



**REVISED FUNCTIONAL SERVICING REPORT**

**BURLINGTON FELLOWSHIP  
CANADIAN REFORMED CHURCH  
1350 WATERDOWN ROAD**

**CITY OF BURLINGTON**

Submitted by:

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## TABLE OF CONTENTS

Section	Page
1.0 INTRODUCTION .....	1
1.1 Existing Site Conditions .....	1
1.2 Proposed Development .....	1
2.0 PROPOSED GRADING AND SERVICING .....	2
2.1 Grading .....	2
2.2 Sanitary Sewer System.....	2
2.3 Watermain Distribution System.....	3
3.0 STORMWATER MANAGEMENT .....	4
3.1 Background Information Review .....	4
3.2 Criteria .....	4
3.3 Hydrology.....	5
3.3.1 Soils .....	5
3.3.2 Existing Conditions.....	5
3.3.3 Hydrologic Analysis for Existing Conditions .....	6
3.3.4 Proposed Conditions.....	7
3.3.5 Hydrologic Analysis for Proposed Conditions .....	8
3.4 Flood Control .....	10
3.5 Erosion Control .....	13
3.6 Quality Control .....	15
4.0 SUMMARY .....	17

### List of Figures

Figure 1	Existing Hydrological Modelling Schematic of Grindstone Creek
Figure 2	Future Hydrological Modelling Schematic of Grindstone Creek
Figure 3	Existing Subcatchment Boundary Plan (back of report)
Figure 4	Future Subcatchment Boundary Plan (back of report)
Figure 5	Existing Conditions Plan (back of report)
Figure 6	Functional Site Grading Plan (back of report)
Figure 7	Functional Site Servicing Plan (back of report)

### List of Appendices

Appendix A	Sanitary Sewer Design Calculations
Appendix B	Water Supply for Public Fire Protection – 1999
Appendix C	SWMHYMO Hydrologic Modelling Input/Output
Appendix D	Stormwater Management Calculations

## **1.0 INTRODUCTION**

### **1.1 Existing Site Conditions**

The subject land within this Functional Servicing Report is an existing rural property comprised of 1.52 ha (+/-) of land located in the City of Burlington. The site is located at 1350 Waterdown Road approximately 500 m north of Highway 403 near the intersection of Craven Avenue and Waterdown Road. The abutting properties are existing residential lands.

The site is primarily undeveloped with a gravel driveway and is comprised of slight tree cover. The site drains southerly and westerly towards Nevarc Drive along an average grade of 5% and discharges into Grindstone Creek Tributary No. 4 along the west side of the property. There is a ditch on the east side of the property, along the west side of Waterdown Road and also a driveway culvert which is proposed to be replaced. A chain link fence is present on the south side of the proposed development and a post and wire fence is also present on the north side of the site.

Existing services are present on Waterdown Road which include sanitary and storm sewers and a watermain. All services run along Waterdown Road up to Craven Avenue, with the exception of the watermain which runs north along Waterdown Road beyond the project site (ref. Figure 5 – Existing Conditions Plan).

### **1.2 Proposed Development**

The proposed development is comprised of a new church building with a footprint of approximately 1,178 m<sup>2</sup>, driveways and 109 parking spaces.

The purpose of this report is to examine and demonstrate the serviceability of this development with respect to site grading, sanitary, water, and stormwater management and ensure servicing strategies are consistent with the City of Burlington, Conservation Halton, and Ministry of Environment and Climate Change (MOECC) requirements.

## **2.0 PROPOSED GRADING AND SERVICING**

### **2.1 Grading**

The subject site presents a considerable grade difference of approximately four (4) meters between the northern and southern property limits. It is proposed to grade the site so that it will maintain existing drainage patterns to the extent possible and in a way to ensure that stormwater runoff from within the proposed development is fully collected and released in a controlled manner, without impacting adjacent properties.

The north west side of the site is proposed to drain into catchbasins located within the parking lot. The south west side is proposed to drain into a ditch inlet catchbasin via a grassed swale. Drainage from the west side of the site is then collected by a proposed storm sewer which outlets to Grindstone Creek, Tributary No. 4. The east side of the site is proposed to drain into the existing ditch on the west side of Waterdown Road via grassed swales and dry ponds. The entire site ultimately drains into Grindstone Creek.

Retaining walls are proposed along the northern and southern property limits. These retaining walls will serve as a grade transition to the adjacent properties (ref. Figure 6 – Functional Site Grading Plan).

### **2.2 Sanitary Sewer System**

An existing 300 mm sanitary sewer system is present along Waterdown Road approximately 25 m north of Craven Avenue. The sewer is located on the west of the centerline of road and flows south.

A 200 mm sanitary sewer is proposed to service the new development. The existing 300 mm sanitary sewer along Waterdown Road is to be extended to the north to allow the proposed sanitary sewer to connect to the main sewer line.

This development is expected to contribute approximately 1.25 L/s of sewage to the existing sewer system based on calculations per Halton Region, Water and Wastewater Linear Design Manual, dated May 2014.

Detailed sanitary sewer flow calculations are included in Appendix A.

The sanitary sewer has been designed based on a single-storey, no basement building with slab on grade, as outlined in the geotechnical investigation report prepared by Trow Engineers Ltd., dated December 2011 (Ref. Figure 7 – Functional Site Servicing Plan).

## **2.3 Watermain Distribution System**

Two (2) watermains currently service the Waterdown Road area near the project site. There is an existing 600 mm concrete feeder watermain, located on the east side of Waterdown Road and an existing 350 mm AC watermain on the west side.

A 150 mm PVC watermain is proposed to connect to the existing 350 mm AC watermain on Waterdown Road.

A 100 mm PVC Watermain (Domestic) will service the new church building in order to provide for drinking water and a 150 mm PVC Watermain (Fireline) will service the new church building in order to provide for fire protection, both of which shall have curb stops placed 1.5 m away from the property line.

One (1) fire hydrants is being proposed within the project site in order to service the new development.

Per the attached Appendix B, the Fire Underwriter's Survey (Water Supply for Public Fire Protection 1999 Guideline) criterion requires fire flows of 6,500 L/min.

Hydrant testing will be required to take place for verification of pressure and flow required for the proposed development (Ref. Figure 7 – Functional Site Servicing Plan).

## **3.0 STORMWATER MANAGEMENT**

### **3.1 Background Information Review**

Background information relating to the subject site and its drainage conditions have been reviewed in order to determine constraints and opportunities associated with the existing and future drainage conditions within the study limits. The following report provides the baseline hydrologic modelling used for the 'existing condition' for the subject site.

#### **Stormwater Management Assessment for Detailed Design of Waterdown Road/Highway 403 Interchange, City of Burlington, Ministry of Transportation (Philips Engineering Ltd. December 2007).**

This assessment is the source of the baseline and latest approved hydrologic model for Grindstone Creek. The subcatchments were delineated based upon the drainage areas to each of the existing and proposed culverts and swales using topographic mapping available from the City of Burlington and Conservation Halton. A SWMHYMO hydrologic model was developed using the 12 hour SCS design storms from the City of Burlington. An erosion and water quality facility was designed to treat the CUMIS development lands and Waterdown Road improvements prior to discharging into Grindstone Creek Tributary No. 3. All works proposed in this report have been constructed.

### **3.2 Criteria**

The following stormwater management criteria have been identified for the study area:

- Post development peak flows must not increase from the existing condition peak flows for all events up to and including the 100 year storm event in-stream at Node 4008.1 and Node 4008.2 (ref. Figure 3).
- The proposed site must be treated to Provincial (MOECC) erosion control standards which requires a minimum 24 hour drawdown of the 25 mm storm event.
- Site stormwater must be treated to Provincial (MOECC) quality standards for 'Enhanced' treatment (i.e. 80% T.S.S. removal).

### **3.3 Hydrology**

#### **3.3.1 Soils**

Surficial soils within the site have been classified and characterized based upon information provided by a Geotechnical Investigation prepared by Trow Consulting Engineers Ltd. (December, 2001). As described in the Trow report, soils on-site are silty-clay as determined by nine (9) borehole tests.

The associated hydraulic conductivity of a silty-clay soil is  $1.4 \times 10^{-5}$  cm/s based on Table 4 in the DRAFT Stormwater Management Certification Protocols for Low Impact Development (CVC, 2012). The soil has an associated infiltration rate of 26 mm/hr which has been determined from Figure C1 in Appendix C of the Low Impact Development Stormwater Management Planning and Design Guide (LID Guide – CVC, TRCA, 2010).

#### **3.3.2 Existing Conditions**

The subject site measures 1.52 ha (+/-), and is an existing rural property. The site currently includes a gravel driveway with area of 0.02 ha. The remaining site is undeveloped grassed lands (1.50 ha) that is partially located within the Conservation Halton (CH) regulated setback from the staked top of bank (CH, June 2014). The site area up to the staked top of bank is 0.94 ha. The site has been conservatively assessed as 100% pervious for existing conditions.

The Total Station Survey for the site (A.T. McLaren Ltd., July 4, 2013) has been provided by Greg Poole & Associates Inc. for reference in this assessment. Based upon the grading information presented in the Total Station Survey, it is understood that a majority of the site runoff (0.85 ha) flows southerly and westerly towards Nevarc Drive along an average grade of 5%. A field inspection verified that the site runoff passes through a private swale on the west side of Nevarc Drive, just south of the subject property, and then enters Grindstone Creek Tributary 4 (Ref. Figure 5 - Existing Conditions Plan). The major storm runoff from the remaining east portion of the site (0.09 ha) is conveyed southerly along the Waterdown Road right of way and then westerly along the north service road and enters Grindstone Creek Tributary No. 4. Minor storm runoff from the remaining east portion of the site (0.09 ha) is captured within the existing storm sewer on Waterdown Road and is conveyed to the existing stormwater management facility located northeast of the Waterdown Road and Highway 403 interchange, ultimately draining to Grindstone Creek Tributary 3.

### 3.3.3 Hydrologic Analysis for Existing Conditions

Hydrologic analyses have been completed using SWMHYMO Version 4.02 to determine the return period peak flows from the subject property under existing land use conditions. The model discretization has been determined based upon the ultimate land use conditions presented in the December 2007 model (Philips Engineering Ltd), as it is the latest approved Grindstone Creek hydrologic model which represents current conditions. The subcatchment boundary plan for the existing grading conditions on the site is presented in Figure 3, the model schematic is presented in Figure 1, and the subcatchment parameterization is summarized in Table 3.1.

Table 3.1. Subcatchment Parameterization for Existing Land Use Conditions									
Outlet (Ref. Node)	Subcatchment Reference Number	Area (ha)	Impervious Cover (%)	CN AMCII	Slope (%)		Surface Length (m)		T <sub>peak</sub> (hrs)
					Pervious	Impervious	Pervious	Impervious	
4008.1	4001	5.28	N/A	65.93	N/A	N/A	N/A	N/A	0.19
	4003	3.13	N/A	62.60	N/A	N/A	N/A	N/A	0.29
	4002	6.34	N/A	73.50	N/A	N/A	N/A	N/A	0.23
	4004A	0.64	N/A	73.58	N/A	N/A	N/A	N/A	0.06
	4004B	0.57	N/A	73.58	N/A	N/A	N/A	N/A	0.06
	4004C	1.13	N/A	73.58	N/A	N/A	N/A	N/A	0.11
	4010	0.85	N/A	73.58	N/A	N/A	N/A	N/A	0.07
4008.2	4011	0.09	N/A	73.58	N/A	N/A	N/A	N/A	0.03
	4006	3.37	N/A	69.10	N/A	N/A	N/A	N/A	0.12
	4007	5.04	31.5	72.75	3.4	1.5	53.0	168.0	N/A
	4008	2.42	21.8	79.33	3.4	1.5	56.0	134.0	N/A
<b>TOTAL</b>		<b>28.86</b>							

The SWMHYMO hydrologic model for the existing site conditions has been used to determine peak flows at four (4) key locations downstream of the subject property at nodes 4010, 4011, 4008.1 and 4008.2. The subject site is located within Subcatchments 4010 and 4011 (Ref. Figure 3 – Existing Conditions Subcatchment Boundary Plan). Node 4008.1 is the closest on-line downstream confluence node from the site on Grindstone Creek Tributary No. 4, and thus is the critical point of comparison. To be consistent with the December 2007 assessment, the 12 hour SCS design storms from the City of Burlington have been applied for this assessment. The simulated peak flow rates for the 2 year to 100 year return period storm events are summarized in Table 3.2.



Table 3.2. Simulated Peak Flows for Existing Land Use and Drainage Conditions (m <sup>3</sup> /s)							
Flow Node/Description	Drainage Area (ha)	Return Period (Years)					
		2	5	10	25	50	100
4010 – West Side of Site	0.85	0.05	0.08	0.11	0.15	0.18	0.20
4011 – East of Site (within roadside ditch)	0.66	0.04	0.07	0.09	0.12	0.14	0.16
4008.1 – Tributary No.4 Confluence D/S of Subject Site	17.37	0.38	0.68	0.91	1.23	1.48	1.74
4008.2 – Tributary No.4 D/S of North Service Road	28.86	1.08	1.85	2.42	3.19	3.80	4.43

Table 3.2 displays that the peak flow at Node 4008.1 ranges from 0.38 m<sup>3</sup>/s to 1.74 m<sup>3</sup>/s and Node 4008.2 ranges from 1.08 m<sup>3</sup>/s to 4.43 m<sup>3</sup>/s for the 2 to 100 year storm events, respectively.

### 3.3.4 Proposed Conditions

Under currently proposed conditions, a 0.11 ha church and 0.32 ha parking lot would be constructed on the subject site. Approximately 0.08 ha of the parking lot would consist of permeable pavers to promote infiltration. The total site area up to the top of bank has been measured to be 0.94 ha. The proposed development, would increase the overall impervious cover for the site from 0% under existing conditions to approximately 37% under proposed conditions.

The site is proposed to be graded such that 0.22 ha of the site flows easterly towards the roadside ditch on Waterdown Road, via grassed swales. The major storm runoff flows southerly along the Waterdown Road right of way and then is conveyed westerly along the north service road and enters Grindstone Creek Tributary No. 4. The minor storm runoff is captured in the existing storm sewer on Waterdown Road and is conveyed to the existing stormwater management facility located northeast of the Waterdown Road and Highway 403 interchange, ultimately draining to Grindstone Creek Tributary 3.

The remainder of the site is proposed to be graded such that 0.72 ha of the site discharges westerly into Grindstone Creek Tributary 4 via a proposed underground storage system and outlet ditch, as well as through the process of infiltration into the ground.

There is 0.54 ha of external area which discharges onto the subject site. A cutoff swale is proposed to be placed on the north side of the proposed retaining wall in order to safely convey 0.36 ha of external drainage westerly away from the proposed development and direct the runoff into the proposed outlet swale. The remaining 0.18 ha of external drainage will be directed into proposed Dry Pond no. 2 (ref. Section 3.4).

### 3.3.5 Hydrologic Analysis for Proposed Conditions

Hydrologic analyses have been completed to determine the change in peak flow from the site as a result of the proposed site development. The baseline SWMHYMO hydrologic model has been modified to represent the drainage conditions of the proposed site. The model discretization has been determined based upon the Total Station Survey for the subject property (A.T. McLaren Ltd., July 4, 2013). The subcatchment boundary plan for the proposed site conditions is presented in Figure 4, the model schematic is presented in Figure 2, and the subcatchment parameterization is summarized in Table 3.3.

