chicago24hr5yr	16:40	0.684
TO_Chicago24hr5yr	16:50	0.673
TO_Chicago24hr5yr	17:00	0.662
TO_Chicago24hr5yr	17:10	0.652
TO_Chicago24hr5yr	17:20	0.642
TO_Chicago24hr5yr	17:30	0.632
TO_Chicago24hr5yr	17:40	0.623
TO_Chicago24hr5yr	17:50	0.614
TO_Chicago24hr5yr	18:00	0.605
TO_Chicago24hr5yr	18:10	0.596
TO_Chicago24hr5yr	18:20	0.588
TO_Chicago24hr5yr	18:30	0.58
TO_Chicago24hr5yr	18:40	0.572
TO_Chicago24hr5yr	18:50	0.565
TO_Chicago24hr5yr	19:00	0.558
TO_Chicago24hr5yr	19:10	0.55
TO_Chicago24hr5yr	19:20	0.544
TO_Chicago24hr5yr	19:30	0.537
TO_Chicago24hr5yr	19:40	0.53
TO_Chicago24hr5yr	19:50	0.524
TO_Chicago24hr5yr	20:00	0.518
TO_Chicago24hr5yr	20:10	0.512

TO_Chicago24hr5yr	20:20	0.506
TO_Chicago24hr5yr	20:30	0.5
TO_Chicago24hr5yr	20:40	0.494
TO_Chicago24hr5yr	20:50	0.489
TO_Chicago24hr5yr	21:00	0.483
TO_Chicago24hr5yr	21:10	0.478
TO_Chicago24hr5yr	21:20	0.473
TO_Chicago24hr5yr	21:30	0.468
TO_Chicago24hr5yr	21:40	0.463
TO_Chicago24hr5yr	21:50	0.458
TO_Chicago24hr5yr	22:00	0.454
TO_Chicago24hr5yr	22:10	0.449
TO_Chicago24hr5yr	22:20	0.445
TO_Chicago24hr5yr	22:30	0.44
TO_Chicago24hr5yr	22:40	0.436
TO_Chicago24hr5yr	22:50	0.432
TO_Chicago24hr5yr	23:00	0.428
TO_Chicago24hr5yr	23:10	0.424
TO_Chicago24hr5yr	23:20	0.42
TO_Chicago24hr5yr	23:30	0.416
TO_Chicago24hr5yr	23:40	0.412
TO_Chicago24hr5yr	23:50	0.409
TO_Chicago24hr5yr	24:00	0

[REPORT]

INPUT YES
CONTROLS NO
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

Subcatch	403IC	ROW
Subcatch	ApplebyBus	COB
Subcatch	ApplebyP	COB
Subcatch	ApplebyPd	COB
Subcatch	BR02	ROW
Subcatch	Britannia_Ext	COM
Subcatch	BritanniaBus	COM
Subcatch	BritanniaP1	COM
Subcatch	BritPond	COM
Subcatch	BronteP	TO
Subcatch	BrPond	TO
Subcatch	BU02	ROW
Subcatch	BU04	ROW
Subcatch	BU04-Ex	COB

Subcatch	BU05	ROW
Subcatch	BU06	ROW
Subcatch	BU07	ROW
Subcatch	BU08	ROW
Subcatch	BU09	ROW
Subcatch	BU10	ROW
Subcatch	BU11	ROW
Subcatch	DdPd	COB
Subcatch	Derry_Bus	COM
Subcatch	Derry_ExtS	COM
Subcatch	Derry_P1	COM
Subcatch	Derry_P2	COM
Subcatch	Derry_Pond	COM
Subcatch	DundasExt	COB
Subcatch	DundasParking	COB
Subcatch	F03	ROW
Subcatch	F03-ROW_out	ROW
Subcatch	L01	ROWp
Subcatch	Lisgar	ROW
Subcatch	LisgarExt	COM
Subcatch	LisgarParking	COM
Subcatch	LisgarPd	COM
Subcatch	M01	ROW
Subcatch	MissParking	COM
Subcatch	MissPond	COM
Subcatch	N01	ROWp
Subcatch	NP01	ROW
Subcatch	OE01	ROW
Subcatch	OE02	ROW
Subcatch	OE03	ROW
Subcatch	OE04	ROW
Subcatch	OE05	ROW
Subcatch	OW01	ROW
Subcatch	OW02	ROW
Subcatch	OW04	ROW
Subcatch	OW05	ROW
Subcatch	OW06	ROW
Subcatch	OW07	ROW
Subcatch	OW11	ROW
Subcatch	S02	ROW
Subcatch	S03	ROW
Subcatch	S-E01	ROW
Subcatch	S-E03	ROW
Subcatch	TfgPond	TO
Subcatch	TrafalgarAcc	TO
Subcatch	TrafalgarBus	TO

Subcatch TrafalgarP1 TO

[MAP]
DIMENSIONS 274568.94935 4798711.79865 287945.95365 4836224.49035
UNITS Meters

[COORDINATES]

;;Node	X-Coord	Y-Coord
;;-----	-----	-----
J2	277915.373	4800957.473
J3	277646.878	4804462.022
J4	277758.814	4804466.879
J5	277877.864	4804476.151
J6	277661.913	4804692.005
J7	280022.995	4810081.177
ABESC	278613.436	4808239.023
ABWQ	278626.411	4808244.435
Brit	284170.174	4823441.841
BritESC	284159.98	4823441.377
BritEx	283737.158	4823803.84
BronteCtrl	281719.025	4811879.973
BronteESC	281707.082	4811878.267
BronteOverflo	281730.968	4811881.679
DerryESC	281489.596	4826003.6
DerryOverflo	281502.942	4826003.6
DerryQCtrl	281496.09	4826003.772
LisgarLID	281347.833	4827863.327
LisgarOF	281358.791	4827832.447
LisgarOverflo	281365.265	4827832.066
OF1	278153.379	4805626.913
OF2	278143.278	4805651.87
OF3	284177.589	4823442.768
OF4	278150.898	4804489.431
OF5	283424.897	4830856.397
OF6	283432.752	4830867.947
OF7	283428.452	4830876.212
OF8	277929.006	4800416.921
OW02OF	280301.437	4810301.9
TfgESC	284923.962	4818330.603
TfgOut	284937.001	4818340.61
TfgSpill	284930.878	4818335.302
TWY4OF	281080.16	4819922.265
ApplebyPond	278612.477	4808256.048
BritanniaPond	284155.809	4823462.231
BrontePond	281709.642	4811897.461
DerryPond	281493.207	4826013.111

DundasPond	278121.484	4805630.86
LisgarPond	281358.791	4827851.109
MsPond	283407.803	4830866.561
TrafalgarPond	284914.384	4818341.805

[VERTICES]

;;Link	X-Coord	Y-Coord
;;-----	-----	-----
C4	277730.897	4804594.302
C4	277751.042	4804516.227
C6	280041.965	4810117.958
C6	280061.594	4810144.3
C6	280085.406	4810169.932
C6	280109.9	4810191.391
C6	280137.876	4810211.447
C6	280169.32	4810225.929
C6	280195.871	4810237.649
C6	280235.672	4810248.626
C6	280260.797	4810252.01
OR4	281704.998	4811886.727
W1	284923.612	4818339.274
W2	281499.971	4826011.94
W3	281495.472	4826009.179
W9	281367.169	4827843.492

[POLYGONS]

;;Subcatchment	X-Coord	Y-Coord
;;-----	-----	-----
403IC	285767.485	4819795.893
403IC	285720.32	4819833.11
403IC	286182.229	4820360.072
403IC	286182.23	4820360.073
403IC	286183.715	4820361.767
403IC	286183.717	4820361.77
403IC	286185.2	4820363.463
403IC	286186.681	4820365.153
403IC	286188.158	4820366.842
403IC	286189.632	4820368.528
403IC	286191.102	4820370.212
403IC	286192.568	4820371.894
403IC	286194.029	4820373.574
403IC	286195.486	4820375.253
403IC	286196.937	4820376.93
403IC	286198.384	4820378.607
403IC	286199.826	4820380.282
403IC	286201.262	4820381.957

403IC	286202.692	4820383.631
403IC	286204.117	4820385.304
403IC	286205.535	4820386.978
403IC	286206.947	4820388.651
403IC	286208.352	4820390.325
403IC	286209.75	4820391.998
403IC	286211.141	4820393.673
403IC	286212.525	4820395.348
403IC	286213.902	4820397.024
403IC	286215.27	4820398.7
403IC	286216.631	4820400.378
403IC	286217.984	4820402.057
403IC	286219.328	4820403.738
403IC	286220.663	4820405.42
403IC	286221.99	4820407.104
403IC	286223.307	4820408.79
403IC	286224.615	4820410.477
403IC	286225.775	4820411.987
403IC	286236.079	4820425.95
403IC	286245.765	4820440.073
403IC	286254.956	4820454.523
403IC	286263.642	4820469.281
403IC	286271.813	4820484.332
403IC	286279.458	4820499.656
403IC	286286.568	4820515.236
403IC	286293.135	4820531.052
403IC	286299.151	4820547.086
403IC	286304.609	4820563.318
403IC	286309.502	4820579.729
403IC	286313.824	4820596.3
403IC	286317.57	4820613.01
403IC	286320.737	4820629.84
403IC	286323.319	4820646.77
403IC	286325.314	4820663.778
403IC	286326.72	4820680.846
403IC	286327.534	4820697.952
403IC	286327.756	4820715.076
403IC	286327.386	4820732.197
403IC	286326.423	4820749.295
403IC	286324.849	4820766.576
403IC	286324.64	4820768.469
403IC	286324.396	4820770.59
403IC	286324.143	4820772.715
403IC	286323.881	4820774.842
403IC	286323.611	4820776.973
403IC	286323.333	4820779.107

403IC	286323.047	4820781.244
403IC	286322.753	4820783.384
403IC	286322.452	4820785.528
403IC	286322.143	4820787.674
403IC	286321.828	4820789.824
403IC	286321.506	4820791.977
403IC	286321.178	4820794.133
403IC	286320.844	4820796.292
403IC	286320.504	4820798.455
403IC	286320.158	4820800.622
403IC	286319.808	4820802.791
403IC	286319.452	4820804.964
403IC	286319.092	4820807.141
403IC	286318.728	4820809.32
403IC	286318.359	4820811.504
403IC	286317.987	4820813.691
403IC	286317.612	4820815.882
403IC	286317.233	4820818.076
403IC	286316.852	4820820.274
403IC	286316.468	4820822.476
403IC	286316.081	4820824.682
403IC	286315.693	4820826.892
403IC	286315.303	4820829.105
403IC	286314.912	4820831.321
403IC	286314.911	4820831.325
403IC	286314.52	4820833.544
403IC	286314.52	4820833.544
403IC	286298.318	4820925.286
403IC	286298.318	4820925.286
403IC	286297.926	4820927.505
403IC	286297.926	4820927.509
403IC	286297.534	4820929.725
403IC	286297.142	4820931.938
403IC	286296.75	4820934.147
403IC	286296.358	4820936.352
403IC	286295.964	4820938.552
403IC	286295.57	4820940.748
403IC	286295.174	4820942.939
403IC	286294.776	4820945.126
403IC	286294.377	4820947.308
403IC	286293.975	4820949.486
403IC	286293.571	4820951.659
403IC	286293.164	4820953.827
403IC	286292.753	4820955.99
403IC	286292.34	4820958.149
403IC	286291.922	4820960.302

403IC	286291.501	4820962.451
403IC	286291.075	4820964.594
403IC	286290.645	4820966.732
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403IC	286289.77	4820970.993
403IC	286289.325	4820973.115
403IC	286288.873	4820975.232
403IC	286288.417	4820977.344
403IC	286287.954	4820979.449
403IC	286287.484	4820981.549
403IC	286287.008	4820983.644
403IC	286286.525	4820985.732
403IC	286286.035	4820987.815
403IC	286285.537	4820989.891
403IC	286285.086	4820991.742
403IC	286280.663	4821008.455
403IC	286275.733	4821024.788
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403IC	286264.199	4821056.897
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403IC	286250.48	4821088.135
403IC	286242.821	4821103.381
403IC	286234.642	4821118.354
403IC	286225.952	4821133.036
403IC	286216.76	4821147.41
403IC	286207.079	4821161.458
403IC	286196.785	4821175.347
403IC	286195.621	4821176.855
403IC	286194.309	4821178.54
403IC	286192.988	4821180.223
403IC	286191.658	4821181.905
403IC	286190.319	4821183.584
403IC	286188.972	4821185.262
403IC	286187.616	4821186.938
403IC	286186.252	4821188.613
403IC	286184.88	4821190.287
403IC	286183.5	4821191.96
403IC	286182.113	4821193.632
403IC	286180.718	4821195.304
403IC	286179.316	4821196.975
403IC	286177.908	4821198.645
403IC	286176.492	4821200.316
403IC	286175.071	4821201.986
403IC	286173.643	4821203.657
403IC	286172.209	4821205.328
403IC	286170.77	4821207

403IC	286169.325	4821208.672
403IC	286167.874	4821210.345
403IC	286166.419	4821212.02
403IC	286164.959	4821213.696
403IC	286163.494	4821215.373
403IC	286162.025	4821217.052
403IC	286160.552	4821218.733
403IC	286159.075	4821220.416
403IC	286157.594	4821222.101
403IC	286156.109	4821223.789
403IC	286154.623	4821225.478
403IC	286154.621	4821225.481
403IC	286153.132	4821227.173
403IC	286153.131	4821227.173
403IC	286060.195	4821332.761
403IC	286060.194	4821332.761
403IC	286058.812	4821334.332
403IC	286058.809	4821334.335
403IC	286057.43	4821335.901
403IC	286057.426	4821335.906
403IC	286056.048	4821337.471
403IC	286054.669	4821339.035
403IC	286053.292	4821340.596
403IC	286051.916	4821342.153
403IC	286050.542	4821343.707
403IC	286049.168	4821345.258
403IC	286047.796	4821346.805
403IC	286046.424	4821348.347
403IC	286045.052	4821349.886
403IC	286043.681	4821351.421
403IC	286042.31	4821352.951
403IC	286040.939	4821354.477
403IC	286039.568	4821355.998
403IC	286038.197	4821357.514
403IC	286036.825	4821359.025
403IC	286035.452	4821360.531
403IC	286034.079	4821362.032
403IC	286032.705	4821363.527
403IC	286031.33	4821365.017
403IC	286029.953	4821366.501
403IC	286028.576	4821367.979
403IC	286027.196	4821369.451
403IC	286025.815	4821370.917
403IC	286024.432	4821372.376
403IC	286023.048	4821373.829
403IC	286021.661	4821375.276