Table 3.3. Subcatchment Parameterization for Existing Land Use Conditions									
Outlet (Ref. Node)	Subcatchment Reference Number	Area (ha)	Impervious Cover (%)	CN AMCII	Slope (%)		Surface Length (m)		T <sub>peak</sub> (hrs)
					Pervious	Impervious	Pervious	Impervious	
4008.1	4001	5.28	N/A	65.93	N/A	N/A	N/A	N/A	0.19
	4003	3.13	N/A	62.60	N/A	N/A	N/A	N/A	0.29
	4002	6.34	N/A	73.50	N/A	N/A	N/A	N/A	0.23
	4004A	0.10	N/A	73.58	N/A	N/A	N/A	N/A	0.03
	4004B	0.36	N/A	73.58	N/A	N/A	N/A	N/A	0.05
	4004C	1.13	N/A	73.58	N/A	N/A	N/A	N/A	0.11
	4010A <sup>1</sup>	0.35	63.0 <sup>1</sup>	73.58	1.0	1.0	5	30	N/A
	4010B	0.21	N/A	73.58	N/A	N/A	N/A	N/A	0.04
4008.2	4010C	0.14	36.0	73.58	305	1.5	5	20	N/A
	4006	3.37	N/A	69.10	N/A	N/A	N/A	N/A	0.12
	4004D	0.57	N/A	73.58	N/A	N/A	N/A	N/A	0.06
	4007	5.04	31.5	72.75	3.40	1.5	53.0	168.0	N/A
	4008	2.42	21.8	79.33	3.40	1.5	56.0	134.0	N/A
	4011A	0.12	38.0	73.58	30	1.5	5	30	N/A
	4011B	0.10	45.0	73.58	30	1.5	5	30	N/A
<b>TOTAL</b>		<b>28.84</b>							

<sup>1</sup> Impervious coverage has been reduced based on the inclusion of permeable pavers.

The SWMHYMO hydrologic model for the proposed conditions has been used to determine peak flows at four (4) key locations downstream of the subject property for the 2 year through 100 year return period storms. Consistent with the approach applied for the existing conditions, the 12 hour SCS design storms from the City of Burlington have been applied for this assessment. The simulated return period peak flows for the proposed conditions in the absence of any additional stormwater management are summarized in Table 3.4, and the percent change in peak flows compared to existing conditions are presented in Table 3.5.

<b>Table 3.4. Simulated Peak Flows for Proposed Conditions Without Additional Stormwater Management (m<sup>3</sup>/s)</b>							
<b>Flow Node/Description</b>	<b>Drainage Area (ha)</b>	<b>Return Period (Years)</b>					
		<b>2</b>	<b>5</b>	<b>10</b>	<b>25</b>	<b>50</b>	<b>100</b>
4010 – West Side of Site	0.7	0.07	0.10	0.13	0.16	0.18	0.21
4011 – East of Site (within roadside ditch)	0.97	0.07	0.11	0.14	0.18	0.22	0.25
4008.1 – Tributary No.4 Confluence D/S of Subject Site	17.04	0.38	0.68	0.90	1.21	1.45	1.70
4008.2 – Tributary No.4 D/S of North Service Road	28.84	1.09	1.88	2.46	3.24	3.85	4.48

<b>Table 3.5. Percent Difference in Simulated Peak Flows (%)</b>							
<b>Flow Node</b>	<b>Drainage Area (ha)</b>	<b>Return Period (Years)</b>					
		<b>2</b>	<b>5</b>	<b>10</b>	<b>25</b>	<b>50</b>	<b>100</b>
4010 – West Side of Site	0.7	39%	21%	14%	8%	5%	3%
4011 – East of Site (within roadside ditch)	0.97	69%	64%	60%	59%	57%	56%
4008.1 – Tributary No.4 Confluence D/S of Subject Site	17.04	-1%	-1%	-2%	-2%	-2%	-2%
4008.2 – Tributary No.4 D/S of North Service Road	28.84	1%	1%	2%	2%	1%	1%

The results in Tables 3.4 and 3.5 indicate that, in the absence of any on-site stormwater management, the proposed alterations on the subject site would increase the peak flows on-site for the 2 to 100 year storm events which is attributable to the increase in imperviousness. The peak flows to Node 4011 have substantially increased for the 2 to 100 year storm events ranging from 56% to 69% which is due to the increase in drainage area, and increase in impervious surface proposed on the subject site.

Online in Grindstone Creek Tributary No. 4 at Node 4008.1, there are decreases to the peak flow ranging from 1% to 2% for the 2 year to 100 year storm events. Further downstream at Node 4008.2, there are increases in the peak flow of 1% to 2% for the 2 year to 100 year storm events. The change in peak flows within Grindstone Creek at Nodes 4008.1 and 4008.2 are attributable to the proposed development, due to the

increase in hard surface as well as the time of concentration and routing of external upstream catchments. Since post to pre peak flows are not being met off-site, stormwater quantity controls are warranted.

### 3.4 Flood Control

Hydrologic analyses have been completed to determine the peak flows from the site under proposed conditions with on-site stormwater management. The on-site flood control is proposed to be provided by two (2) dry ponds and an underground storage tank system. Dry Ponds no. 1 and no. 2, with a combined available volume of 139 m<sup>3</sup>, are proposed to control the runoff from the east portion of the site discharging to Node 4011. The underground storage system (Stormtech SC-740 or approved equivalent) is proposed to control the runoff from the west portion of the site discharging to Node 4010. Based on the stormwater analysis, the underground storage tank will provide a volume of 140 m<sup>3</sup> with an area of approximately 260 m<sup>2</sup>. Table 3.6 summarizes the required and provided storage volumes for the 2 year to 100 year storm events to control flows being discharged from the subject site.

<b>Table 3.6. Storage-Volumes Required and Provided For The 2 Year to 100 Year Storm Events to Control Flows Discharging from Subject Site.</b>			
<b>SWM Facility</b>	<b>Storm Event</b>	<b>Storage Volume Required (m<sup>3</sup>)</b>	<b>Storage Volume Provided (m<sup>3</sup>)</b>
Dry Pond No. 1	2 Year	12	12
	5 Year	17	17
	10 Year	22	22
	25 Year	27	27
	50 Year	32	32
	100 Year	36	36
Dry Pond No. 2	2 Year	22	22
	5 Year	36	36
	10 Year	47	47
	25 Year	61	61
	50 Year	72	72
	100 Year	84	84
Storage Tank <sup>1</sup>	2 Year	93	93
	5 Year	126	126
	10 Year	149	149
	25 Year	177	177
	50 Year	196	196
	100 Year	213	213

<sup>1</sup> Storage tank volumes include 75 m<sup>3</sup> as part of the proposed infiltration gallery located beneath the tank.

The stage-storage-discharge relationship for both site outlets (Node 4010 and Node 4011) provided by the proposed stormwater management (SWM) facilities (i.e. dry ponds and underground tank) have been calculated at various elevations, utilizing the orifice equation, to store and convey the peak flows for storm events up to and including the 100 year storm event. The discharge from each dry pond is controlled by a hickenbottom outlet structure. The size, number, and orientation of the perforations in the riser structure have been specified to meet the flow targets at Node 4011. The discharge from the underground storage tank is controlled by an orifice plate utilizing two (2) orifices at different elevations to control flow to Node 4010. Details of the SWM facilities and their respective outlets can be seen on Figure 7, Functional Site Servicing Plan.

Peak flows in excess of the 100 year event will be directed to major overland conveyance systems adjacent to the subject site as per the following (ref. Figure 4):

- Subcatchment 4010A: Northwest to Grindstone Tributary No. 4.
- Subcatchment 4010B (undeveloped): West to Grindstone Tributary No. 4.
- Subcatchment 4010C: South to Nevarc Drive.
- Subcatchment 4011A and 4011B: East to Waterdown Road.

The stage-storage-discharge relationships for the SWM facilities under proposed conditions are presented in Tables 3.7, 3.8, and 3.9. Refer to Figures 6 and 7 for the location of the stormwater management dry ponds and underground storage facilities.

<b>Table 3.7. Stage-Storage-Discharge Relationship for Dry Pond No.1.</b>			
<b>Stage (m)</b>	<b>Depth (m)</b>	<b>Storage Volume (m<sup>3</sup>)</b>	<b>Discharge (m<sup>3</sup>/s)</b>
131.20	0.00	0	0.00
131.25	0.05	8	0.002
131.30	0.10	17	0.003
131.35	0.15	25	0.004
131.40	0.20	34	0.004
131.45	0.25	44	0.005
131.50	0.30	53	0.006

<b>Table 3.8. Stage-Storage-Discharge Relationship for Dry Pond No 2.</b>			
<b>Stage (m)</b>	<b>Depth (m)</b>	<b>Storage Volume (m<sup>3</sup>)</b>	<b>Discharge (m<sup>3</sup>/s)</b>
132.20	0.00	0	0.00
132.25	0.05	10	0.003
132.30	0.10	20	0.004
132.35	0.15	30	0.006
132.40	0.20	41	0.007
132.45	0.25	51	0.010
132.50	0.30	63	0.013
132.55	0.35	74	0.015
132.60	0.40	86	0.017

<b>Table 3.9. Stage-Storage-Discharge Relationship for Underground Storage System</b>			
<b>Stage (m)</b>	<b>Depth (m)</b>	<b>Storage (m<sup>3</sup>)</b>	<b>Discharge (m<sup>3</sup>/s)</b>
129.27 <sup>1</sup>	-0.88	0	0
130.15 <sup>2</sup>	0.00	75	> 0
130.30	0.15	105	0.012
130.45	0.30	134	0.020
130.60	0.45	161	0.026
130.75	0.60	184	0.044
131.90	0.75	202	0.058
131.05	0.90	216	0.068

<sup>1</sup> Stage represents the bottom of the infiltration gallery (described in Section 3.5: Erosion Control).

<sup>2</sup> Stage represents the bottom of the storage chambers (i.e. active storage).

The SWMHYMO hydrologic model which has been developed for the proposed conditions on the site has been revised to incorporate the stage-storage-discharge relationships presented in Tables 3.7, 3.8, and 3.9. Hydrologic analyses have been completed in order to determine the simulated peak flow rates for the 2 year through 100 year storm events with the recommended quantity controls. The simulated peak flows for the 2 year through 100 year storm events under proposed conditions with stormwater quantity controls are presented in Table 3.10 and the percent change compared to existing conditions are presented in Table 3.11.

<b>Table 3.10. Simulated Peak Flows for Proposed Conditions With Stormwater Management (m<sup>3</sup>/s)</b>							
<b>Flow Node/Description</b>	<b>Drainage Area (ha)</b>	<b>Return Period (Years)</b>					
		<b>2</b>	<b>5</b>	<b>10</b>	<b>25</b>	<b>50</b>	<b>100</b>
4010 – West Side of Site	0.7	0.02	0.04	0.05	0.07	0.09	0.11
4011 – East of Site (within roadside ditch)	0.97	0.04	0.07	0.09	0.11	0.14	0.16
4008.1 – Tributary No.4 Confluence D/S of Subject Site	17.04	0.38	0.68	0.91	1.22	1.48	1.74
4008.2 – Tributary No.4 D/S of North Service Road	28.84	1.04	1.79	2.33	3.08	3.68	4.29

<b>Table 3.11. Percent Difference in Simulated Peak Flows (%)</b>							
<b>Flow Node</b>	<b>Drainage Area (ha)</b>	<b>Return Period (Years)</b>					
		<b>2</b>	<b>5</b>	<b>10</b>	<b>25</b>	<b>50</b>	<b>100</b>
4010 – West Side of Site	0.7	-67%	-56%	-55%	-54%	-49%	-46%
4011 – East of Site (within roadside ditch)	0.97	3%	-1%	-2%	-2%	-1%	-2%
4008.1 – Tributary No.4 Confluence D/S of Subject Site	17.04	-1%	0%	-1%	0%	0%	0%
4008.2 – Tributary No.4 D/S of North Service Road	28.84	-4%	-4%	-4%	-4%	-3%	-3%

The results in Tables 3.10 and 3.11 indicate that under proposed conditions with stormwater management, peak flows decrease or remain unchanged when compared to existing conditions at Nodes 4010, 4008.1, and 4008.2 for the 2 to 100 year storm events. Peak flows at Node 4011 decrease for all simulated storm events, excepting the 2 year event for which there is an increase of 3%. The magnitude of this increase is 0.001 m<sup>3</sup>/s and is considered nominal. Consequently, the proposed stormwater management plan is considered to satisfy the requirements to provide post-to-pre control within the Grindstone Creek Tributary No. 4 at Node 4008.1 and Node 4008.2, as well as at the west and east outlets from the site (i.e. Nodes 4010 and 4011, respectively).

### 3.5 Erosion Control

As described in Section 3.2, erosion controls are required in accordance with the MOECC SWM criteria, in that there must be a minimum 24 hour drawdown of the 25 mm storm event.

### West Outlet (Node 4010)

In an effort to minimize the storage volumes of the proposed SWM facilities, given the limited space on-site, an alternate approach is recommended to provide the requisite erosion control storage and 24 hour drawdown. It is proposed that the underground storage tank (providing quantity control for the west side of the subject site) be installed with an open bottom, above a proposed infiltration gallery. The infiltration gallery is proposed to have a net volume of at least  $75 \text{ m}^3$  (based on the runoff volume generated within the SWMHYMO model) to fully capture the 25 mm event and release it gradually via infiltration into the ground. By providing infiltrative storage with 50 mm diameter clear stone at a specified depth, the 24 hour drawdown can be achieved by the estimated infiltration rate of the native soils. As stated in section 3.3.1, the estimated infiltration rate of a silty-clay soil is 26 mm/hr. When applying the safety correction factor of 2.5 as recommended in the LID SWM Guide (CVC TRCA, 2010), the design infiltration rate would be 10.4 mm/hr.

Borehole tests near the west end of the site, reported in the Geotechnical Investigation (Trow Consulting Engineers Ltd., 2001), state that weathered shale bedrock is present at an elevation of approximately 128.26 m (i.e. Borehole 7) in the vicinity of the proposed underground storage tank. The depth of the gallery will be 0.88 m based on the recommendations provided in the LID SWM Guide (CVC TRCA, 2010) which require at least a one (1) metre separation between the top of bedrock and the bottom of the infiltration gallery. With an estimated void ratio of 0.4, the footprint of the gallery would need to be approximately  $215 \text{ m}^2$ . Based on the design infiltration rate of 10.4 mm/hr, drawdown of the infiltration gallery is expected to take around 34 hours. Supporting calculations can be found in Appendix D. An additional geotechnical investigation would be required during the detailed design stage at the location of the proposed underground tank and infiltration gallery to confirm bedrock elevations and determine percolation rates of the native soil.