403IC	286020.272	4821376.715
403IC	286018.881	4821378.148
403IC	286017.611	4821379.446
403IC	286006.496	4821390.47
403IC	285995.215	4821401.067
403IC	285983.651	4821411.353
403IC	285971.677	4821421.436
403IC	285970.269	4821422.584
403IC	285968.718	4821423.842
403IC	285967.16	4821425.096
403IC	285965.595	4821426.348
403IC	285964.024	4821427.597
403IC	285962.446	4821428.844
403IC	285960.863	4821430.088
403IC	285959.273	4821431.33
403IC	285957.678	4821432.57
403IC	285956.076	4821433.808
403IC	285954.469	4821435.044
403IC	285952.857	4821436.279
403IC	285951.239	4821437.512
403IC	285949.617	4821438.744
403IC	285947.989	4821439.975
403IC	285946.356	4821441.205
403IC	285944.718	4821442.435
403IC	285943.076	4821443.664
403IC	285941.429	4821444.892
403IC	285939.778	4821446.12
403IC	285938.122	4821447.348
403IC	285936.463	4821448.577
403IC	285934.799	4821449.805
403IC	285933.132	4821451.034
403IC	285931.461	4821452.264
403IC	285929.787	4821453.495
403IC	285928.109	4821454.727
403IC	285926.427	4821455.96
403IC	285924.746	4821457.192
403IC	285924.74	4821457.196
403IC	285923.057	4821458.429
403IC	285923.054	4821458.431
403IC	285921.366	4821459.668
403IC	285921.365	4821459.668
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403IC	285217.887	4821974.841
403IC	285217.887	4821974.841
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403IC	285215.804	4821976.366

403IC	285215.803	4821976.367
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403IC	285205.369	4821984.017
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403IC	285203.271	4821985.56
403IC	285203.264	4821985.565
403IC	285201.185	4821987.095
403IC	285201.177	4821987.101
403IC	285201.169	4821987.106
403IC	285199.092	4821988.637
403IC	285199.083	4821988.644
403IC	285199.074	4821988.651
403IC	285196.997	4821990.183
403IC	285196.987	4821990.191
403IC	285196.977	4821990.198
403IC	285194.902	4821991.732
403IC	285194.891	4821991.741
403IC	285194.88	4821991.749
403IC	285192.807	4821993.285
403IC	285192.795	4821993.294
403IC	285192.782	4821993.303
403IC	285190.71	4821994.841
403IC	285190.697	4821994.851
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403IC	285188.614	4821996.401
403IC	285188.6	4821996.411
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403IC	285186.487	4821997.987
403IC	285184.421	4821999.533
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403IC	285184.389	4821999.557

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403IC	285182.307	4822001.118
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403IC	285180.192	4822002.709
403IC	285178.132	4822004.263
403IC	285178.113	4822004.277
403IC	285178.094	4822004.291
403IC	285176.036	4822005.849
403IC	285176.016	4822005.864
403IC	285175.996	4822005.879
403IC	285173.941	4822007.44
403IC	285173.92	4822007.456
403IC	285173.899	4822007.472
403IC	285171.847	4822009.036
403IC	285171.825	4822009.053
403IC	285171.803	4822009.07
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403IC	285169.708	4822010.673
403IC	285167.662	4822012.245
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403IC	285167.614	4822012.282
403IC	285165.571	4822013.858
403IC	285165.546	4822013.877
403IC	285165.522	4822013.896
403IC	285163.482	4822015.477
403IC	285163.456	4822015.496
403IC	285163.43	4822015.516
403IC	285161.394	4822017.101
403IC	285161.367	4822017.122
403IC	285161.341	4822017.143
403IC	285159.308	4822018.732
403IC	285159.28	4822018.754
403IC	285159.253	4822018.775
403IC	285157.223	4822020.37
403IC	285157.195	4822020.392
403IC	285157.166	4822020.414
403IC	285155.141	4822022.014
403IC	285155.112	4822022.037
403IC	285155.082	4822022.06
403IC	285153.061	4822023.664
403IC	285152.839	4822023.84
403IC	285152.621	4822024.02
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403IC	285181.548	4822077.937
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403IC	285192.35	4822069.082
403IC	285194.318	4822067.529
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403IC	285200.255	4822062.887
403IC	285202.244	4822061.346
403IC	285204.239	4822059.807
403IC	285206.239	4822058.27
403IC	285208.244	4822056.736
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403IC	285224.444	4822044.528
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403IC	285251.256	4822024.773
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403IC	285961.899	4821504.352

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ApplebyBus	278500.889	4808340.334
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ApplebyP	278583.378	4808271.206

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BR02	279709.859	4809544.098
BR02	279711.21	4809545.69
BR02	279711.214	4809545.695
BR02	279712.564	4809547.286
BR02	279713.914	4809548.878
BR02	279715.262	4809550.469
BR02	279716.607	4809552.057
BR02	279717.95	4809553.645
BR02	279719.29	4809555.231
BR02	279720.627	4809556.817
BR02	279721.96	4809558.401
BR02	279723.291	4809559.984
BR02	279724.619	4809561.567
BR02	279725.943	4809563.149
BR02	279727.263	4809564.731
BR02	279728.58	4809566.312
BR02	279729.892	4809567.893
BR02	279731.201	4809569.473
BR02	279732.506	4809571.054
BR02	279733.806	4809572.634
BR02	279735.102	4809574.215
BR02	279736.394	4809575.796
BR02	279737.68	4809577.377
BR02	279738.962	4809578.959
BR02	279740.239	4809580.541
BR02	279741.511	4809582.124
BR02	279742.777	4809583.708
BR02	279744.038	4809585.292
BR02	279745.294	4809586.878
BR02	279746.543	4809588.464
BR02	279747.787	4809590.052
BR02	279748.879	4809591.453
BR02	279763.968	4809611.583
BR02	279778.215	4809632.027
BR02	279791.747	4809652.952
BR02	279804.668	4809674.538
BR02	279805.552	4809676.078
BR02	279806.384	4809677.539
Britannia_Ext	283822.105	4823740.379
Britannia_Ext	283752.945	4823809.682
Britannia_Ext	283803.326	4823869.121
Britannia_Ext	283872.548	4823799.643
Britannia_Ext	283921.945	4823750.063

Britannia_Ext	283868.071	4823694.318
Britannia_Ext	283822.105	4823740.379
BritanniaBus	283868.071	4823694.318
BritanniaBus	283921.945	4823750.063
BritanniaBus	284042.176	4823629.266
BritanniaBus	283987.308	4823574.907
BritanniaBus	283868.071	4823694.318
BritanniaPl	284079.438	4823515.645
BritanniaPl	284156.122	4823438.961
BritanniaPl	284141.062	4823420.761
BritanniaPl	283987.308	4823574.907
BritanniaPl	284042.176	4823629.266
BritanniaPl	284076.387	4823595.051
BritanniaPl	284117.115	4823554.173
BritanniaPl	284079.438	4823515.645
BritPond	284079.438	4823515.645
BritPond	284117.115	4823554.173
BritPond	284135.043	4823536.179
BritPond	284190.502	4823480.513
BritPond	284159.363	4823442.879
BritPond	284156.122	4823438.961
BritPond	284079.438	4823515.645
BronteP	281577.171	4811880.59
BronteP	281576.773	4811877.168
BronteP	281564.784	4811875.989
BronteP	281563.015	4811915.627
BronteP	281567.262	4811992.071
BronteP	281578.233	4812052.59
BronteP	281785.624	4811998.442
BronteP	281782.439	4811992.779
BronteP	281776.776	4811984.285
BronteP	281771.114	4811977.915
BronteP	281742.447	4811959.866
BronteP	281717.673	4811950.31
BronteP	281593.805	4811896.516
BronteP	281584.249	4811888.73
BronteP	281577.171	4811880.59

.....

Too many subcatchment entities (62 in total).

[SYMBOLS]

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;;Gage          X-Coord      Y-Coord
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OPEN STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.912)

Modified from official EPA SWMM5.1.012 by CHI

Modifications include: water age and seasonal hydrologic modeling and conduit max. volume statistics.

When not using the new seasonal modeling capabilities, this SWMM engine should produce output and report files identical to EPA SWMM5.1.012, warts and all. As such, this SWMM engine is provided "as is", without warranty of any kind, and should not be construed as an endorsement or validation of the output of either version. CHI accepts no liability for any direct or indirect loss arising out of its use.

For more information: <https://www.openswmm.org/OS51912>

Element Count

Number of rain gages 27
Number of subcatchments ... 62
Number of nodes 41
Number of links 27
Number of pollutants 0
Number of land uses 0

Raingage Summary

Name	Data Source	Data Type	Recording Interval
COB_SCSII24hr100yr	SCS_Type_II_105.32mm	INTENSITY	15 min.
COB_SCSII24hr10yr	COB_SCSII24hr10yr	INTENSITY	15 min.
COB_SCSII24hr25yr	COB_SCSII24hr25yr	INTENSITY	15 min.
COB_SCSII24hr2yr	COB_SCSII24hr2yr	INTENSITY	15 min.
COB_SCSII24hr50yr	COB_SCSII24hr50yr	INTENSITY	15 min.
COB_SCSII24hr5yr	COB_SCSII24hr5yr	INTENSITY	15 min.
COM_SCSII12hr100yr	COM_SCSII12hr100yr	INTENSITY	15 min.
COM_SCSII12hr10yr	COM_SCSII12hr10yr	INTENSITY	15 min.
COM_SCSII12hr25yr	COM_SCSII12hr25yr	INTENSITY	15 min.
COM_SCSII12hr2yr	COM_SCSII12hr2yr	INTENSITY	15 min.

COM_SCSII12hr50yr	COM_SCSII12hr50yr	INTENSITY	15 min.
COM_SCSII12hr5yr	COM_SCSII12hr5yr	INTENSITY	15 min.
COM_SCSII12hrCC	COM_SCSII12hrCC	INTENSITY	15 min.
Regional	Timeseries	INTENSITY	60 min.
TO_Chicago24hr100yr	TO_Chicago24hr100yr	INTENSITY	10 min.
TO_Chicago24hr10yr	TO_Chicago24hr10yr	INTENSITY	10 min.
TO_Chicago24hr25yr	TO_Chicago24hr25yr	INTENSITY	10 min.
TO_Chicago24hr2yr	TO_Chicago24hr2yr	INTENSITY	10 min.
TO_Chicago24hr50yr	TO_Chicago24hr50yr	INTENSITY	10 min.
TO_Chicago24hr5yr	TO_Chicago24hr5yr	INTENSITY	10 min.
TWY4_2094_100yrChi	Chicago_24h_100yr	INTENSITY	5 min.
TWY4_2094_100yrSCSII	SCS_Type_II_136.8mm	INTENSITY	15 min.
TWY4_2094_10yrSCSII	SCS_Type_II_98.4mm	INTENSITY	15 min.
TWY4_2094_25yrSCSII	SCS_Type_II_115.2mm	INTENSITY	15 min.
TWY4_2094_2yrSCSII	SCS_Type_II_69.6mm	INTENSITY	15 min.
TWY4_2094_50yrSCSII	SCS_Type_II_124.8mm	INTENSITY	15 min.
TWY4_2094_5yrSCSII	SCS_Type_II_86.4mm	INTENSITY	15 min.

Subcatchment Summary

Name	Area	Width	%Imperv	%Slope	Rain Gage	Outlet
403IC	17.96	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
ApplebyBus	0.56	50.00	95.00	0.5000	COB_SCSII24hr100yr	ApplebyPond
ApplebyP	1.31	100.00	100.00	2.0000	COB_SCSII24hr100yr	ApplebyPond
ApplebyPd	0.68	100.00	5.00	0.5000	COB_SCSII24hr100yr	ApplebyPond
BR02	13.27	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
Britannia_Ext	1.28	80.00	5.00	0.5000	COM_SCSII12hr100yr	BritEx
BritanniaBus	1.31	80.00	100.00	2.0000	COM_SCSII12hr100yr	BritanniaPond
BritanniaP1	1.08	80.00	95.00	2.0000	COM_SCSII12hr100yr	BritanniaPond
BritPond	0.57	80.00	75.00	0.5000	COM_SCSII12hr100yr	BritanniaPond
BronteP	2.06	80.00	100.00	2.0000	TO_Chicago24hr100yr	BrPond
BrPond	0.49	40.00	5.00	0.5000	TO_Chicago24hr100yr	BrontePond
BU02	2.45	50.00	61.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
BU04	5.59	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	J4
BU04-Ex	235.15	500.00	30.00	2.0000	COB_SCSII24hr100yr	J3
BU05	2.80	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
BU06	1.80	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
BU07	3.20	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
BU08	2.40	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
BU09	2.40	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
BU10	4.79	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
BU11	1.78	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
DdPd	0.83	60.00	75.00	0.5000	COB_SCSII24hr100yr	DundasPond

Derry_Bus	1.21	80.00	95.00	2.0000	COM_SCSII12hr100yr	DerryPond
Derry_ExtS	0.48	40.00	5.00	0.4000	COM_SCSII12hr100yr	DerryPond
Derry_P1	1.42	80.00	100.00	2.0000	COM_SCSII12hr100yr	DerryPond
Derry_P2	0.92	80.00	100.00	2.0000	COM_SCSII12hr100yr	DerryPond
Derry_Pond	0.55	80.00	75.00	2.0000	COM_SCSII12hr100yr	DerryPond
DundasExt	1.31	125.00	5.00	4.0000	COB_SCSII24hr100yr	DundasPond
DundasParking	4.03	150.00	95.00	2.0000	COB_SCSII24hr100yr	DundasPond
F03	3.70	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
F03-ROW_out	1.35	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
L01	12.00	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
Lisgar	28.23	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
LisgarExt	0.10	50.00	100.00	0.5000	COM_SCSII12hr100yr	LisgarPd
LisgarParking	0.65	40.00	100.00	2.0000	COM_SCSII12hr100yr	LisgarPd
LisgarPd	0.31	20.00	5.00	0.5000	COM_SCSII12hr100yr	LisgarLID
M01	8.42	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
MissParking	4.40	90.00	95.00	2.0000	COM_SCSII12hr100yr	MsPond
MissPond	1.18	30.00	75.00	0.5000	COM_SCSII12hr100yr	MsPond
N01	6.86	50.00	61.00	0.5000	TWY4_2094_100yrSCSII	J2
NP01	19.25	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
OE01	3.79	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
OE02	2.14	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
OE03	2.14	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
OE04	1.32	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
OE05	1.41	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
OW01	1.77	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
OW02	3.60	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	J7
OW02-Ex	22.14	500.00	10.00	4.0000	TWY4_2094_100yrSCSII	J7
OW04	3.00	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
OW05	1.48	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
OW06	1.94	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
OW07	4.98	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
OW11	7.79	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
S02	24.59	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
S03	14.43	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
S-E01	13.78	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
S-E03	19.22	50.00	27.00	0.5000	TWY4_2094_100yrSCSII	TWY4OF
TfgPond	1.35	50.00	75.00	2.0000	TO_Chicago24hr100yr	TrafalgarPond
TrafalgarAcc	0.82	50.00	95.00	2.0000	TO_Chicago24hr100yr	TrafalgarPond
TrafalgarBus	3.36	150.00	95.00	2.0000	TO_Chicago24hr100yr	TfgESC
TrafalgarP1	3.38	150.00	100.00	2.0000	TO_Chicago24hr100yr	TrafalgarPond