### East Outlet (Node 4011)

Borehole tests at the east end of the site reported in the Geotechnical Investigation (Trow Consulting Engineers Ltd., 2001) indicate that weathered shale bedrock is present at depths ranging from 0.08 m to 0.50 m. The shallow elevation of the bedrock would limit the ability to use infiltration at the east end of the site to address the erosion control requirements. The required erosion control volume ( $28 \text{ m}^3$ ; based on the runoff volume generated within the SWMHYMO model) is proposed to be treated within the existing SWM facility (i.e. CUMIS) located northeast of the Waterdown Road and Highway 403 interchange, which provides erosion control and quality control. The Detailed Design of Waterdown Road/Highway 403 Interchange Stormwater Management Design Brief (Philips, October 2008) indicates unused extended detention volume is available within the existing SWM facility. The design brief indicates that the facility was designed with  $630 \text{ m}^3$  of extended detention volume but that it only required



500 m<sup>3</sup>, providing an excess of 130 m<sup>3</sup> of extended detention (i.e. greater than the 25 mm runoff volume from the east side of the site.) The existing storm sewer on Waterdown Road currently captures and conveys minor flows from the east side of the subject site to this existing SWM facility. Supporting calculations can be found in Appendix D.

### Summary

Based on the foregoing, the proposed infiltration gallery and the existing CUMIS SWM facility northeast of the Waterdown Road and Highway 403 interchange are considered to satisfy the requirements to provide erosion control for the proposed site.

## **3.6 Quality Control**

The subject site is within the headwaters of Grindstone Creek, which has been designated as Type 1 habitat by the Ontario Ministry of Natural Resources and Forestry, therefore, 'Enhanced' water quality treatment of stormwater runoff is required for the proposed development.

### West Outlet (Node 4010)

The developed west side of the subject site (i.e. Subcatchments 4010A and 4010C, ref. Figure 4) is proposed to be treated by an oil and grit separator (OGS) as well as low impact development (LID) best management practices (BMP). The northwest portion of the site (i.e. Subcatchment 4010A, ref. Figure 4) is to receive 80% T.S.S. removal from a proposed STC 300 (or approved equivalent) oil and grit separator. Supporting "PCSWMM for Stormceptor" information can be found in Appendix D. The proposed OGS not only provides the requisite water quality control for the northwest portion of the site, but also acts as a form of pretreatment to prevent clogging of the proposed storage tank. The proposed infiltration gallery (downstream of the OGS) will provide additional water quality treatment by infiltrating flows versus conveying them (and any pollutants) directly to the creek. The southwest portion of the site (i.e. Subcatchment 4010C, ref. Figure 4) is to receive at least 70% T.S.S. removal from a proposed enhanced swale along the south edge of the property. Runoff from paved surfaces enter the swale at the upstream end and are conveyed through the length of the swale (i.e. approximately 60 m.) During the 4 hour, 25 mm Chicago storm event, flow velocity is below 0.5 m/s and flow depth is at or below 100 mm, which is consistent with design guidance provided in the LID SWM Guide (CVC TRCA, 2010.) The proposed infiltration gallery, located downstream of the enhanced swale, will provide additional water quality by infiltrating flows versus conveying them directly to the creek. The proposed infiltration gallery has been sized to capture all runoff from the 25 mm water quality event and, as such, during this rainfall event, the proposed treatment train is expected to achieve an upwards of 100% TSS removal. The combination of the elements in this treatment train approach is proposed to provide the minimum requisite 80% T.S.S.

removal. The west-most, proposed Subcatchment 4010B is anticipated to remain a pervious surface and will not require quality control.

#### East Outlet (Node 4011)

The east side of the subject site (i.e. Subcatchments 4011A and 4011B, ref. Figure 4) is proposed to be treated by the existing CUMIS SMW facility northeast of the Waterdown Road and Highway 403 interchange. The existing storm sewer on Waterdown Road currently conveys minor flows from the east side of the subject site to this existing SWM facility. The Detailed Design of Waterdown Road/Highway 403 Interchange Stormwater Management Design Brief (Philips, October 2008) indicates unused permanent pool volume is available within the existing SWM facility, which provides erosion control and quality control. The design brief indicates that the facility was designed with 820 m<sup>3</sup> of extended detention volume but that it only required 790 m<sup>3</sup>, providing an excess of 30 m<sup>3</sup> of permanent pool volume. Utilizing Table 3.2 of the MOE SWM Planning & Design Manual (2003) and linearly interpolating between required storage volumes per impervious area, the east side of the site would require approximately 25 m<sup>3</sup> of the available 30 m<sup>3</sup> of permanent pool volume within the CUMIS SWM facility to provide Enhanced (i.e. 80% T.S.S. removal) water quality treatment. Supporting calculations can be found in Appendix D.

## 4.0 SUMMARY

The contents of this functional servicing report and accompanying figures demonstrate that the Burlington Fellowship Canadian Reformed Church Development can be serviced with regard to grading, sanitary sewers, water distribution and stormwater management in keeping with the municipal and provincial standards.

It has been concluded that:

1. The expected sanitary discharge flow from the site is approximately 1.25 L/s. A 200 mm sanitary connection at 2.0% is proposed to connect to the existing 300 mm sanitary sewer on Waterdown Road.
2. Water supply for the site will be provided from the existing 350 mm AC watermain on Waterdown Road. A 150 mm fire and 100 mm domestic water service is proposed. The site requires a minimum fire suppression flow rate of approximately 6,500 L/min. Hydrant testing will be required to verify the existing water infrastructure meets the fire suppression required for the proposed development.
3. The proposed grading of the site will match the existing grades where possible. Internal drainage from the site will not impact surrounding properties. Site flows will be fully collected and released in a controlled manner up to the 100-year storm. Major overland flow on the east side will be directed to Waterdown Road. Major overland flow on the west side will be directed to the existing Grindstone Creek tributary no. 4 and Nevarc Drive.
4. The proposed dry ponds and underground storage tank will control future condition peak flows from the site for the 2 to 100 year storm events to the existing condition peak flows within Grindstone Creek tributary no. 4, and to the east and west outlets from the site.
5. The proposed infiltration gallery beneath the proposed underground storage tank and the existing CUMIS SWM facility would provide the requisite erosion control.
6. The proposed oil grit separator (STC 300) or approved equivalent, enhanced swales, infiltration gallery, and existing CUMIS SWM facility would provide the requisite quality control.

We trust the above report is sufficient for your purpose. Should you have any questions or concerns please do not hesitate to contact our office.

Yours truly,

Amec Foster Wheeler Environment & Infrastructure,  
a division of Amec Foster Wheeler Americas Limited

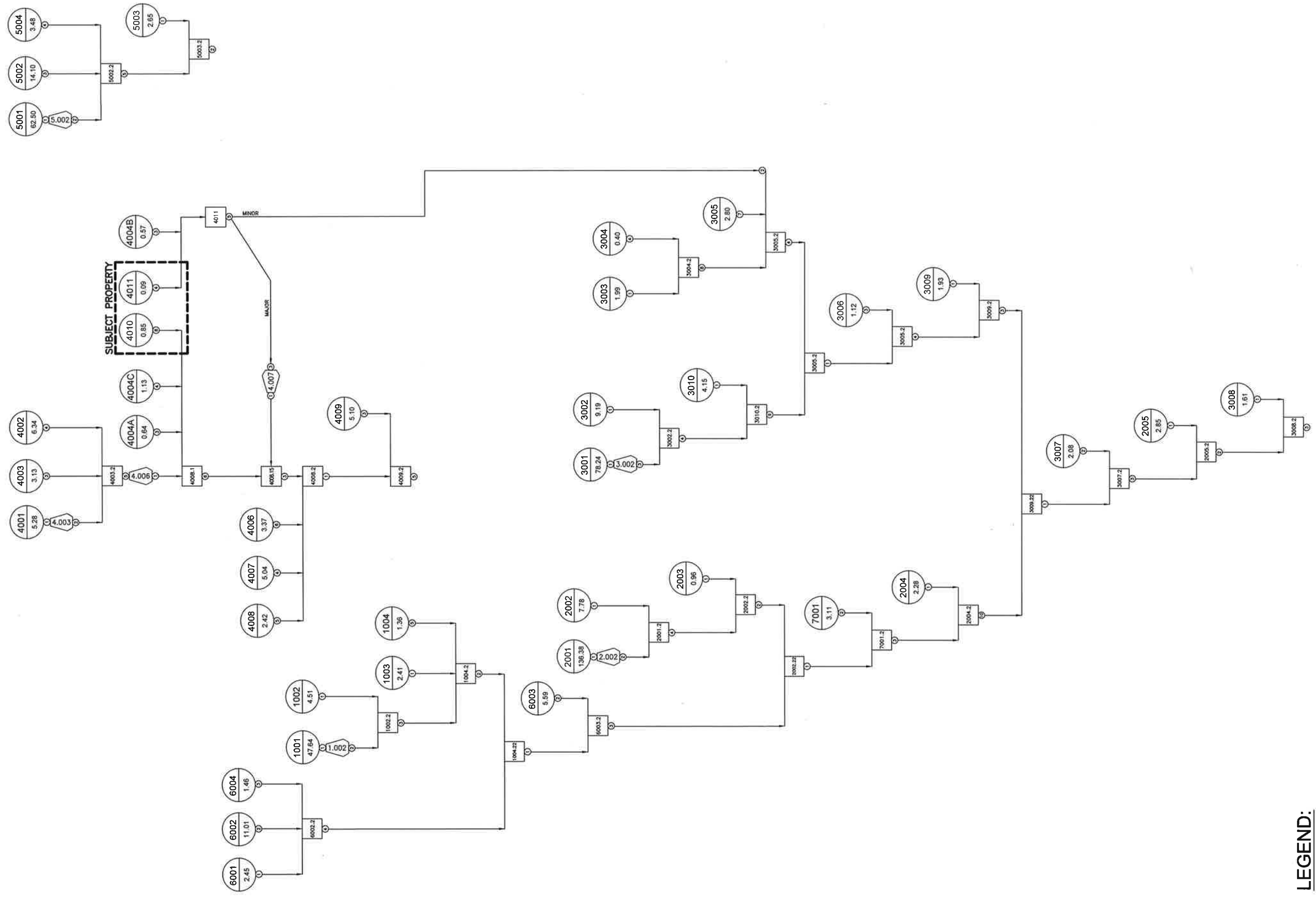


Per: Paul Pagazani, P. Eng.  
Senior Engineer







Per: Matthew Kuyntjes, E.I.T.  
Civil Designer

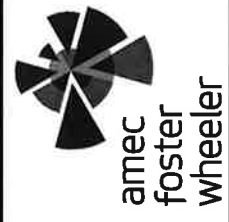
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**LEGEND:**

-  SUBCATCHMENT NO.
-  SUBCATCHMENT AREA (Ha)
-  ADD HYD
-  ROUTE CHANNEL

**1350 WATERDOWN ROAD, BURLINGTON**  
**FELLOWSHIP CANADIAN REFORMED CHURCH**  
 CITY OF BURLINGTON  
**EXISTING HYDROLOGIC MODELLING**  
**SCHEMATIC OF GRINDSTONE CREEK**



Project No.	TP114053
Date	JULY 2016
Scale	NTS
Figure No.	1





## **APPENDIX A**

### **Sanitary Discharge Calculations**

## General Sanitary Design Flow per Halton Region Design Manual

Date: November, 2014

Prepared by: M. Portugal

### PROPOSED DEVELOPMENT - Fellowship Church - 1350 Waterdown Road, Burlington, On

Site Area = 1.50 ha

Type of Development = Community Service

Number of Units = 1

#### Sewage Discharge

Population = 60.00 people

Equivalent Population Density = 40.00 persons per hectare (per Halton Design Manual)

Unit Sewage Flow = 0.275 m<sup>3</sup>/cap.day

Average Dry Weather Flow = Population x Unit Sewage Flow  
= 60 x 0.275 = 16.5 m<sup>3</sup>/day  
= 0.191 Litres / sec

Peak Wastewater Flow Factor =  $M = 1 + 14/4 + P^{0.5}$ , where P is in Thousands, M = 2 min

$M = 1 + 14/4 + (0.06)^{0.5} = 4.30$

Infiltration Allowance =  $0.286 \times 10^{-3} \text{ m}^3 / \text{sec} / \text{ha} = 0.286 \times 10^{-3} \times 1.5 \text{ ha} = 0.0004 \text{ m}^3 / \text{sec}$

Therefore, 0.429 L/sec

**Design Flow = Average Flow x Peak Factor + Infiltration**

**= 1.25 Litres / sec**

#### Water Usage

Based on water for sewage discharge

Residential: Average = 16.50 m<sup>3</sup> / day  
Peak = 107.98 m<sup>3</sup> / day





## **APPENDIX B**

### **Water Supply for Public Fire Protection – 1999**

# WATER SUPPLY FOR PUBLIC FIRE PROTECTION - 1999

Project Name: Fellowship Church - 1350 Waterdown Road, Burlington, On

Project Number: TP114053

Date: July 2016

Prepared by: P. Pagazani

## Guide for Determination of Required Fire Flow - Fire Underwriters Survey

**$F = 220 C (A)^{0.5}$**  An estimate of the fire flow required for a given area may be determined by this formula.

**F** = required fire flow in litres per minute

**C** = coefficient related to the type of construction

= 1.5 for wood frame construction (structure essentially all combustible)

= 1.0 for ordinary construction (brick or other masonry walls, combustible floor and interior)

= 0.8 for non-combustible construction (unprotected metal structural components, masonry or metal wall)

= 0.6 for fire-restive construction (fully protected frame, floors, roof)

**A** = the total floor area in  $m^2$  (including all storeys, but excluding basements at least 50% below grade) in the building being considered

### OUTLINE OF PROCEDURE

**A. Determine the type of construction.**

= 1.0 ordinary construction

**B. Determine the ground floor area.**

- Total ground floor area: = 1,178.00  $m^2$

**D. Using the fire flow formula above, determine the required fire flow to the nearest 1,000 litres/min**

= 7,550.84 L/min Round to 8,000.00 L/min

**E. Determine the increase or decrease for occupancy and apply to the value obtained in D above.**

**Do not round off the answer.**

= -15% limited combustible -1200 L/min = 6,800.00 L/min

**F. Determine the decrease, if any, for automatic sprinkler protection. Do not round off the value.**

= 2,040 L/min 30% Reduction for adequately designed sprinkler system conforming to NFPA

**G. Determine the total increase for exposures. Do not round off the values.**

= 1,700 L/min 25% Exposure Factor conforming to NFPA

**H. To the answer obtained in E, subtract the value obtained in F and add the value obtained in G.**

= 6,460 L/min Round to **6,500 L/min**

**This is only preliminary and subject to change based on Architectural and Mechanical design. This is only an estimate and we do not take responsibility for errors as we do not claim to be fire protection experts.**



## APPENDIX C

### **SWMHYMO Hydrological Modelling Input/Output**



## **SWMHYMO Input**

2 Metric units

```

**#*****
*# Project Name: [Waterdown Road] Project Number: [107016] *
*# Date : 09-14-2007 *
*# Modeller : [KB] *
*# Company : Philips Engineering Ltd *
*# License # : 3569108 *
**#*****

```

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*****PRE-DEVELOPMENT/EXISTING FLOWS

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*Subcatchments associated with Tributary 1

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times

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times
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ExR.dat