LID Control Summary

No. of	Unit	Unit	% Area	% Imperv
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Subcatchment	LID Control	Units	Area	Width	Covered	Treated
BR02	EnhancedSwale	1	19904.00	10.00	15.00	100.00
BU02	EnhancedSwale	1	3673.00	10.00	15.00	100.00
BU04	EnhancedSwale	1	8391.00	10.00	15.00	100.00
BU05	EnhancedSwale	1	4193.00	10.00	15.00	100.00
BU06	EnhancedSwale	1	2700.00	10.00	15.00	100.00
BU07	EnhancedSwale	1	4793.00	10.00	15.00	100.00
BU08	EnhancedSwale	1	3593.00	10.00	15.00	100.00
BU09	EnhancedSwale	1	3607.00	10.00	15.00	100.00
BU10	EnhancedSwale	1	7184.00	10.00	15.00	100.00
BU11	EnhancedSwale	1	2667.00	10.00	15.00	100.00
F03	EnhancedSwale	1	5546.00	10.00	15.00	100.00
L01	EnhancedSwale	1	17993.00	10.00	15.00	100.00
LisgarPd	DrySwale	1	3068.00	200.00	100.00	100.00
M01	EnhancedSwale	1	12634.00	10.00	15.00	100.00
N01	EnhancedSwale	1	10288.00	10.00	15.00	100.00
NP01	EnhancedSwale	1	28871.00	10.00	15.00	100.00
OE01	EnhancedSwale	1	5686.00	10.00	15.00	100.00
OE02	EnhancedSwale	1	3216.00	10.00	15.00	100.00
OE03	EnhancedSwale	1	3216.00	10.00	15.00	100.00
OE04	EnhancedSwale	1	1983.00	10.00	15.00	100.00
OE05	EnhancedSwale	1	2109.00	10.00	15.00	100.00
OW01	EnhancedSwale	1	2656.00	10.00	15.00	100.00
OW02	EnhancedSwale	1	5407.00	10.00	15.00	100.00
OW04	EnhancedSwale	1	4499.00	10.00	15.00	100.00
OW05	EnhancedSwale	1	2217.00	10.00	15.00	100.00
OW06	EnhancedSwale	1	2917.00	10.00	15.00	100.00
OW07	EnhancedSwale	1	7472.00	10.00	15.00	100.00
OW11	EnhancedSwale	1	11692.00	10.00	15.00	100.00
S02	EnhancedSwale	1	21653.00	10.00	8.81	100.00
S03	EnhancedSwale	1	36874.00	10.00	25.55	100.00
S-E01	EnhancedSwale	1	20677.00	10.00	15.00	100.00
S-E03	EnhancedSwale	1	28823.00	10.00	15.00	100.00

Node Summary

Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
J2	JUNCTION	116.00	1.20	0.0	
J3	JUNCTION	158.75	2.25	500.0	
J4	JUNCTION	152.96	3.04	100.0	
J5	JUNCTION	152.17	5.83	0.0	

J6	JUNCTION	153.26	2.00	50.0
J7	JUNCTION	155.40	2.00	500.0
ABESC	OUTFALL	163.00	0.00	0.0
ABWQ	OUTFALL	163.00	0.00	0.0
Brit	OUTFALL	188.50	0.00	0.0
BritESC	OUTFALL	188.50	0.00	0.0
BritEx	OUTFALL	188.50	0.00	0.0
BronteCtrl	OUTFALL	163.50	0.00	0.0
BronteESC	OUTFALL	163.50	0.00	0.0
BronteOverflo	OUTFALL	163.50	0.00	0.0
DerryESC	OUTFALL	199.00	0.00	0.0
DerryOverflo	OUTFALL	199.00	0.00	0.0
DerryQCtrl	OUTFALL	199.00	0.00	0.0
LisgarLID	OUTFALL	206.00	0.00	0.0
LisgarOF	OUTFALL	206.00	0.00	0.0
LisgarOverflo	OUTFALL	206.00	0.00	0.0
OF1	OUTFALL	155.00	0.00	0.0
OF2	OUTFALL	155.00	0.00	0.0
OF3	OUTFALL	188.50	0.00	0.0
OF4	OUTFALL	150.74	3.00	0.0
OF5	OUTFALL	182.00	0.00	0.0
OF6	OUTFALL	182.00	0.00	0.0
OF7	OUTFALL	185.00	0.00	0.0
OF8	OUTFALL	115.00	1.20	0.0
OW02OF	OUTFALL	155.00	1.65	0.0
TfgESC	OUTFALL	189.50	0.00	0.0
TfgOut	OUTFALL	189.50	0.00	0.0
TfgSpill	OUTFALL	189.50	0.00	0.0
TWY4OF	OUTFALL	0.00	0.00	0.0
ApplebyPond	STORAGE	163.00	2.00	0.0
BritanniaPond	STORAGE	187.50	5.00	0.0
BrontePond	STORAGE	164.00	5.00	0.0
DerryPond	STORAGE	198.00	5.00	0.0
DundasPond	STORAGE	154.00	4.00	0.0
LisgarPond	STORAGE	206.00	2.00	0.0
MsPond	STORAGE	186.00	5.00	0.0
TrafalgarPond	STORAGE	189.50	2.50	0.0

Link Summary

Name	From Node	To Node	Type	Length	%Slope	Roughness
C1	J3	J4	CONDUIT	112.0	5.1743	0.0130
C2	J4	J5	CONDUIT	119.4	0.6615	0.0110

C3	J5	OF4	CONDUIT	273.4	0.5231	0.0130
C4	J6	J4	CONDUIT	250.3	0.1199	0.0130
C5	J2	OF8	CONDUIT	540.8	0.1849	0.0130
C6	J7	OW02OF	CONDUIT	370.9	0.1079	0.0130
OR1	TrafalgarPond	TfgESC	ORIFICE			
OR2	DerryPond	DerryESC	ORIFICE			
OR3	BritanniaPond	BritESC	ORIFICE			
OR4	BrontePond	BronteESC	ORIFICE			
OR5	LisgarPond	LisgarOF	ORIFICE			
OR6	ApplebyPond	ABESC	ORIFICE			
OR8	DundasPond	OF1	ORIFICE			
OR9	MsPond	OF5	ORIFICE			
OR7	ApplebyPond	ABWQ	WEIR			
W1	TrafalgarPond	TfgSpill	WEIR			
W10	DundasPond	OF2	WEIR			
W11	MsPond	OF6	WEIR			
W12	MsPond	OF7	WEIR			
W2	DerryPond	DerryOverflo	WEIR			
W3	DerryPond	DerryQCtrl	WEIR			
W4	TrafalgarPond	TfgOut	WEIR			
W5	BritanniaPond	Brit	WEIR			
W6	BritanniaPond	OF3	WEIR			
W7	BrontePond	BronteCtrl	WEIR			
W8	BrontePond	BronteOverflo	WEIR			
W9	LisgarPond	LisgarOverflo	WEIR			

Cross Section Summary

Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C1	CIRCULAR	2.10	3.46	0.53	2.10	1	39.45
C2	CIRCULAR	2.60	5.31	0.65	2.60	1	29.46
C3	RECT_CLOSED	3.00	6.30	0.62	2.10	1	25.42
C4	CIRCULAR	0.75	0.44	0.19	0.75	1	0.39
C5	CIRCULAR	1.20	1.13	0.30	1.20	1	1.68
C6	CIRCULAR	1.65	2.14	0.41	1.65	1	2.99

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step.

Analysis Options

Flow Units CMS
Process Models:
 Rainfall/Runoff YES
 RDII NO
 Snowmelt NO
 Groundwater NO
 Flow Routing YES
 Ponding Allowed YES
 Water Quality NO
Infiltration Method HORTON
Flow Routing Method DYNWAVE
Starting Date 10/01/2019 00:00:00
Ending Date 10/03/2019 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:01:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step 5.00 sec
Variable Time Step YES
Maximum Trials 8
Number of Threads 1
Head Tolerance 0.001500 m

*****	Volume	Depth
Runoff Quantity Continuity	hectare-m	mm
*****	-----	-----
Initial LID Storage	5.185	9.628
Total Precipitation	65.020	120.731
Evaporation Loss	0.000	0.000
Infiltration Loss	37.515	69.659
Surface Runoff	17.405	32.317
LID Drainage	0.083	0.154
Final Storage	15.257	28.329
Continuity Error (%)	-0.077	

*****	Volume	Volume
Flow Routing Continuity	hectare-m	10^6 ltr
*****	-----	-----
Dry Weather Inflow	0.000	0.000

Wet Weather Inflow	17.488	174.877
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	17.133	171.336
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.613	6.130
Final Stored Volume	0.968	9.683
Continuity Error (%)	-0.007	

Time-Step Critical Elements

None

Highest Flow Instability Indexes

All links are stable.