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END=-1
*%-----|-----|
ROUTE CHANNEL |IDout=[2], NHYD=["4.003"], IDin=[1],
RDT=[2](min),
CHLGTH=[475](m), CHSLOPE=[1.26](%),
                    FPSLOPE=[1.26](%),
SECNUM=[4], NSEG=[3]
times        |( SEGROUGH, SEGDIST (m))=[0.08, 16.5, -0.05, 35, 0.08, 63] NSEG
                    ( DISTANCE (m), ELEVATION (m))=[0, 138.5]
                                                    [16.5, 131]
                                                    [27, 130.5]
                                                    [35, 131]
                                                    [63, 139]
*%-----|-----|
CALIB NASHYD |ID=[3], NHYD=["4003"], DT=[5]min, AREA=[3.13](ha),
DWF=[0.0](cms), CN/C=[62.60], IA=[1.5](mm),
N=[3], TP=[0.291]hrs,
END=-1
*%-----|-----|
CALIB NASHYD |ID=[4], NHYD=["4002"], DT=[5]min, AREA=[6.34](ha),
DWF=[0.0](cms), CN/C=[73.50], IA=[1.5](mm),
N=[3], TP=[0.231]hrs,
END=-1
*%-----|-----|
ADD HYD    |IDsum=[5], NHYD=["4003.2"], IDs to add=[2+3+4]|
*%-----|-----|
ROUTE CHANNEL |IDout=[1], NHYD=["4.006"], IDin=[5],
RDT=[2](min),
CHLGTH=[357](m), CHSLOPE=[5.04](%),
                    FPSLOPE=[5.04](%),
SECNUM=[4b], NSEG=[3]
times        |( SEGROUGH, SEGDIST (m))=[0.08, 18, -0.05, 37, 0.08, 45] NSEG
                    ( DISTANCE (m), ELEVATION (m))=[0, 121]
                                                    [18, 116]
                                                    [31, 116]
                                                    [37, 117]
                                                    [45, 120.5]

```



ExR.dat

\*%-----|-----  
CALIB NASHYD ID=[3] NHYD=["4004A"], DT=[5]min, AREA=[0.64](ha),  
DWF=[0.0](cms), CN/C=[73.58], IA=[1.5](mm),  
N=[3], TP=[0.056]hrs,  
END=-1

\*%-----|-----  
CALIB NASHYD ID=[4] NHYD=["4004C"], DT=[5]min, AREA=[1.13](ha),  
DWF=[0.0](cms), CN/C=[73.58], IA=[1.5](mm),  
N=[3], TP=[0.110]hrs,  
END=-1

#####  
\* Undeveloped Existing Fellowship Church Site - west Side  
#####

\*%-----|-----  
CALIB NASHYD ID=[5] NHYD=["4010"], DT=[5]min, AREA=[0.85](ha),  
DWF=[0.0](cms), CN/C=[73.58], IA=[1.5](mm),  
N=[3], TP=[0.066]hrs,  
END=-1

\*%-----|-----  
ADD HYD IDsum=[6], NHYD=["4008.1"], IDs to add=[5+3+4+1]  
\*%-----|-----

CALIB NASHYD ID=[3] NHYD=["4004B"], DT=[5]min, AREA=[0.57](ha),  
DWF=[0.0](cms), CN/C=[73.58], IA=[1.5](mm),  
N=[3], TP=[0.063]hrs,  
END=-1

#####  
\* Undeveloped Existing Fellowship Church Site - East Site  
#####

CALIB NASHYD ID=[4] NHYD=["4011"], DT=[5]min, AREA=[0.09](ha),  
DWF=[0.0](cms), CN/C=[73.58], IA=[1.5](mm),  
N=[3], TP=[0.033]hrs,  
END=-1

\*%-----|-----  
ADD HYD IDsum=[5], NHYD=["4011"], IDs to add=[3+4]  
\*%-----|-----

\* MINOR FLOW CAPACITY DETERMINED BY EXISTING 5 YEAR PEAK FLOW  
#####

DIVERT HYD Idin=[5 ], NIDout=[2 ]max five,  
outflow hydrographs (ID, NHYD)=[2,"Minor"/3,"Major"]  
flow distribution table: (modify as necessary)  
Note: all flows are in (cms)  
QIDi + QIDii = QTOTAL  
[ 0 + 0 = 0 ]  
[ 0.067 + 0 = 0.067 ]  
[ 0.067 + 2 = 2.067 ]  
[ 0.067 + 10 = 10.067 ]  
[ 0 + 0 = 0 ] end

#####  
\*%-----|-----

ROUTE CHANNEL IDout=[1], NHYD=["4.007"], IDin=[3],  
RDT=[2](min),  
CHLGTH=[250](m), CHSLOPE=[2.40](%),  
FPSLOPE=[2.40](%),  
SECNUM=[5], NSEG=[3]  
( SEGROUGH, SEGDIST (m))=[0.035, 2.4, -0.035, 4.0, 0.035, 6.4]

NSEG times  
( DISTANCE (m), ELEVATION (m))=[0, 131.75]  
[2.4, 131.50]  
[3.7, 130.75]  
[4.0, 130.75]  
[6.4, 131.75]

\*%-----|-----

```

                                EXR.dat
ADD HYD                          IDsum=[3], NHYD=["4008.15"], IDs to add=[6+1]
*%-----|
CALIB NASHYD                      ID=[6], NHYD=["4006"], DT=[5]min, AREA=[3.37](ha),
                                DWF=[0.0](cms), CN/C=[69.10], IA=[1.5](mm),
                                N=[3], TP=[0.116]hrs,
                                END=-1
*%-----|
CALIB STANDHYD                    ID=[4] NHYD=["4007"], DT=[5](min), AREA=[5.04](ha),
                                XIMP=[0.315], TIMP=[0.315], DWF=[0.0](cms), LOSS=[2],
                                SCS curve number CN=[72.75],
                                Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),
                                                                LGP=[53](m), MNP=[0.035], SCP=[0](min),
                                Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                                                LGI=[168](m), MNI=[0.013], SCI=[0](min),
                                END=-1
*%-----|
CALIB STANDHYD                    ID=[5] NHYD=["4008"], DT=[5](min), AREA=[2.42](ha),
                                XIMP=[.218], TIMP=[.218], DWF=[0.0](cms), LOSS=[2],
                                SCS curve number CN=[79.33],
                                Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),
                                                                LGP=[56](m), MNP=[0.035], SCP=[0](min),
                                Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                                                LGI=[134](m), MNI=[0.013], SCI=[0](min),
                                END=-1
*%-----|
ADD HYD                          IDsum=[1], NHYD=["4008.2"], IDs to add=[3+4+5+6]
*%-----|
CALIB STANDHYD                    ID=[3] NHYD=["4009"], DT=[5](min), AREA=[5.11](ha),
                                XIMP=[0.01], TIMP=[.903], DWF=[0.0](cms), LOSS=[2],
                                SCS curve number CN=[73.05],
                                Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),
                                                                LGP=[180](m), MNP=[0.034], SCP=[0](min),
                                Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                                                LGI=[310](m), MNI=[0.013], SCI=[0](min),
                                END=-1
*%-----|
ADD HYD                          IDsum=[5], NHYD=["4009.2"], IDs to add=[1+3]
*%-----|
*****
*Remaining Subcatchments associated with Tributary 3
ADD HYD                          IDsum=[4], NHYD=["3005.2"], IDs to add=[7+8+2]
*%-----|
* ROUTE RESERVOIR                IDOUT=[5], NHYD=["SWM"], IDIN=[4],
*                                RDT=[5](min),
*                                TABLE OF (OUTFLOW-STORAGE) VALUES
*                                (cms) - (ha-m)
*                                [ 0.0   , 0.0   ]
*                                [ 0.006 , 0.0500 ]
*                                [ 0.48  , 0.0900 ]
*                                [ 0.92  , 0.1250 ]
*                                END=-1
*%-----|
ADD HYD                          IDsum=[1], NHYD=["3005.2"], IDs to add=[9+4]
*%-----|
CALIB STANDHYD                    ID=[3] NHYD=["3006"], DT=[5](min), AREA=[1.12](ha),
                                XIMP=[0.01], TIMP=[.859], DWF=[0.0](cms), LOSS=[2],
                                SCS curve number CN=[64.50],
                                Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),
                                                                LGP=[53](m), MNP=[0.035], SCP=[0](min),
                                Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                                                LGI=[94](m), MNI=[0.013], SCI=[0](min),
                                END=-1
*%-----|

```

EXR.dat

```

ADD HYD IDsum=[4], NHYD=["3005.2"], IDs to add=[1+3]
**%-----|
CALIB STANDHYD ID=[1] NHYD=["3009"], DT=[5](min), AREA=[1.93](ha),
XIMP=[0.01], TIMP=[.904], DWF=[0.0](cms), LOSS=[2],
SCS curve number CN=[64.50],
Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),
LGP=[58](m), MNP=[0.034], SCP=[0](min),
Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
LGI=[217](m), MNI=[0.013], SCI=[0](min),
END=-1
**%-----|
ADD HYD IDsum=[3], NHYD=["3009.2"], IDs to add=[1+4]
**%-----|
ADD HYD IDsum=[1], NHYD=["3009.22"], IDs to add=[10+3]
**%-----|
CALIB STANDHYD ID=[2] NHYD=["3007"], DT=[5](min), AREA=[2.08](ha),
XIMP=[0.01], TIMP=[.357], DWF=[0.0](cms), LOSS=[2],
SCS curve number CN=[72.45],
Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),
LGP=[47](m), MNP=[0.034], SCP=[0](min),
Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
LGI=[164](m), MNI=[0.013], SCI=[0](min),
END=-1
**%-----|
ADD HYD IDsum=[3], NHYD=["3007.2"], IDs to add=[1+2]
**%-----|
CALIB NASHYD ID=[1] NHYD=["2005"], DT=[5]min, AREA=[2.85](ha),
DWF=[0.0](cms), CN/C=[87.35], IA=[1.5](mm),
N=[3], TP=[0.052]hrs,
END=-1
**%-----|
ADD HYD IDsum=[2], NHYD=["2005.2"], IDs to add=[1+3]
**%-----|
CALIB STANDHYD ID=[1] NHYD=["3008"], DT=[5](min), AREA=[1.61](ha),
XIMP=[0.01], TIMP=[.395], DWF=[0.0](cms), LOSS=[2],
SCS curve number CN=[74.25],
Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),
LGP=[78](m), MNP=[0.034], SCP=[0](min),
Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
LGI=[164](m), MNI=[0.013], SCI=[0](min),
END=-1
**%-----|
ADD HYD IDsum=[3], NHYD=["3008.2"], IDs to add=[1+2]
**%-----|
*****
*Subcatchments associated with Tributary 5
CALIB NASHYD ID=[1], NHYD=["5001"], DT=[5]min, AREA=[62.5](ha),
DWF=[0.0](cms), CN/C=[30.12], IA=[1.5](mm),
N=[3], TP=[0.408]hrs,
END=-1
**%-----|
ROUTE CHANNEL IDout=[2], NHYD=["5.002"], IDin=[1],
RDT=[2](min),
CHLGTH=[912](m), CHSLOPE=[2.03](%),
FPSLOPE=[2.03](%),
SECNUM=[5], NSEG=[3]
( SEGROUGH, SEGDIST (m))=[0.08, 30, -0.05, 55, 0.08, 80] NSEG
times
( DISTANCE (m), ELEVATION (m))=[0, 133]
[30, 122.5]
[41, 122.5]
[55, 123]
[80, 137]

```

EXR.dat

```

*%-----|-----
CALIB NASHYD ID=[3], NHYD=["5002"], DT=[5]min, AREA=[14.10](ha),
DWF=[0.0](cms), CN/C=[33.95], IA=[1.5](mm),
N=[3], TP=[0.255]hrs,
END=-1
*%-----|-----
CALIB NASHYD ID=[4], NHYD=["5004"], DT=[5]min, AREA=[3.48](ha),
DWF=[0.0](cms), CN/C=[78.00], IA=[1.5](mm),
N=[3], TP=[0.105]hrs,
END=-1
*%-----|-----
ADD HYD IDsum=[5], NHYD=["5002.2"], IDs to add=[2+3+4]
*%-----|-----
CALIB NASHYD ID=[1], NHYD=["5003"], DT=[5]min, AREA=[2.65](ha),
DWF=[0.0](cms), CN/C=[61.00], IA=[1.5](mm),
N=[3], TP=[0.143]hrs,
END=-1
*%-----|-----
ADD HYD IDsum=[2], NHYD=["5003.2"], IDs to add=[1+5]
*%-----|-----
* Maximum Drainage Area to Swale--Nevarc Drive
CALIB STANDHYD ID=[1] NHYD=["SWALE"], DT=[5](min), AREA=[0.50](ha),
XIMP=[0.95], TIMP=[.95], DWF=[0.0](cms), LOSS=[2],
SCS curve number CN=[73.05],
Pervious surfaces: IAPER=[2.5](mm), SLPP=[1.0](%),
LGP=[12.9](m), MNP=[0.034], SCP=[0](min),
Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
LGI=[56.3](m), MNI=[0.013], SCI=[0](min),
END=-1
*%-----|-----
START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[2]
BurSCS12.005
START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[3]
BurSCS12.010
START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[4]
BurSCS12.025
START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[5]
BurSCS12.050
START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[6]
BurSCS12.100
START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[7]
CHI4HR5M.025
FINISH

```

2 Metric units

```

**#*****
*# Project Name: [Waterdown Road] Project Number: [107016] *
*# Date : 09-14-2007 *
*# Modeller : [KB] *
*# Company : Philips Engineering Ltd *
*# License # : 3569108 *
**#*****

```

```

START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[1]
      "BurSCS12.002"

```

```

READ STORM STORM_FILENAME=["STORM.001"]

```

```

*Subcatchments associated with Tributary 4
CALIB NASHYD

```

```

ID=[1], NHYD=["4001"], DT=[5]min, AREA=[5.28](ha),
DWF=[0.0](cms), CN/C=[65.93], IA=[1.5](mm),
N=[3], TP=[0.190]hrs,
END=-1

```

```

ROUTE CHANNEL

```

```

IDout=[2], NHYD=["4.003"], IDin=[1],
RDT=[2](min),
CHLGTH=[475](m), CHSLOPE=[1.26](%),
FPSLOPE=[1.26](%),
SECNUM=[4], NSEG=[3]
( SEGROUGH, SEGDIST (m))=[0.08, 16.5, -0.05, 35, 0.08, 63] NSEG

```

times

```

( DISTANCE (m), ELEVATION (m))=[0, 138.5]
[16.5, 131]
[27, 130.5]
[35, 131]
[63, 139]

```

```

CALIB NASHYD

```

```

ID=[3], NHYD=["4003"], DT=[5]min, AREA=[3.13](ha),
DWF=[0.0](cms), CN/C=[62.60], IA=[1.5](mm),
N=[3], TP=[0.291]hrs,
END=-1

```

```

CALIB NASHYD

```

```

ID=[4], NHYD=["4002"], DT=[5]min, AREA=[6.34](ha),
DWF=[0.0](cms), CN/C=[73.50], IA=[1.5](mm),
N=[3], TP=[0.231]hrs,
END=-1

```

```

ADD HYD

```

```

IDsum=[5], NHYD=["4003.2"], IDs to add=[2+3+4]

```

```

ROUTE CHANNEL

```

```

IDout=[1], NHYD=["4.006"], IDin=[5],
RDT=[2](min),
CHLGTH=[357](m), CHSLOPE=[5.04](%),
FPSLOPE=[5.04](%),
SECNUM=[4b], NSEG=[3]
( SEGROUGH, SEGDIST (m))=[0.08, 18, -0.05, 37, 0.08, 45] NSEG

```

times

```

( DISTANCE (m), ELEVATION (m))=[0, 121]
[18, 116]
[31, 116]
[37, 117]
[45, 120.5]

```

```

CALIB NASHYD

```

```

ID=[2] NHYD=["4004A"], DT=[5]min, AREA=[0.10](ha),
DWF=[0.0](cms), CN/C=[73.58], IA=[1.5](mm),
N=[3], TP=[0.028]hrs,
END=-1

```

FUT.dat

CALIB NASHYD ID=[3] NHYD=["4004B"], DT=[5]min, AREA=[0.36](ha), DWF=[0.0](cms), CN/C=[73.58], IA=[1.5](mm), N=[3], TP=[0.046]hrs, END=-1

\*%-----|-----|
CALIB NASHYD ID=[4] NHYD=["4004C"], DT=[5]min, AREA=[1.13](ha), DWF=[0.0](cms), CN/C=[73.58], IA=[1.5](mm), N=[3], TP=[0.110]hrs, END=-1

\*%-----|-----|
\*#####
\*# NEW FELLOWSHIP CHURCH - WEST DRAINAGE TO GRINDSTONE TRIB 4 #
\*#####

CALIB STANDHYD ID=[5] NHYD=["4010A"], DT=[5](min), AREA=[0.35](ha), XIMP=[0.63], TIMP=[0.63], DWF=[0.0](cms), LOSS=[2], SCS curve number CN=[73.58], Pervious surfaces: IAper=[2.5](mm), SLPP=[1](%), LGP=[5](m), MNP=[0.035], SCP=[0](min), Impervious surfaces: IAimp=[0.5](mm), SLPI=[1](%), LGI=[30](m), MNI=[0.013], SCI=[0](min), END=-1

\*%-----|-----|
CALIB NASHYD ID=[6] NHYD=["4010B"], DT=[5]min, AREA=[0.21](ha), DWF=[0.0](cms), CN/C=[73.58], IA=[1.5](mm), N=[3], TP=[0.040]hrs, END=-1

\*%-----|-----|
CALIB STANDHYD ID=[7] NHYD=["4010C"], DT=[5](min), AREA=[0.14](ha), XIMP=[0.36], TIMP=[0.36], DWF=[0.0](cms), LOSS=[2], SCS curve number CN=[73.58], Pervious surfaces: IAper=[2.5](mm), SLPP=[30](%), LGP=[5](m), MNP=[0.035], SCP=[0](min), Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%), LGI=[20](m), MNI=[0.013], SCI=[0](min), END=-1

\*#####
\*\*\*ADD HYD IDsum=[8], NHYD=["PND3IN"], IDs to add=[5+7]
\*\*\*%-----|-----|

\*\*\*ROUTE RESERVOIR IDout=[7], NHYD=["SWM-3"], IDin=[8], RDT=[1](min),
\*\*\*
\*\*\* TABLE of ( OUTFLOW-STORAGE ) values
\*\*\* (cms) - (ha-m)
\*\*\* [ 0.0 , 0.0 ]
\*\*\* [ 0.0001 , 0.0075]
\*\*\* [ 0.0120 , 0.0105]
\*\*\* [ 0.0203 , 0.0134]
\*\*\* [ 0.0261 , 0.0161]
\*\*\* [ 0.0441 , 0.0184]
\*\*\* [ 0.0579 , 0.0202]
\*\*\* [ 0.0682 , 0.0216]
\*\*\* [ -1 , -1 ] (max twenty pts)
\*\*\* IDovf=[9], NHYDovf=["OVF"]

\*\*\*%-----|-----|
\*\*\*ADD HYD IDsum=[5], NHYD=["PND3OUT"], IDs to add=[7+9]
\*\*\*%-----|-----|

ADD HYD IDsum=[8], NHYD=["WestSite"], IDs to add=[5+6+7]
\*%-----|-----|

ADD HYD IDsum=[9], NHYD=["4008.1"], IDs to add=[1+2+3+4+8]
\*%-----|-----|

\*#####
\*# NEW FELLOWSHIP CHURCH - EAST MAJOR DRAINAGE TO GRINDSTONE TRIB 4 #
\*#####
CALIB STANDHYD ID=[1] NHYD=["4011A"], DT=[5](min), AREA=[0.12](ha),

```

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XIMP=[0.38], TIMP=[0.38], DWF=[0.0](cms), LOSS=[2],
SCS curve number CN=[73.58],
Pervious surfaces: IAper=[2.5](mm), SLPP=[30](%),
LGP=[5](m), MNP=[0.035], SCP=[0](min),
Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
LGI=[30](m), MNI=[0.013], SCI=[0](min),
END=-1
CALIB STANDHYD ID=[2] NHYD=["4011B"], DT=[5](min), AREA=[0.10](ha),
XIMP=[0.45], TIMP=[0.45], DWF=[0.0](cms), LOSS=[2],
SCS curve number CN=[73.58],
Pervious surfaces: IAper=[2.5](mm), SLPP=[30](%),
LGP=[5](m), MNP=[0.035], SCP=[0](min),
Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
LGI=[30](m), MNI=[0.013], SCI=[0](min),
END=-1
#####
CALIB NASHYD ID=[3] NHYD=["4004D"], DT=[5]min, AREA=[0.57](ha),
DWF=[0.0](cms), CN/C=[73.58], IA=[1.5](mm),
N=[3], TP=[0.063]hrs,
END=-1
*%-----|-----
CALIB NASHYD ID=[4] NHYD=["4011ext"], DT=[5]min, AREA=[0.18](ha),
DWF=[0.0](cms), CN/C=[73.58], IA=[1.5](mm),
N=[3], TP=[0.027]hrs,
END=-1
*%-----|-----
***ADD HYD IDsum=[5], NHYD=["PND1IN"], IDs to add=[1+4]
****%-----|-----
***ROUTE RESERVOIR IDout=[6], NHYD=["SWM-1"], IDin=[5],
RDT=[1](min),
*** TABLE of ( OUTFLOW-STORAGE ) values
*** (cms) - (ha-m)
*** [ 0.0 , 0.0 ]
*** [ 0.0026 , 0.0010 ]
*** [ 0.0044 , 0.0020 ]
*** [ 0.0057 , 0.0030 ]
*** [ 0.0068 , 0.0041 ]
*** [ 0.0102 , 0.0051 ]
*** [ 0.0129 , 0.0063 ]
*** [ 0.0149 , 0.0074 ]
*** [ 0.0167 , 0.0086 ]
*** [ -1 , -1 ] (max twenty pts)
*** IDovf=[7], NHYDovf=["OVF"]
****%-----|-----
***ADD HYD IDsum=[8], NHYD=["PND1OUT"], IDs to add=[6+7]
****%-----|-----
***ROUTE RESERVOIR IDout=[1], NHYD=["SWM-2"], IDin=[2],
RDT=[1](min),
*** TABLE of ( OUTFLOW-STORAGE ) values
*** (cms) - (ha-m)
*** [ 0.0 , 0.0 ]
*** [ 0.0017 , 0.0008 ]
*** [ 0.0030 , 0.0017 ]
*** [ 0.0038 , 0.0025 ]
*** [ 0.0045 , 0.0034 ]
*** [ 0.0051 , 0.0044 ]
*** [ 0.0057 , 0.0053 ]
*** [ -1 , -1 ] (max twenty pts)
*** IDovf=[4], NHYDovf=["OVF"]
****%-----|-----
***ADD HYD IDsum=[7], NHYD=["PND2OUT"], IDs to add=[1+4]
****%-----|-----
ADD HYD IDsum=[5], NHYD=["4011"], IDs to add=[1+2+3+4]

```

FUT.dat

#####  
 \* MINOR FLOW CAPACITY DETERMINED BY EXISTING 5 YEAR PEAK FLOW  
 #####

DIVERT HYD IDin=[5 ], NIDout=[2 ]max five,  
 outflow hydrographs (ID, NHYD)=[2,"Minor"/3,"Major"]  
 flow distribution table: (modify as necessary)  
 Note: all flows are in (cms)

QIDi + QIDii = QTOTAL  
 [ 0 + 0 = 0 ]  
 [ 0.067 + 0 = 0.067 ]  
 [ 0.067 + 2 = 2.067 ]  
 [ 0.067 + 10 = 10.067 ]  
 [ 0 + 0 = 0 ] end

#####  
 \*%-----|-----|

ROUTE CHANNEL IDout=[1], NHYD=["4.007"], IDin=[3],  
 RDT=[2](min),  
 CHLGTH=[250](m), CHSLOPE=[2.40](%),  
 FPSLOPE=[2.40](%),  
 SECNUM=[5], NSEG=[3]  
 ( SEGROUGH, SEGDIST (m))=[0.035, 2.4, -0.035, 4.0, 0.035, 6.4]

NSEG times  
 ( DISTANCE (m), ELEVATION (m))=[0, 131.75]  
 [2.4, 131.50]  
 [3.7, 130.75]  
 [4.0, 130.75]  
 [6.4, 131.75]

\*%-----|-----|  
 ADD HYD IDsum=[3], NHYD=["4008.15"], IDs to add=[9+1]  
 \*%-----|-----|

CALIB NASHYD ID=[6], NHYD=["4006"], DT=[5]min, AREA=[3.37](ha),  
 DWF=[0.0](cms), CN/C=[69.10], IA=[1.5](mm),  
 N=[3], TP=[0.116]hrs,  
 END=-1

\*%-----|-----|  
 CALIB STANDHYD ID=[4] NHYD=["4007"], DT=[5](min), AREA=[5.04](ha),  
 XIMP=[0.315], TIMP=[0.315], DWF=[0.0](cms), LOSS=[2],  
 SCS curve number CN=[72.75],  
 Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),  
 LGP=[53](m), MNP=[0.035], SCP=[0](min),  
 Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),  
 LGI=[168](m), MNI=[0.013], SCI=[0](min),  
 END=-1

\*%-----|-----|  
 CALIB STANDHYD ID=[5] NHYD=["4008"], DT=[5](min), AREA=[2.42](ha),  
 XIMP=[.218], TIMP=[.218], DWF=[0.0](cms), LOSS=[2],  
 SCS curve number CN=[79.33],  
 Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),  
 LGP=[56](m), MNP=[0.035], SCP=[0](min),  
 Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),  
 LGI=[134](m), MNI=[0.013], SCI=[0](min),  
 END=-1

\*%-----|-----|  
 ADD HYD IDsum=[1], NHYD=["4008.2"], IDs to add=[3+4+5+6]  
 \*%-----|-----|

CALIB STANDHYD ID=[3] NHYD=["4009"], DT=[5](min), AREA=[5.11](ha),  
 XIMP=[0.01], TIMP=[.903], DWF=[0.0](cms), LOSS=[2],  
 SCS curve number CN=[73.05],  
 Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),  
 LGP=[180](m), MNP=[0.034], SCP=[0](min),  
 Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),  
 LGI=[310](m), MNI=[0.013], SCI=[0](min),  
 END=-1



FUT.dat

```

*%-----|-----
ADD HYD      IDsum=[5], NHYD=["4009.2"], IDs to add=[1+3]
*%-----|-----
*****PRE-DEVELOPMENT/EXISTING FLOWS
CALIB NASHYD ID=[1] NHYD=["6001"], DT=[5]min, AREA=[2.45](ha),
              DWF=[0.0](cms), CN/C=[62.80], IA=[1.5](mm),
              N=[3], TP=[0.092]hrs,
              END=-1
*%-----|-----
CALIB NASHYD ID=[10] NHYD=["6002"], DT=[5]min, AREA=[11.01](ha),
              DWF=[0.0](cms), CN/C=[74.63], IA=[1.5](mm),
              N=[3], TP=[0.149]hrs,
              END=-1
*%-----|-----
CALIB STANDHYD ID=[3] NHYD=["6004"], DT=[5](min), AREA=[1.46](ha),
               XIMP=[0.01], TIMP=[0.813], DWF=[0.0](cms), LOSS=[2],
               SCS curve number CN=[82.38],
               Pervious surfaces: IAPER=[2.5](mm), SLPP=[3.4](%),
                                   LGP=[60](m), MNP=[0.035], SCP=[0](min),
               Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                   LGI=[121](m), MNI=[0.013], SCI=[0](min),
               END=-1
*%-----|-----
ADD HYD      IDsum=[4], NHYD=["6002.2"], IDs to add=[1+10+3]
*%-----|-----
*****
*Subcatchments associated with Tributary 1
CALIB NASHYD ID=[1] NHYD=["1001"], DT=[5]min, AREA=[47.64](ha),
              DWF=[0.0](cms), CN/C=[64.03], IA=[1.5](mm),
              N=[3], TP=[0.375]hrs,
              END=-1
*%-----|-----
ROUTE CHANNEL IDout=[10], NHYD=["1.002"], IDin=[1],
              RDT=[2](min),
              CHLGTH=[402](m), CHSLOPE=[2.24](%),
                               FPSLOPE=[2.24](%),
              SECNUM=[1], NSEG=[3]
              ( SEGROUGH, SEGDIST (m))=[0.08, 20, -0.05, 51, 0.08, 74] NSEG
times
              ( DISTANCE (m), ELEVATION (m))=[0, 135]
                                                [20, 124]
                                                [32, 123]
                                                [51, 124]
                                                [74, 134.5]
*%-----|-----
CALIB NASHYD ID=[1] NHYD=["1002"], DT=[5]min, AREA=[4.51](ha),
              DWF=[0.0](cms), CN/C=[62.90], IA=[1.5](mm),
              N=[3], TP=[0.171]hrs,
              END=-1
*%-----|-----
ADD HYD      IDsum=[3], NHYD=["1002.2"], IDs to add=[10+1]
*%-----|-----
CALIB NASHYD ID=[1] NHYD=["1003"], DT=[5]min, AREA=[2.41](ha),
              DWF=[0.0](cms), CN/C=[70.45], IA=[1.5](mm),
              N=[3], TP=[0.143]hrs,
              END=-1
*%-----|-----
CALIB STANDHYD ID=[5] NHYD=["1004"], DT=[5](min), AREA=[1.36](ha),
               XIMP=[0.01], TIMP=[0.895], DWF=[0.0](cms), LOSS=[2],
               SCS curve number CN=[74.00],
               Pervious surfaces: IAPER=[2.5](mm), SLPP=[3.4](%),
                                   LGP=[60](m), MNP=[0.035], SCP=[0](min),
               Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),

```

FUT.dat

LGI=[121](m), MNI=[0.013], SCI=[0](min),

END=-1

\*%-----|-----|  
ADD HYD IDsum=[10], NHYD=["1004.2"], IDs to add=[1+3+5]

\*%-----|-----|  
ADD HYD IDsum=[1], NHYD=["1004.22"], IDs to add=[4+10]

\*%-----|-----|  
CALIB NASHYD ID=[10] NHYD=["6003"], DT=[5]min, AREA=[5.59](ha),  
DWF=[0.0](cms), CN/C=[79.03], IA=[1.5](mm)  
N=[3], TP=[0.167]hrs,  
END=-1

\*%-----|-----|  
ADD HYD IDsum=[3], NHYD=["6003.2"], IDs to add=[1+10]

\*%-----|-----|

\*\*\*\*\*  
\*Subcatchments associated with Tributary 2  
CALIB NASHYD ID=[1] NHYD=["2001"], DT=[5]min, AREA=[136.38](ha),  
DWF=[0.0](cms), CN/C=[67.85], IA=[1.5](mm),  
N=[3], TP=[0.519]hrs,  
END=-1

\*%-----|-----|  
ROUTE CHANNEL IDout=[10], NHYD=["2.002"], IDin=[1],  
RDT=[2](min),  
CHLGTH=[933](m), CHSLOPE=[1.5](%),  
FPSLOPE=[1.5](%),  
SECNUM=[2], NSEG=[3]  
( SEGROUGH, SEGDIST (m))=[0.08, 26, -0.05, 53, 0.08, 80] NSEG

times  
( DISTANCE (m), ELEVATION (m))=[0, 139]  
[26, 125]  
[39, 124]  
[53, 125]  
[80, 138]

\*%-----|-----|  
CALIB NASHYD ID=[1] NHYD=["2002"], DT=[5]min, AREA=[7.78](ha),  
DWF=[0.0](cms), CN/C=[62.50], IA=[1.5](mm),  
N=[3], TP=[0.510]hrs,  
END=-1

\*%-----|-----|  
ADD HYD IDsum=[4], NHYD=["2001.2"], IDs to add=[10+1]

\*%-----|-----|  
CALIB STANDHYD ID=[1] NHYD=["2003"], DT=[5](min), AREA=[0.96](ha),  
XIMP=[0.01], TIMP=[.859], DWF=[0.0](cms), LOSS=[2],  
SCS curve number CN=[74.00],  
Pervious surfaces: IAPER=[2.5](mm), SLPP=[3.4](%),  
LGP=[50](m), MNP=[0.035], SCP=[0](min),  
Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),  
LGI=[86](m), MNI=[0.013], SCI=[0](min),  
END=-1

\*%-----|-----|  
ADD HYD IDsum=[10], NHYD=["2002.2"], IDs to add=[1+4]

\*%-----|-----|  
ADD HYD IDsum=[1], NHYD=["2002.22"], IDs to add=[10+3]

\*%-----|-----|  
CALIB NASHYD ID=[10] NHYD=["7001"], DT=[5]min, AREA=[3.11](ha),  
DWF=[0.0](cms), CN/C=[64.28], IA=[1.5](mm),  
N=[3], TP=[0.099]hrs,  
END=-1

\*%-----|-----|  
ADD HYD IDsum=[3], NHYD=["7001.2"], IDs to add=[1+10]

\*%-----|-----|  
CALIB STANDHYD ID=[1] NHYD=["2004"], DT=[5](min), AREA=[2.28](ha),  
XIMP=[0.01], TIMP=[0.395], DWF=[0.0](cms), LOSS=[2],