Routing Time Step Summary

Minimum Time Step	:	4.50 sec
Average Time Step	:	5.00 sec
Maximum Time Step	:	5.00 sec
Percent in Steady State	:	0.00
Average Iterations per Step	:	2.01
Percent Not Converging	:	0.03

Subcatchment Runoff Summary

Subcatchment	Total Precip mm	Total Runon mm	Total Evap mm	Total Infil mm	Total Runoff mm	Total Runoff 10 ⁶ ltr	Peak Runoff CMS	Runoff Coeff
403IC	136.80	0.00	0.00	90.65	45.76	8.22	1.48	0.335

ApplebyBus	105.32	0.00	0.00	3.59	100.76	0.57	0.20	0.957
ApplebyP	105.32	0.00	0.00	0.00	104.32	1.37	0.47	0.990
ApplebyPd	105.32	0.00	0.00	73.35	32.04	0.22	0.08	0.304
BR02	136.80	0.00	0.00	77.83	10.66	1.41	0.09	0.078
Britannia_Ext	102.20	0.00	0.00	76.55	25.64	0.33	0.08	0.251
BritanniaBus	102.20	0.00	0.00	0.00	101.15	1.33	0.45	0.990
BritanniaP1	102.20	0.00	0.00	3.50	97.77	1.06	0.37	0.957
BritPond	102.20	0.00	0.00	17.95	83.60	0.48	0.18	0.818
BronteP	98.14	0.00	0.00	0.00	97.38	2.00	1.06	0.992
BrPond	98.14	408.73	0.00	136.26	371.53	1.82	0.53	0.733
BU02	136.80	0.00	0.00	35.15	24.15	0.59	0.07	0.177
BU04	136.80	0.00	0.00	71.79	16.71	0.93	0.09	0.122
BU04-Ex	105.32	0.00	0.00	68.89	36.01	84.68	17.51	0.342
BU05	136.80	0.00	0.00	66.99	21.52	0.60	0.08	0.157
BU06	136.80	0.00	0.00	64.33	24.20	0.44	0.07	0.177
BU07	136.80	0.00	0.00	67.88	20.63	0.66	0.08	0.151
BU08	136.80	0.00	0.00	66.02	22.50	0.54	0.08	0.164
BU09	136.80	0.00	0.00	66.04	22.48	0.54	0.08	0.164
BU10	136.80	0.00	0.00	70.68	17.82	0.85	0.08	0.130
BU11	136.80	0.00	0.00	64.26	24.27	0.43	0.07	0.177
DdPd	105.32	0.00	0.00	18.69	85.89	0.71	0.25	0.816
Derry_Bus	102.20	0.00	0.00	3.51	97.76	1.18	0.42	0.957
Derry_ExtS	102.20	0.00	0.00	75.52	26.69	0.13	0.03	0.261
Derry_P1	102.20	0.00	0.00	0.00	101.14	1.43	0.49	0.990
Derry_P2	102.20	0.00	0.00	0.00	101.19	0.93	0.32	0.990
Derry_Pond	102.20	0.00	0.00	17.68	83.90	0.46	0.18	0.821
DundasExt	105.32	0.00	0.00	71.11	34.38	0.45	0.23	0.326
DundasParking	105.32	0.00	0.00	3.59	100.72	4.06	1.39	0.956
F03	136.80	0.00	0.00	68.86	19.64	0.73	0.08	0.144
F03-ROW_out	136.80	0.00	0.00	70.62	66.00	0.89	0.24	0.482
L01	136.80	0.00	0.00	77.17	11.32	1.36	0.09	0.083
Lisgar	136.80	0.00	0.00	93.29	43.07	12.16	1.85	0.315
LisgarExt	102.20	0.00	0.00	0.00	101.11	0.10	0.03	0.989
LisgarParking	102.20	0.00	0.00	0.00	101.15	0.66	0.22	0.990
LisgarPd	102.20	246.54	0.00	0.00	269.89	0.83	0.02	0.774
M01	136.80	0.00	0.00	74.72	13.77	1.16	0.09	0.101
MissParking	102.20	0.00	0.00	3.56	97.51	4.29	1.37	0.954
MissPond	102.20	0.00	0.00	19.50	81.78	0.97	0.29	0.800
N01	136.80	0.00	0.00	38.43	19.93	1.37	0.08	0.146
NP01	136.80	0.00	0.00	80.12	8.37	1.61	0.10	0.061
OE01	136.80	0.00	0.00	69.04	19.47	0.74	0.08	0.142
OE02	136.80	0.00	0.00	65.34	23.18	0.50	0.08	0.169
OE03	136.80	0.00	0.00	65.34	23.18	0.50	0.08	0.169
OE04	136.80	0.00	0.00	62.71	25.83	0.34	0.07	0.189
OE05	136.80	0.00	0.00	63.01	25.53	0.36	0.07	0.187
OW01	136.80	0.00	0.00	64.23	24.29	0.43	0.07	0.178

OW02	136.80	0.00	0.00	68.69	19.82	0.71	0.08	0.145
OW02-Ex	136.80	0.00	0.00	84.69	52.09	11.53	3.03	0.381
OW04	136.80	0.00	0.00	67.45	21.06	0.63	0.08	0.154
OW05	136.80	0.00	0.00	63.27	25.27	0.37	0.07	0.185
OW06	136.80	0.00	0.00	64.77	23.76	0.46	0.08	0.174
OW07	136.80	0.00	0.00	70.96	17.54	0.87	0.08	0.128
OW11	136.80	0.00	0.00	74.17	14.32	1.12	0.09	0.105
S02	136.80	0.00	0.00	86.03	7.16	1.76	0.10	0.052
S03	136.80	0.00	0.00	70.87	9.61	1.39	0.09	0.070
S-E01	136.80	0.00	0.00	78.08	10.41	1.43	0.09	0.076
S-E03	136.80	0.00	0.00	80.11	8.38	1.61	0.10	0.061
TfgPond	98.14	0.00	0.00	16.16	81.56	1.10	0.59	0.831
TrafalgarAcc	98.14	0.00	0.00	3.06	94.55	0.78	0.44	0.963
TrafalgarBus	98.14	0.00	0.00	3.07	94.48	3.18	1.76	0.963
TrafalgarP1	98.14	0.00	0.00	0.00	97.41	3.29	1.77	0.993

LID Performance Summary

Subcatchment	LID Control	Total Inflow mm	Evap Loss mm	Infil Loss mm	Surface Outflow mm	Drain Outflow mm	Initial Storage mm	Final Storage mm	Continuity Error %
BR02	EnhancedSwale	344.07	0.00	24.00	0.00	0.00	173.20	493.32	-0.01
BU02	EnhancedSwale	605.83	0.00	24.00	68.79	0.00	173.20	686.29	-0.01
BU04	EnhancedSwale	344.42	0.00	24.00	0.00	0.00	173.20	493.66	-0.01
BU05	EnhancedSwale	344.64	0.00	24.00	0.00	0.00	173.20	493.89	-0.01
BU06	EnhancedSwale	344.82	0.00	24.00	0.00	0.00	173.20	494.07	-0.01
BU07	EnhancedSwale	344.63	0.00	24.00	0.00	0.00	173.20	493.88	-0.01
BU08	EnhancedSwale	344.74	0.00	24.00	0.00	0.00	173.20	493.98	-0.01
BU09	EnhancedSwale	344.71	0.00	24.00	0.00	0.00	173.20	493.96	-0.01
BU10	EnhancedSwale	344.46	0.00	24.00	0.00	0.00	173.20	493.70	-0.01
BU11	EnhancedSwale	344.78	0.00	24.00	0.00	0.00	173.20	494.03	-0.01
F03	EnhancedSwale	344.55	0.00	24.00	0.00	0.00	173.20	493.80	-0.01
L01	EnhancedSwale	344.12	0.00	24.00	0.00	0.00	173.20	493.37	-0.01
LisgarPd	DrySwale	348.74	0.00	0.00	0.00	269.89	126.00	205.20	-0.07
M01	EnhancedSwale	344.27	0.00	24.00	0.00	0.00	173.20	493.51	-0.01
N01	EnhancedSwale	604.92	0.00	24.00	62.66	0.00	173.20	691.50	-0.01
NP01	EnhancedSwale	343.91	0.00	24.00	0.00	0.00	173.20	493.16	-0.01
OE01	EnhancedSwale	344.58	0.00	24.00	0.00	0.00	173.20	493.82	-0.01
OE02	EnhancedSwale	344.77	0.00	24.00	0.00	0.00	173.20	494.02	-0.01
OE03	EnhancedSwale	344.77	0.00	24.00	0.00	0.00	173.20	494.02	-0.01
OE04	EnhancedSwale	344.88	0.00	24.00	0.00	0.00	173.20	494.12	-0.01