```

                                FUT.dat
SCS curve number CN=[68.00],
Pervious surfaces: IAPER=[2.5](mm), SLPP=[3.4](%),
                  LGP=[48](m), MNP=[0.035], SCP=[0](min),
Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                  LGI=[195](m), MNI=[0.013], SCI=[0](min),
END=-1
*%-----|-----|
ADD HYD    IDsum=[10], NHYD=["2004.2"], IDs to add=[1+3]
*%-----|-----|
*****
*Subcatchments associated with Tributary 3
CALIB NASHYD ID=[1] NHYD=["3001"], DT=[5]min, AREA=[78.24](ha),
             DWF=[0.0](cms), CN/C=[61.86], IA=[1.5](mm),
             N=[3], TP=[0.437]hrs,
             END=-1
*%-----|-----|
ROUTE CHANNEL IDout=[3], NHYD=["3.002"], IDin=[1],
             RDT=[2](min),
             CHLGTH=[1097](m), CHSLOPE=[9.08](%),
             FPSLOPE=[9.08](%),
             SECNUM=[3], NSEG=[3]
             ( SEGROUGH, SEGDIST (m))=[0.08, 34, -0.05, 59, 0.08, 90] NSEG
times
             ( DISTANCE (m), ELEVATION (m))=[0, 140]
                                             [34, 123]
                                             [48, 123]
                                             [59, 125]
                                             [90, 138]
*%-----|-----|
CALIB NASHYD ID=[1] NHYD=["3002"], DT=[5]min, AREA=[9.19](ha),
             DWF=[0.0](cms), CN/C=[67.83], IA=[1.5](mm),
             N=[3], TP=[0.530]hrs,
             END=-1
*%-----|-----|
ADD HYD    IDsum=[4], NHYD=["3002.2"], IDs to add=[1+3]
*%-----|-----|
CALIB NASHYD ID=[1] NHYD=["3010"], DT=[5]min, AREA=[4.15](ha),
             DWF=[0.0](cms), CN/C=[62.50], IA=[1.5](mm),
             N=[3], TP=[0.108]hrs,
             END=-1
*%-----|-----|
ADD HYD    IDsum=[3], NHYD=["3010.2"], IDs to add=[1+4]
*%-----|-----|
CALIB STANDHYD ID=[1] NHYD=["3003"], DT=[5](min), AREA=[1.99](ha),
              XIMP=[0.482], TIMP=[0.482], DWF=[0.0](cms), LOSS=[2],
              SCS curve number CN=[67.85],
              Pervious surfaces: IAPER=[2.5](mm), SLPP=[3.4](%),
                                LGP=[80.2](m), MNP=[0.035], SCP=[0](min),
              Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                LGI=[82.7](m), MNI=[0.013], SCI=[0](min),
              END=-1
*%-----|-----|
CALIB STANDHYD ID=[4] NHYD=["3004"], DT=[5](min), AREA=[0.40](ha),
              XIMP=[0.701], TIMP=[0.701], DWF=[0.0](cms), LOSS=[2],
              SCS curve number CN=[64.50],
              Pervious surfaces: IAPER=[2.5](mm), SLPP=[3.4](%),
                                LGP=[66.8](m), MNP=[0.035], SCP=[0](min),
              Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                LGI=[68.4](m), MNI=[0.013], SCI=[0](min),
              END=-1
*%-----|-----|

```

```

                                FUT.dat
ADD HYD                        IDsum=[5], NHYD=["3004.2"], IDs to add=[1+4]
*%-----|-----|
CALIB STANDHYD                ID=[1] NHYD=["3005"], DT=[5](min), AREA=[2.80](ha),
                                XIMP=[0.01], TIMP=[.593], DWF=[0.0](cms), LOSS=[2],
                                SCS curve number CN=[64.50],
                                Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),
                                                LGP=[91](m), MNP=[0.035], SCP=[0](min),
                                Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                                LGI=[368](m), MNI=[0.013], SCI=[0](min),
                                END=-1

*%-----|-----|
ADD HYD                        IDsum=[4], NHYD=["3005.2"], IDs to add=[1+2+5]
*%-----|-----|
* ROUTE RESERVOIR            IDOUT=[5], NHYD=["SWM"], IDIN=[4],
*                               RDT=[5](min),
*                               TABLE OF (OUTFLOW-STORAGE) VALUES
*                               (cms) - (ha-m)
*                               [ 0.0 , 0.0 ]
*                               [ 0.006 , 0.0500 ]
*                               [ 0.48 , 0.0900 ]
*                               [ 0.92 , 0.1250 ]
*                               END=-1

*%-----|-----|
ADD HYD                        IDsum=[1], NHYD=["3005.2"], IDs to add=[3+4]
*%-----|-----|
CALIB STANDHYD                ID=[3] NHYD=["3006"], DT=[5](min), AREA=[1.12](ha),
                                XIMP=[0.01], TIMP=[.859], DWF=[0.0](cms), LOSS=[2],
                                SCS curve number CN=[64.50],
                                Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),
                                                LGP=[53](m), MNP=[0.035], SCP=[0](min),
                                Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                                LGI=[94](m), MNI=[0.013], SCI=[0](min),
                                END=-1

*%-----|-----|
ADD HYD                        IDsum=[4], NHYD=["3005.2"], IDs to add=[1+3]
*%-----|-----|
CALIB STANDHYD                ID=[1] NHYD=["3009"], DT=[5](min), AREA=[1.93](ha),
                                XIMP=[0.01], TIMP=[.904], DWF=[0.0](cms), LOSS=[2],
                                SCS curve number CN=[64.50],
                                Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),
                                                LGP=[58](m), MNP=[0.034], SCP=[0](min),
                                Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                                LGI=[217](m), MNI=[0.013], SCI=[0](min),
                                END=-1

*%-----|-----|
ADD HYD                        IDsum=[3], NHYD=["3009.2"], IDs to add=[1+4]
*%-----|-----|
ADD HYD                        IDsum=[1], NHYD=["3009.22"], IDs to add=[10+3]
*%-----|-----|
CALIB STANDHYD                ID=[2] NHYD=["3007"], DT=[5](min), AREA=[2.08](ha),
                                XIMP=[0.01], TIMP=[.357], DWF=[0.0](cms), LOSS=[2],
                                SCS curve number CN=[72.45],
                                Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),
                                                LGP=[47](m), MNP=[0.034], SCP=[0](min),
                                Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                                LGI=[164](m), MNI=[0.013], SCI=[0](min),
                                END=-1

*%-----|-----|
ADD HYD                        IDsum=[3], NHYD=["3007.2"], IDs to add=[1+2]
*%-----|-----|
CALIB NASHYD                  ID=[1] NHYD=["2005"], DT=[5]min, AREA=[2.85](ha),

```

```

                                FUT.dat
                                DWF=[0.0](cms), CN/C=[87.35], IA=[1.5](mm),
                                N=[3], TP=[0.052]hrs,
                                END=-1
*%-----|-----|
ADD HYD                                IDsum=[2], NHYD=["2005.2"], IDs to add=[1+3]
*%-----|-----|
CALIB STANDHYD                        ID=[1] NHYD=["3008"], DT=[5](min), AREA=[1.61](ha),
                                XIMP=[0.01], TIMP=[.395], DWF=[0.0](cms), LOSS=[2],
                                SCS curve number CN=[74.25],
                                Pervious surfaces: IAPER=[2.5](mm), SLPP=[3.4](%),
                                                LGP=[78](m), MNP=[0.034], SCP=[0](min),
                                Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                                LGI=[164](m), MNI=[0.013], SCI=[0](min),
                                END=-1
*%-----|-----|
ADD HYD                                IDsum=[3], NHYD=["3008.2"], IDs to add=[1+2]
*%-----|-----|
*Subcatchments associated with Tributary 5
CALIB NASHYD                          ID=[1], NHYD=["5001"], DT=[5]min, AREA=[62.5](ha),
                                DWF=[0.0](cms), CN/C=[30.12], IA=[1.5](mm),
                                N=[3], TP=[0.408]hrs,
                                END=-1
*%-----|-----|
ROUTE CHANNEL                          IDout=[2], NHYD=["5.002"], IDin=[1],
                                RDT=[2](min),
                                CHLGTH=[912](m), CHSLOPE=[2.03](%),
                                                FPSLOPE=[2.03](%),
                                SECNUM=[5], NSEG=[3]
                                ( SEGROUGH, SEGDIST (m))=[0.08, 30, -0.05, 55, 0.08, 80] NSEG
times
                                ( DISTANCE (m), ELEVATION (m))=[0, 133]
                                                [30, 122.5]
                                                [41, 122.5]
                                                [55, 123]
                                                [80, 137]
*%-----|-----|
CALIB NASHYD                          ID=[3], NHYD=["5002"], DT=[5]min, AREA=[14.10](ha),
                                DWF=[0.0](cms), CN/C=[33.95], IA=[1.5](mm),
                                N=[3], TP=[0.255]hrs,
                                END=-1
*%-----|-----|
CALIB NASHYD                          ID=[4], NHYD=["5004"], DT=[5]min, AREA=[3.48](ha),
                                DWF=[0.0](cms), CN/C=[78.00], IA=[1.5](mm),
                                N=[3], TP=[0.105]hrs,
                                END=-1
*%-----|-----|
ADD HYD                                IDsum=[5], NHYD=["5002.2"], IDs to add=[2+3+4]
*%-----|-----|
CALIB NASHYD                          ID=[1], NHYD=["5003"], DT=[5]min, AREA=[2.65](ha),
                                DWF=[0.0](cms), CN/C=[61.00], IA=[1.5](mm),
                                N=[3], TP=[0.143]hrs,
                                END=-1
*%-----|-----|
ADD HYD                                IDsum=[2], NHYD=["5003.2"], IDs to add=[1+5]
*%-----|-----|
* Maximum Drainage Area to Swale--Nevarc Drive
CALIB STANDHYD                        ID=[1] NHYD=["SWALE"], DT=[5](min), AREA=[0.50](ha),
                                XIMP=[0.95], TIMP=[.95], DWF=[0.0](cms), LOSS=[2],
                                SCS curve number CN=[73.05],
                                Pervious surfaces: IAPER=[2.5](mm), SLPP=[1.0](%),
                                                LGP=[12.9](m), MNP=[0.034], SCP=[0](min),
                                Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                                LGI=[56.3](m), MNI=[0.013], SCI=[0](min),

```

FUT.dat

```
END=-1
*%-----|-----|
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[2]
            BurSCS12.005
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[3]
            BurSCS12.010
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[4]
            BurSCS12.025
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[5]
            BurSCS12.050
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[6]
            BurSCS12.100
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[7]
            CHI4HR5M.025
FINISH
```

2 Metric units

```

**#*****
*# Project Name: [Waterdown Road] Project Number: [107016] *
*# Date : 09-14-2007 *
*# Modeller : [KB] *
*# Company : Philips Engineering Ltd *
*# License # : 3569108 *
**#*****

```

```

START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[1]
      "BurSCS12.002"

```

```

READ STORM STORM_FILENAME=["STORM.001"]

```

```

*%-----|
*****

```

```

*Subcatchments associated with Tributary 4
CALIB NASHYD ID=[1], NHYD=["4001"], DT=[5]min, AREA=[5.28](ha),
             DWF=[0.0](cms), CN/C=[65.93], IA=[1.5](mm),
             N=[3], TP=[0.190]hrs,
             END=-1

```

```

*%-----|

```

```

ROUTE CHANNEL IDout=[2], NHYD=["4.003"], IDin=[1],
              RDT=[2](min),
              CHLGTH=[475](m), CHSLOPE=[1.26](%),
                               FPSLOPE=[1.26](%),
              SECNUM=[4], NSEG=[3]
              ( SEGROUGH, SEGDIST (m))=[0.08, 16.5, -0.05, 35, 0.08, 63] NSEG

```

times

```

              ( DISTANCE (m), ELEVATION (m))=[0, 138.5]
                                              [16.5, 131]
                                              [27, 130.5]
                                              [35, 131]
                                              [63, 139]

```

```

*%-----|

```

```

CALIB NASHYD ID=[3], NHYD=["4003"], DT=[5]min, AREA=[3.13](ha),
             DWF=[0.0](cms), CN/C=[62.60], IA=[1.5](mm),
             N=[3], TP=[0.291]hrs,
             END=-1

```