OE05	EnhancedSwale	344.78	0.00	24.00	0.00	0.00	173.20	494.03	-0.01
OW01	EnhancedSwale	344.79	0.00	24.00	0.00	0.00	173.20	494.03	-0.01
OW02	EnhancedSwale	344.56	0.00	24.00	0.00	0.00	173.20	493.81	-0.01
OW04	EnhancedSwale	344.64	0.00	24.00	0.00	0.00	173.20	493.89	-0.01
OW05	EnhancedSwale	344.80	0.00	24.00	0.00	0.00	173.20	494.04	-0.01
OW06	EnhancedSwale	344.75	0.00	24.00	0.00	0.00	173.20	494.00	-0.01
OW07	EnhancedSwale	344.45	0.00	24.00	0.00	0.00	173.20	493.70	-0.01
OW11	EnhancedSwale	344.28	0.00	24.00	0.00	0.00	173.20	493.53	-0.01
S02	EnhancedSwale	514.93	0.00	24.00	0.00	0.00	173.20	664.17	-0.01
S03	EnhancedSwale	243.40	0.00	24.00	0.00	0.00	173.20	392.64	-0.01
S-E01	EnhancedSwale	344.06	0.00	24.00	0.00	0.00	173.20	493.31	-0.01
S-E03	EnhancedSwale	343.91	0.00	24.00	0.00	0.00	173.20	493.16	-0.01

Node Depth Summary

Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days hr:min	Reported Max Depth Meters
J2	JUNCTION	0.05	0.19	116.19	0 12:25	0.19
J3	JUNCTION	0.10	0.98	159.73	0 12:00	0.98
J4	JUNCTION	0.15	1.65	154.61	0 12:00	1.63
J5	JUNCTION	0.11	1.95	154.12	0 12:00	1.95
J6	JUNCTION	0.03	2.00	155.26	0 11:50	1.33
J7	JUNCTION	0.27	1.24	156.64	0 12:00	1.24
ABESC	OUTFALL	0.00	0.00	163.00	0 00:00	0.00
ABWQ	OUTFALL	0.00	0.00	163.00	0 00:00	0.00
Brit	OUTFALL	0.00	0.00	188.50	0 00:00	0.00
BritESC	OUTFALL	0.00	0.00	188.50	0 00:00	0.00
BritEx	OUTFALL	0.00	0.00	188.50	0 00:00	0.00
BronteCtrl	OUTFALL	0.00	0.00	163.50	0 00:00	0.00
BronteESC	OUTFALL	0.00	0.00	163.50	0 00:00	0.00
BronteOverflo	OUTFALL	0.00	0.00	163.50	0 00:00	0.00
DerryESC	OUTFALL	0.00	0.00	199.00	0 00:00	0.00
DerryOverflo	OUTFALL	0.00	0.00	199.00	0 00:00	0.00
DerryQCtrl	OUTFALL	0.00	0.00	199.00	0 00:00	0.00
LisgarLID	OUTFALL	0.00	0.00	206.00	0 00:00	0.00
LisgarOF	OUTFALL	0.00	0.00	206.00	0 00:00	0.00
LisgarOverflo	OUTFALL	0.00	0.00	206.00	0 00:00	0.00
OF1	OUTFALL	0.00	0.00	155.00	0 00:00	0.00
OF2	OUTFALL	0.00	0.00	155.00	0 00:00	0.00
OF3	OUTFALL	0.00	0.00	188.50	0 00:00	0.00
OF4	OUTFALL	0.11	1.92	152.66	0 12:01	1.91

OF5	OUTFALL	0.00	0.00	182.00	0	00:00	0.00
OF6	OUTFALL	0.00	0.00	182.00	0	00:00	0.00
OF7	OUTFALL	0.00	0.00	185.00	0	00:00	0.00
OF8	OUTFALL	0.03	0.15	115.15	0	12:25	0.15
OW02OF	OUTFALL	0.65	0.87	155.87	0	12:01	0.87
TfgESC	OUTFALL	0.00	0.00	189.50	0	00:00	0.00
TfgOut	OUTFALL	0.00	0.00	189.50	0	00:00	0.00
TfgSpill	OUTFALL	0.00	0.00	189.50	0	00:00	0.00
TWY4OF	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
ApplebyPond	STORAGE	0.53	0.84	163.84	0	16:21	0.84
BritanniaPond	STORAGE	1.33	1.68	189.18	0	12:43	1.68
BrontePond	STORAGE	0.35	0.65	164.65	0	10:51	0.65
DerryPond	STORAGE	1.41	2.14	200.14	0	12:33	2.14
DundasPond	STORAGE	1.30	1.83	155.83	0	12:40	1.83
LisgarPond	STORAGE	0.00	0.00	206.00	0	00:00	0.00
MsPond	STORAGE	1.44	1.99	187.99	0	12:56	1.99
TrafalgarPond	STORAGE	1.31	1.72	191.22	0	08:57	1.72

Node Inflow Summary

Node	Type	Maximum Lateral Inflow CMS	Maximum Total Inflow CMS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 ltr	Total Inflow Volume 10^6 ltr	Flow Balance Error Percent
J2	JUNCTION	0.079	0.079	0 12:00	1.37	1.37	-0.006
J3	JUNCTION	17.513	17.513	0 12:00	84.7	84.7	0.001
J4	JUNCTION	0.085	17.590	0 12:00	0.935	85.7	0.001
J5	JUNCTION	0.000	17.543	0 12:00	0	85.6	0.011
J6	JUNCTION	0.000	0.171	0 11:48	0	0.0586	-1.515
J7	JUNCTION	3.105	3.105	0 12:00	12.2	12.4	0.420
ABESC	OUTFALL	0.000	0.011	0 16:21	0	1.41	0.000
ABWQ	OUTFALL	0.000	0.000	0 00:00	0	0	0.000 ltr
Brit	OUTFALL	0.000	0.061	0 12:43	0	1.26	0.000
BritESC	OUTFALL	0.000	0.010	0 12:43	0	1.09	0.000
BritEx	OUTFALL	0.080	0.080	0 12:00	0.329	0.329	0.000
BronteCtrl	OUTFALL	0.000	0.014	0 10:51	0	0.236	0.000
BronteESC	OUTFALL	0.000	0.010	0 10:51	0	1.12	0.000
BronteOverflo	OUTFALL	0.000	0.000	0 00:00	0	0	0.000 ltr
DerryESC	OUTFALL	0.000	0.024	0 12:33	0	2.11	0.000
DerryOverflo	OUTFALL	0.000	0.000	0 00:00	0	0	0.000 ltr
DerryQCtrl	OUTFALL	0.000	0.136	0 12:33	0	1.86	0.000