```

*%-----|

```

```

CALIB NASHYD ID=[4], NHYD=["4002"], DT=[5]min, AREA=[6.34](ha),
             DWF=[0.0](cms), CN/C=[73.50], IA=[1.5](mm),
             N=[3], TP=[0.231]hrs,
             END=-1

```

```

*%-----|

```

```

ADD HYD IDsum=[5], NHYD=["4003.2"], IDs to add=[2+3+4]

```

```

*%-----|

```

```

ROUTE CHANNEL IDout=[1], NHYD=["4.006"], IDin=[5],
              RDT=[2](min),
              CHLGTH=[357](m), CHSLOPE=[5.04](%),
                               FPSLOPE=[5.04](%),
              SECNUM=[4b], NSEG=[3]
              ( SEGROUGH, SEGDIST (m))=[0.08, 18, -0.05, 37, 0.08, 45] NSEG

```

times

```

              ( DISTANCE (m), ELEVATION (m))=[0, 121]
                                              [18, 116]
                                              [31, 116]
                                              [37, 117]
                                              [45, 120.5]

```

```

*%-----|

```

```

CALIB NASHYD ID=[2] NHYD=["4004A"], DT=[5]min, AREA=[0.10](ha),
             DWF=[0.0](cms), CN/C=[73.58], IA=[1.5](mm),
             N=[3], TP=[0.028]hrs,
             END=-1

```

```

*%-----|

```

SWM.dat

```

CALIB NASHYD      ID=[3] NHYD=["4004B"], DT=[5]min, AREA=[0.36](ha),
                  DWF=[0.0](cms), CN/C=[73.58], IA=[1.5](mm),
                  N=[3], TP=[0.046]hrs,
                  END=-1
*%-----|-----|
CALIB NASHYD      ID=[4] NHYD=["4004C"], DT=[5]min, AREA=[1.13](ha),
                  DWF=[0.0](cms), CN/C=[73.58], IA=[1.5](mm),
                  N=[3], TP=[0.110]hrs,
                  END=-1
*%-----|-----|
*#####
*# NEW FELLOWSHIP CHURCH - WEST DRAINAGE TO GRINDSTONE TRIB 4 #
*#####
CALIB STANDHYD    ID=[5] NHYD=["4010A"], DT=[5](min), AREA=[0.35](ha),
                  XIMP=[0.63], TIMP=[0.63], DWF=[0.0](cms), LOSS=[2],
                  SCS curve number CN=[73.58],
                  Pervious surfaces: IAPER=[2.5](mm), SLPP=[1](%),
                                      LGP=[5](m), MNP=[0.035], SCP=[0](min),
                  Impervious surfaces: IAIMP=[0.5](mm), SLPI=[1](%),
                                      LGI=[30](m), MNI=[0.013], SCI=[0](min),
                  END=-1
*%-----|-----|
CALIB NASHYD      ID=[6] NHYD=["4010B"], DT=[5]min, AREA=[0.21](ha),
                  DWF=[0.0](cms), CN/C=[73.58], IA=[1.5](mm),
                  N=[3], TP=[0.040]hrs,
                  END=-1
*%-----|-----|
CALIB STANDHYD    ID=[7] NHYD=["4010C"], DT=[5](min), AREA=[0.14](ha),
                  XIMP=[0.36], TIMP=[0.36], DWF=[0.0](cms), LOSS=[2],
                  SCS curve number CN=[73.58],
                  Pervious surfaces: IAPER=[2.5](mm), SLPP=[30](%),
                                      LGP=[5](m), MNP=[0.035], SCP=[0](min),
                  Impervious surfaces: IAIMP=[0.5](mm), SLPI=[1.5](%),
                                      LGI=[20](m), MNI=[0.013], SCI=[0](min),
                  END=-1
*#####
ADD HYD           IDsum=[8], NHYD=["PND3IN"], IDs to add=[5+7]
*%-----|-----|
ROUTE RESERVOIR  IDout=[7], NHYD=["SWM-3"], IDin=[8],
                  RDT=[1](min),
                  TABLE of ( OUTFLOW-STORAGE ) values
                  (cms) - (ha-m)
                  [ 0.0 , 0.0 ]
                  [ 0.0001 , 0.0075]
                  [ 0.0120 , 0.0105]
                  [ 0.0203 , 0.0134]
                  [ 0.0261 , 0.0161]
                  [ 0.0441 , 0.0184]
                  [ 0.0579 , 0.0202]
                  [ 0.0682 , 0.0216]
                  [ -1 , -1 ] (max twenty pts)
                  IDovf=[9], NHYDovf=["OVF"]
*%-----|-----|
ADD HYD           IDsum=[5], NHYD=["PND3OUT"], IDs to add=[7+9]
*%-----|-----|
ADD HYD           IDsum=[8], NHYD=["WestSite"], IDs to add=[5+6]
*%-----|-----|
ADD HYD           IDsum=[9], NHYD=["4008.1"], IDs to add=[1+2+3+4+8]
*%-----|-----|
*#####
*# NEW FELLOWSHIP CHURCH - EAST MAJOR DRAINAGE TO GRINDSTONE TRIB 4 #
*#####
CALIB STANDHYD    ID=[1] NHYD=["4011A"], DT=[5](min), AREA=[0.12](ha),

```



```

SWM.dat
XIMP=[0.38], TIMP=[0.38], DWF=[0.0](cms), LOSS=[2],
SCS curve number CN=[73.58],
Pervious surfaces: IAper=[2.5](mm), SLPP=[30](%),
LGP=[5](m), MNP=[0.035], SCP=[0](min),
Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
LGI=[30](m), MNI=[0.013], SCI=[0](min),
END=-1
CALIB STANDHYD ID=[2] NHYD=["4011B"], DT=[5](min), AREA=[0.10](ha),
XIMP=[0.45], TIMP=[0.45], DWF=[0.0](cms), LOSS=[2],
SCS curve number CN=[73.58],
Pervious surfaces: IAper=[2.5](mm), SLPP=[30](%),
LGP=[5](m), MNP=[0.035], SCP=[0](min),
Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
LGI=[30](m), MNI=[0.013], SCI=[0](min),
END=-1
*#####
CALIB NASHYD ID=[3] NHYD=["4004D"], DT=[5]min, AREA=[0.57](ha),
DWF=[0.0](cms), CN/C=[73.58], IA=[1.5](mm),
N=[3], TP=[0.063]hrs,
END=-1
*%-----|-----
CALIB NASHYD ID=[4] NHYD=["4011ext"], DT=[5]min, AREA=[0.18](ha),
DWF=[0.0](cms), CN/C=[73.58], IA=[1.5](mm),
N=[3], TP=[0.027]hrs,
END=-1
*%-----|-----
ADD HYD IDsum=[5], NHYD=["PND1IN"], IDs to add=[1+4]
*%-----|-----
ROUTE RESERVOIR IDout=[6], NHYD=["SWM-1"], IDin=[5],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.0026 , 0.0010 ]
[ 0.0044 , 0.0020 ]
[ 0.0057 , 0.0030 ]
[ 0.0068 , 0.0041 ]
[ 0.0102 , 0.0051 ]
[ 0.0129 , 0.0063 ]
[ 0.0149 , 0.0074 ]
[ 0.0167 , 0.0086 ]
[ -1 , -1 ] (max twenty pts)
IDovf=[7], NHYDovf=["OVF"]
*%-----|-----
ADD HYD IDsum=[8], NHYD=["PND1OUT"], IDs to add=[6+7]
*%-----|-----
ROUTE RESERVOIR IDout=[1], NHYD=["SWM-2"], IDin=[2],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.0017 , 0.0008 ]
[ 0.0030 , 0.0017 ]
[ 0.0038 , 0.0025 ]
[ 0.0045 , 0.0034 ]
[ 0.0051 , 0.0044 ]
[ 0.0057 , 0.0053 ]
[ -1 , -1 ] (max twenty pts)
IDovf=[4], NHYDovf=["OVF"]
*%-----|-----
ADD HYD IDsum=[7], NHYD=["PND2OUT"], IDs to add=[1+4]
*%-----|-----
ADD HYD IDsum=[5], NHYD=["4011"], IDs to add=[3+7+8]

```

SWM.dat

#####  
 \* MINOR FLOW CAPACITY DETERMINED BY EXISTING 5 YEAR PEAK FLOW  
 #####

DIVERT HYD IDin=[5 ], NIDout=[2 ]max five,  
 outflow hydrographs (ID, NHYD)=[2,"Minor"/3,"Major"]  
 flow distribution table: (modify as necessary)  
 Note: all flows are in (cms)

QIDi + QIDii = QTOTAL  
 [ 0 + 0 = 0 ]  
 [ 0.067 + 0 = 0.067 ]  
 [ 0.067 + 2 = 2.067 ]  
 [ 0.067 + 10 = 10.067 ]  
 [ 0 + 0 = 0 ] end

#####  
 \*%-----|-----|

ROUTE CHANNEL IDout=[1], NHYD=["4.007"], IDin=[3],  
 RDT=[2](min),  
 CHLGTH=[250](m), CHSLOPE=[2.40](%),  
 FPSLOPE=[2.40](%),  
 SECNUM=[5], NSEG=[3]  
 ( SEGROUGH, SEGDIST (m))=[0.035, 2.4, -0.035, 4.0, 0.035, 6.4]

NSEG times  
 ( DISTANCE (m), ELEVATION (m))=[0, 131.75]  
 [2.4, 131.50]  
 [3.7, 130.75]  
 [4.0, 130.75]  
 [6.4, 131.75]

\*%-----|-----|  
 ADD HYD IDsum=[3], NHYD=["4008.15"], IDs to add=[9+1]

\*%-----|-----|  
 CALIB NASHYD ID=[6], NHYD=["4006"], DT=[5]min, AREA=[3.37](ha),  
 DWF=[0.0](cms), CN/C=[69.10], IA=[1.5](mm),  
 N=[3], TP=[0.116]hrs,  
 END=-1

\*%-----|-----|  
 CALIB STANDHYD ID=[4] NHYD=["4007"], DT=[5](min), AREA=[5.04](ha),  
 XIMP=[0.315], TIMP=[0.315], DWF=[0.0](cms), LOSS=[2],  
 SCS curve number CN=[72.75],  
 Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),  
 LGP=[53](m), MNP=[0.035], SCP=[0](min),  
 Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),  
 LGI=[168](m), MNI=[0.013], SCI=[0](min),  
 END=-1

\*%-----|-----|  
 CALIB STANDHYD ID=[5] NHYD=["4008"], DT=[5](min), AREA=[2.42](ha),  
 XIMP=[.218], TIMP=[.218], DWF=[0.0](cms), LOSS=[2],  
 SCS curve number CN=[79.33],  
 Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),  
 LGP=[56](m), MNP=[0.035], SCP=[0](min),  
 Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),  
 LGI=[134](m), MNI=[0.013], SCI=[0](min),  
 END=-1

\*%-----|-----|  
 ADD HYD IDsum=[1], NHYD=["4008.2"], IDs to add=[3+4+5+6]

\*%-----|-----|  
 CALIB STANDHYD ID=[3] NHYD=["4009"], DT=[5](min), AREA=[5.11](ha),  
 XIMP=[0.01], TIMP=[.903], DWF=[0.0](cms), LOSS=[2],  
 SCS curve number CN=[73.05],  
 Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),  
 LGP=[180](m), MNP=[0.034], SCP=[0](min),  
 Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),  
 LGI=[310](m), MNI=[0.013], SCI=[0](min),  
 END=-1

SWM.dat

```

*%-----|-----
ADD HYD      IDsum=[5], NHYD=["4009.2"], IDs to add=[1+3]
*%-----|-----
*****PRE-DEVELOPMENT/EXISTING FLOWS
CALIB NASHYD ID=[1] NHYD=["6001"], DT=[5]min, AREA=[2.45](ha),
              DWF=[0.0](cms), CN/C=[62.80], IA=[1.5](mm),
              N=[3], TP=[0.092]hrs,
              END=-1
*%-----|-----
CALIB NASHYD ID=[10] NHYD=["6002"], DT=[5]min, AREA=[11.01](ha),
              DWF=[0.0](cms), CN/C=[74.63], IA=[1.5](mm),
              N=[3], TP=[0.149]hrs,
              END=-1
*%-----|-----
CALIB STANDHYD ID=[3] NHYD=["6004"], DT=[5](min), AREA=[1.46](ha),
               XIMP=[0.01], TIMP=[0.813], DWF=[0.0](cms), LOSS=[2],
               SCS curve number CN=[82.38],
               Pervious surfaces: IAPER=[2.5](mm), SLPP=[3.4](%),
                                   LGP=[60](m), MNP=[0.035], SCP=[0](min),
               Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                   LGI=[121](m), MNI=[0.013], SCI=[0](min),
               END=-1
*%-----|-----
ADD HYD      IDsum=[4], NHYD=["6002.2"], IDs to add=[1+10+3]
*%-----|-----
*****
*Subcatchments associated with Tributary 1
CALIB NASHYD ID=[1] NHYD=["1001"], DT=[5]min, AREA=[47.64](ha),
              DWF=[0.0](cms), CN/C=[64.03], IA=[1.5](mm),
              N=[3], TP=[0.375]hrs,
              END=-1
*%-----|-----
ROUTE CHANNEL IDout=[10], NHYD=["1.002"], IDin=[1],
              RDT=[2](min),
              CHLGTH=[402](m), CHSLOPE=[2.24](%),
                               FPSLOPE=[2.24](%),
              SECNUM=[1], NSEG=[3]
              ( SEGROUGH, SEGDIST (m))=[0.08, 20, -0.05, 51, 0.08, 74] NSEG
times
              ( DISTANCE (m), ELEVATION (m))=[0, 135]
                                                [20, 124]
                                                [32, 123]
                                                [51, 124]
                                                [74, 134.5]
*%-----|-----
CALIB NASHYD ID=[1] NHYD=["1002"], DT=[5]min, AREA=[4.51](ha),
              DWF=[0.0](cms), CN/C=[62.90], IA=[1.5](mm),
              N=[3], TP=[0.171]hrs,
              END=-1
*%-----|-----
ADD HYD      IDsum=[3], NHYD=["1002.2"], IDs to add=[10+1]
*%-----|-----
CALIB NASHYD ID=[1] NHYD=["1003"], DT=[5]min, AREA=[2.41](ha),
              DWF=[0.0](cms), CN/C=[70.45], IA=[1.5](mm),
              N=[3], TP=[0.143]hrs,
              END=-1
*%-----|-----
CALIB STANDHYD ID=[5] NHYD=["1004"], DT=[5](min), AREA=[1.36](ha),
               XIMP=[0.01], TIMP=[0.895], DWF=[0.0](cms), LOSS=[2],
               SCS curve number CN=[74.00],
               Pervious surfaces: IAPER=[2.5](mm), SLPP=[3.4](%),
                                   LGP=[60](m), MNP=[0.035], SCP=[0](min),
               Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),

```

SWM.dat

LGI=[121](m), MNI=[0.013], SCI=[0](min),

END=-1

\*%-----|-----|  
ADD HYD IDsum=[10], NHYD=["1004.2"], IDs to add=[1+3+5]

\*%-----|-----|  
ADD HYD IDsum=[1], NHYD=["1004.22"], IDs to add=[4+10]

\*%-----|-----|  
CALIB NASHYD ID=[10] NHYD=["6003"], DT=[5]min, AREA=[5.59](ha),  
DWF=[0.0](cms), CN/C=[79.03], IA=[1.5](mm)  
N=[3], TP=[0.167]hrs,  
END=-1

\*%-----|-----|  
ADD HYD IDsum=[3], NHYD=["6003.2"], IDs to add=[1+10]

\*%-----|-----|  
\*\*\*\*\*

\*Subcatchments associated with Tributary 2

CALIB NASHYD ID=[1] NHYD=["2001"], DT=[5]min, AREA=[136.38](ha),  
DWF=[0.0](cms), CN/C=[67.85], IA=[1.5](mm),  
N=[3], TP=[0.519]hrs,  
END=-1

\*%-----|-----|  
ROUTE CHANNEL IDout=[10], NHYD=["2.002"], IDin=[1],  
RDT=[2](min),  
CHLGTH=[933](m), CHSLOPE=[1.5](%),  
FPSLOPE=[1.5](%),  
SECNUM=[2], NSEG=[3]  
( SEGROUGH, SEGDIST (m))=[0.08, 26, -0.05, 53, 0.08, 80] NSEG

times  
( DISTANCE (m), ELEVATION (m))=[0, 139]  
[26, 125]  
[39, 124]  
[53, 125]  
[80, 138]

\*%-----|-----|  
CALIB NASHYD ID=[1] NHYD=["2002"], DT=[5]min, AREA=[7.78](ha),  
DWF=[0.0](cms), CN/C=[62.50], IA=[1.5](mm),  
N=[3], TP=[0.510]hrs,  
END=-1

\*%-----|-----|  
ADD HYD IDsum=[4], NHYD=["2001.2"], IDs to add=[10+1]

\*%-----|-----|  
CALIB STANDHYD ID=[1] NHYD=["2003"], DT=[5](min), AREA=[0.96](ha),  
XIMP=[0.01], TIMP=[.859], DWF=[0.0](cms), LOSS=[2],  
SCS curve number CN=[74.00],  
Pervious surfaces: IAPER=[2.5](mm), SLPP=[3.4](%),  
LGP=[50](m), MNP=[0.035], SCP=[0](min),  
Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),  
LGI=[86](m), MNI=[0.013], SCI=[0](min),  
END=-1

\*%-----|-----|  
ADD HYD IDsum=[10], NHYD=["2002.2"], IDs to add=[1+4]

\*%-----|-----|  
ADD HYD IDsum=[1], NHYD=["2002.22"], IDs to add=[10+3]

\*%-----|-----|  
CALIB NASHYD ID=[10] NHYD=["7001"], DT=[5]min, AREA=[3.11](ha),  
DWF=[0.0](cms), CN/C=[64.28], IA=[1.5](mm),  
N=[3], TP=[0.099]hrs,  
END=-1

\*%-----|-----|  
ADD HYD IDsum=[3], NHYD=["7001.2"], IDs to add=[1+10]

\*%-----|-----|  
CALIB STANDHYD ID=[1] NHYD=["2004"], DT=[5](min), AREA=[2.28](ha),  
XIMP=[0.01], TIMP=[0.395], DWF=[0.0](cms), LOSS=[2],