LisgarLID	OUTFALL	0.017	0.017	0	14:35	0.828	0.828	0.000
LisgarOF	OUTFALL	0.000	0.000	0	00:00	0	0	0.000 ltr
LisgarOverflo	OUTFALL	0.000	0.000	0	00:00	0	0	0.000 ltr
OF1	OUTFALL	0.000	0.020	0	12:40	0	1.75	0.000
OF2	OUTFALL	0.000	0.165	0	12:40	0	3.03	0.000
OF3	OUTFALL	0.000	0.000	0	00:00	0	0	0.000 ltr
OF4	OUTFALL	0.000	17.513	0	12:01	0	85.6	0.000
OF5	OUTFALL	0.000	0.022	0	12:56	0	2.24	0.000
OF6	OUTFALL	0.000	0.123	0	12:56	0	2.44	0.000
OF7	OUTFALL	0.000	0.000	0	00:00	0	0	0.000 ltr
OF8	OUTFALL	0.000	0.078	0	12:25	0	1.37	0.000
OW02OF	OUTFALL	0.000	2.977	0	12:01	0	12.5	0.000
TfgESC	OUTFALL	1.756	1.769	0	08:00	3.18	4.98	0.000
TfgOut	OUTFALL	0.000	0.130	0	08:57	0	2.78	0.000
TfgSpill	OUTFALL	0.000	0.000	0	00:00	0	0	0.000 ltr
TWY4OF	OUTFALL	5.758	5.758	0	12:00	44.7	44.7	0.000
ApplebyPond	STORAGE	0.745	0.745	0	12:00	2.15	2.15	0.008
BritanniaPond	STORAGE	1.005	1.005	0	12:00	2.86	3.51	0.004
BrontePond	STORAGE	0.526	0.526	0	08:10	1.82	1.82	0.003
DerryPond	STORAGE	1.434	1.434	0	12:00	4.13	5.13	0.007
DundasPond	STORAGE	1.874	1.874	0	12:00	5.22	6.42	0.005
LisgarPond	STORAGE	0.000	0.000	0	00:00	0	0	0.000 ltr
MsPond	STORAGE	1.656	1.656	0	12:00	5.26	6.63	0.005
TrafalgarPond	STORAGE	2.800	2.800	0	08:00	5.17	6.97	0.001

Node Surcharge Summary

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Meters	Min. Depth Below Rim Meters
J6	JUNCTION	0.37	1.250	0.000

Node Flooding Summary

No nodes were flooded.

Storage Volume Summary

Storage Unit	Average Volume 1000 m3	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 m3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CMS
ApplebyPond	0.996	19	0	0	1.639	31	0 16:21	0.011
BritanniaPond	1.465	6	0	0	2.476	11	0 12:43	0.071
BrontePond	0.792	3	0	0	1.506	5	0 10:51	0.024
DerryPond	1.731	12	0	0	3.348	23	0 12:33	0.160
DundasPond	2.216	12	0	0	4.375	24	0 12:40	0.185
LisgarPond	0.000	0	0	0	0.000	0	0 00:00	0.000
MsPond	2.619	10	0	0	4.541	18	0 12:56	0.144
TrafalgarPond	3.087	30	0	0	5.176	51	0 08:57	0.149

Outfall Loading Summary

Outfall Node	Flow Freq Pcnt	Avg Flow CMS	Max Flow CMS	Total Volume 10^6 ltr
ABESC	95.84	0.009	0.011	1.413
ABWQ	0.00	0.000	0.000	0.000
Brit	52.09	0.014	0.061	1.257
BritESC	96.08	0.007	0.010	1.093
BritEx	47.68	0.004	0.080	0.329
BronteCtrl	24.94	0.005	0.014	0.236
BronteESC	85.28	0.008	0.010	1.124
BronteOverflo	0.00	0.000	0.000	0.000
DerryESC	96.30	0.013	0.024	2.111
DerryOverflo	0.00	0.000	0.000	0.000
DerryQCtrl	28.48	0.038	0.136	1.862
LisgarLID	39.58	0.012	0.017	0.828
LisgarOF	0.00	0.000	0.000	0.000
LisgarOverflo	0.00	0.000	0.000	0.000
OF1	96.14	0.011	0.020	1.751
OF2	39.96	0.044	0.165	3.030
OF3	0.00	0.000	0.000	0.000
OF4	97.04	0.511	17.513	85.605

OF5	95.65	0.014	0.022	2.237
OF6	49.52	0.028	0.123	2.436
OF7	0.00	0.000	0.000	0.000
OF8	72.85	0.011	0.078	1.367
OW02OF	99.35	0.073	2.977	12.524
TfgESC	95.30	0.030	1.769	4.984
TfgOut	67.37	0.024	0.130	2.778
TfgSpill	0.00	0.000	0.000	0.000
TWY4OF	97.90	0.264	5.758	44.701

System	51.01	1.118	26.663	171.665

Link Flow Summary

Link	Type	Maximum Flow CMS	Time of Max Occurrence days hr:min	Maximum Veloc m/sec	Max/ Full Flow	Max/ Full Depth	Maximum Volume m3

C1	CONDUIT	17.510	0 12:00	7.71	0.44	0.62	251.57
C2	CONDUIT	17.543	0 12:00	4.51	0.60	0.69	464.05
C3	CONDUIT	17.513	0 12:01	4.34	0.69	0.64	1109.74
C4	CONDUIT	0.171	0 11:48	0.43	0.44	1.00	110.58
C5	CONDUIT	0.078	0 12:25	0.82	0.05	0.14	52.21
C6	CONDUIT	2.977	0 12:01	2.07	0.99	0.64	531.22
OR1	ORIFICE	0.018	0 08:57			1.00	0.00
OR2	ORIFICE	0.024	0 12:33			1.00	0.00
OR3	ORIFICE	0.010	0 12:43			1.00	0.00
OR4	ORIFICE	0.010	0 10:51			1.00	0.00
OR5	ORIFICE	0.000	0 00:00			0.00	0.00
OR6	ORIFICE	0.011	0 16:21			1.00	0.00
OR8	ORIFICE	0.020	0 12:40			1.00	0.00
OR9	ORIFICE	0.022	0 12:56			1.00	0.00
OR7	WEIR	0.000	0 00:00			0.00	0.00
W1	WEIR	0.000	0 00:00			0.00	0.00
W10	WEIR	0.165	0 12:40			0.53	0.00
W11	WEIR	0.123	0 12:56			0.59	0.00
W12	WEIR	0.000	0 00:00			0.00	0.00
W2	WEIR	0.000	0 00:00			0.00	0.00
W3	WEIR	0.136	0 12:33			0.54	0.00
W4	WEIR	0.130	0 08:57			0.52	0.00
W5	WEIR	0.061	0 12:43			0.38	0.00
W6	WEIR	0.000	0 00:00			0.00	0.00

W7	WEIR	0.014	0	10:51		0.15	0.00
W8	WEIR	0.000	0	00:00		0.00	0.00
W9	WEIR	0.000	0	00:00		0.00	0.00

Flow Classification Summary

Conduit	Adjusted /Actual Length	Fraction of Time in Flow Class								
		Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
C1	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.97	0.00
C2	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.02	0.00
C3	1.00	0.03	0.00	0.00	0.46	0.51	0.00	0.00	0.31	0.00
C4	1.00	0.03	0.59	0.00	0.38	0.00	0.00	0.00	0.67	0.00
C5	1.00	0.24	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00
C6	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.04	0.00

Conduit Surge Summary

Conduit	Hours Full			Hours	
	Both Ends	Upstream	Dnstream	Above Full Normal Flow	Capacity Limited
C4	0.37	0.37	0.84	0.01	0.01

Analysis begun on: Fri Oct 18 12:09:46 2019
Analysis ended on: Fri Oct 18 12:09:47 2019
Total elapsed time: 00:00:01