```

                                SWM.dat
SCS curve number CN=[68.00],
Pervious surfaces: IAPER=[2.5](mm), SLPP=[3.4](%),
                  LGP=[48](m), MNP=[0.035], SCP=[0](min),
Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                  LGI=[195](m), MNI=[0.013], SCI=[0](min),
END=-1
*%-----|-----|
ADD HYD    IDsum=[10], NHYD=["2004.2"], IDs to add=[1+3]
*%-----|-----|
*****
*Subcatchments associated with Tributary 3
CALIB NASHYD ID=[1] NHYD=["3001"], DT=[5]min, AREA=[78.24](ha),
             DWF=[0.0](cms), CN/C=[61.86], IA=[1.5](mm),
             N=[3], TP=[0.437]hrs,
             END=-1
*%-----|-----|
ROUTE CHANNEL IDout=[3], NHYD=["3.002"], IDin=[1],
             RDT=[2](min),
             CHLGTH=[1097](m), CHSLOPE=[9.08](%),
             FPSLOPE=[9.08](%),
             SECNUM=[3], NSEG=[3]
             ( SEGROUGH, SEGDIST (m))=[0.08, 34, -0.05, 59, 0.08, 90] NSEG
times
             ( DISTANCE (m), ELEVATION (m))=[0, 140]
                                             [34, 123]
                                             [48, 123]
                                             [59, 125]
                                             [90, 138]
*%-----|-----|
CALIB NASHYD ID=[1] NHYD=["3002"], DT=[5]min, AREA=[9.19](ha),
             DWF=[0.0](cms), CN/C=[67.83], IA=[1.5](mm),
             N=[3], TP=[0.530]hrs,
             END=-1
*%-----|-----|
ADD HYD    IDsum=[4], NHYD=["3002.2"], IDs to add=[1+3]
*%-----|-----|
CALIB NASHYD ID=[1] NHYD=["3010"], DT=[5]min, AREA=[4.15](ha),
             DWF=[0.0](cms), CN/C=[62.50], IA=[1.5](mm),
             N=[3], TP=[0.108]hrs,
             END=-1
*%-----|-----|
ADD HYD    IDsum=[3], NHYD=["3010.2"], IDs to add=[1+4]
*%-----|-----|
CALIB STANDHYD ID=[1] NHYD=["3003"], DT=[5](min), AREA=[1.99](ha),
              XIMP=[0.482], TIMP=[0.482], DWF=[0.0](cms), LOSS=[2],
              SCS curve number CN=[67.85],
              Pervious surfaces: IAPER=[2.5](mm), SLPP=[3.4](%),
                                LGP=[80.2](m), MNP=[0.035], SCP=[0](min),
              Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                LGI=[82.7](m), MNI=[0.013], SCI=[0](min),
              END=-1
*%-----|-----|
CALIB STANDHYD ID=[4] NHYD=["3004"], DT=[5](min), AREA=[0.40](ha),
              XIMP=[0.701], TIMP=[0.701], DWF=[0.0](cms), LOSS=[2],
              SCS curve number CN=[64.50],
              Pervious surfaces: IAPER=[2.5](mm), SLPP=[3.4](%),
                                LGP=[66.8](m), MNP=[0.035], SCP=[0](min),
              Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                LGI=[68.4](m), MNI=[0.013], SCI=[0](min),
              END=-1
*%-----|-----|

```

```

                                SWM.dat
ADD HYD                          IDsum=[5], NHYD=["3004.2"], IDs to add=[1+4]
*%-----|-----|
CALIB STANDHYD                   ID=[1] NHYD=["3005"], DT=[5](min), AREA=[2.80](ha),
                                XIMP=[0.01], TIMP=[.593], DWF=[0.0](cms), LOSS=[2],
                                SCS curve number CN=[64.50],
                                Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),
                                                LGP=[91](m), MNP=[0.035], SCP=[0](min),
                                Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                                LGI=[368](m), MNI=[0.013], SCI=[0](min),
                                END=-1

*%-----|-----|
ADD HYD                          IDsum=[4], NHYD=["3005.2"], IDs to add=[1+2+5]
*%-----|-----|
* ROUTE RESERVOIR               IDOUT=[5], NHYD=["SWM"], IDIN=[4],
*                                RDT=[5](min),
*                                TABLE OF (OUTFLOW-STORAGE) VALUES
*                                (cms) - (ha-m)
*                                [ 0.0 , 0.0 ]
*                                [ 0.006 , 0.0500 ]
*                                [ 0.48 , 0.0900 ]
*                                [ 0.92 , 0.1250 ]
*                                END=-1

*%-----|-----|
ADD HYD                          IDsum=[1], NHYD=["3005.2"], IDs to add=[3+4]
*%-----|-----|
CALIB STANDHYD                   ID=[3] NHYD=["3006"], DT=[5](min), AREA=[1.12](ha),
                                XIMP=[0.01], TIMP=[.859], DWF=[0.0](cms), LOSS=[2],
                                SCS curve number CN=[64.50],
                                Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),
                                                LGP=[53](m), MNP=[0.035], SCP=[0](min),
                                Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                                LGI=[94](m), MNI=[0.013], SCI=[0](min),
                                END=-1

*%-----|-----|
ADD HYD                          IDsum=[4], NHYD=["3005.2"], IDs to add=[1+3]
*%-----|-----|
CALIB STANDHYD                   ID=[1] NHYD=["3009"], DT=[5](min), AREA=[1.93](ha),
                                XIMP=[0.01], TIMP=[.904], DWF=[0.0](cms), LOSS=[2],
                                SCS curve number CN=[64.50],
                                Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),
                                                LGP=[58](m), MNP=[0.034], SCP=[0](min),
                                Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                                LGI=[217](m), MNI=[0.013], SCI=[0](min),
                                END=-1

*%-----|-----|
ADD HYD                          IDsum=[3], NHYD=["3009.2"], IDs to add=[1+4]
*%-----|-----|
ADD HYD                          IDsum=[1], NHYD=["3009.22"], IDs to add=[10+3]
*%-----|-----|
CALIB STANDHYD                   ID=[2] NHYD=["3007"], DT=[5](min), AREA=[2.08](ha),
                                XIMP=[0.01], TIMP=[.357], DWF=[0.0](cms), LOSS=[2],
                                SCS curve number CN=[72.45],
                                Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),
                                                LGP=[47](m), MNP=[0.034], SCP=[0](min),
                                Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                                LGI=[164](m), MNI=[0.013], SCI=[0](min),
                                END=-1

*%-----|-----|
ADD HYD                          IDsum=[3], NHYD=["3007.2"], IDs to add=[1+2]
*%-----|-----|
CALIB NASHYD                     ID=[1] NHYD=["2005"], DT=[5]min, AREA=[2.85](ha),

```

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                                SWM.dat
                                DWF=[0.0](cms), CN/C=[87.35], IA=[1.5](mm),
                                N=[3], TP=[0.052]hrs,
                                END=-1
*%-----|-----|
ADD HYD                                IDsum=[2], NHYD=["2005.2"], IDs to add=[1+3]
*%-----|-----|
CALIB STANDHYD                        ID=[1] NHYD=["3008"], DT=[5](min), AREA=[1.61](ha),
                                XIMP=[0.01], TIMP=[.395], DWF=[0.0](cms), LOSS=[2],
                                SCS curve number CN=[74.25],
                                Pervious surfaces: IAper=[2.5](mm), SLPP=[3.4](%),
                                                LGP=[78](m), MNP=[0.034], SCP=[0](min),
                                Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                                LGI=[164](m), MNI=[0.013], SCI=[0](min),
                                END=-1
*%-----|-----|
ADD HYD                                IDsum=[3], NHYD=["3008.2"], IDs to add=[1+2]
*%-----|-----|
*Subcatchments associated with Tributary 5
CALIB NASHYD                          ID=[1], NHYD=["5001"], DT=[5]min, AREA=[62.5](ha),
                                DWF=[0.0](cms), CN/C=[30.12], IA=[1.5](mm),
                                N=[3], TP=[0.408]hrs,
                                END=-1
*%-----|-----|
ROUTE CHANNEL                          IDout=[2], NHYD=["5.002"], IDin=[1],
                                RDT=[2](min),
                                CHLGTH=[912](m), CHSLOPE=[2.03](%),
                                                FPSLOPE=[2.03](%),
                                SECNUM=[5], NSEG=[3]
                                ( SEGROUGH, SEGDIST (m))=[0.08, 30, -0.05, 55, 0.08, 80] NSEG
times
                                ( DISTANCE (m), ELEVATION (m))=[0, 133]
                                                [30, 122.5]
                                                [41, 122.5]
                                                [55, 123]
                                                [80, 137]
*%-----|-----|
CALIB NASHYD                          ID=[3], NHYD=["5002"], DT=[5]min, AREA=[14.10](ha),
                                DWF=[0.0](cms), CN/C=[33.95], IA=[1.5](mm),
                                N=[3], TP=[0.255]hrs,
                                END=-1
*%-----|-----|
CALIB NASHYD                          ID=[4], NHYD=["5004"], DT=[5]min, AREA=[3.48](ha),
                                DWF=[0.0](cms), CN/C=[78.00], IA=[1.5](mm),
                                N=[3], TP=[0.105]hrs,
                                END=-1
*%-----|-----|
ADD HYD                                IDsum=[5], NHYD=["5002.2"], IDs to add=[2+3+4]
*%-----|-----|
CALIB NASHYD                          ID=[1], NHYD=["5003"], DT=[5]min, AREA=[2.65](ha),
                                DWF=[0.0](cms), CN/C=[61.00], IA=[1.5](mm),
                                N=[3], TP=[0.143]hrs,
                                END=-1
*%-----|-----|
ADD HYD                                IDsum=[2], NHYD=["5003.2"], IDs to add=[1+5]
*%-----|-----|
* Maximum Drainage Area to Swale--Nevarc Drive
CALIB STANDHYD                        ID=[1] NHYD=["SWALE"], DT=[5](min), AREA=[0.50](ha),
                                XIMP=[0.95], TIMP=[.95], DWF=[0.0](cms), LOSS=[2],
                                SCS curve number CN=[73.05],
                                Pervious surfaces: IAper=[2.5](mm), SLPP=[1.0](%),
                                                LGP=[12.9](m), MNP=[0.034], SCP=[0](min),
                                Impervious surfaces: IAimp=[0.5](mm), SLPI=[1.5](%),
                                                LGI=[56.3](m), MNI=[0.013], SCI=[0](min),

```

SWM.dat

```
END=-1
*%-----|-----|
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[2]
            BurSCS12.005
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[3]
            BurSCS12.010
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[4]
            BurSCS12.025
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[5]
            BurSCS12.050
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[6]
            BurSCS12.100
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[7]
            CHI4HR5M.025
FINISH
```





## **SWMHYMO Output**

ExR.sum

```

=====
SSSSS W W M M H H Y Y M M 000 999 999 =====
S W W W MM MM H H Y Y MM MM 0 0 9 9 9 9
SSSSS W W W M M M H H H H Y M M M 0 0 ## 9 9 9 9 Ver. 4.02
S W W M M H H Y M M 0 0 9999 9999 July 1999
SSSSS W W M M H H Y M M 000 9 9 =====
9 9 9 9 # 3569108
StormWater Management Hydrologic Model 999 999 =====

```

```

*****
***** SWMHYMO-99 Ver/4.02 *****
***** A single event and continuous hydrologic simulation model *****
***** based on the principles of HYMO and its successors *****
***** OTTHYMO-83 and OTTHYMO-89. *****
***** Distributed by: J.F. Sabourin and Associates Inc. *****
***** Ottawa, Ontario: (613) 727-5199 *****
***** Gatineau, Quebec: (819) 243-6858 *****
***** E-Mail: swmhymo@jfsa.Com *****
*****

```

```

+++++
+++++ Licensed user: Philips Engineering Ltd +++++
+++++ Burlington SERIAL#:3569108 +++++
+++++

```

```

*****
***** +++++ PROGRAM ARRAY DIMENSIONS +++++ *****
***** Maximum value for ID numbers : 10 *****
***** Max. number of rainfall points: 15000 *****
***** Max. number of flow points : 15000 *****
*****

```

```

*** DESCRIPTION SUMMARY TABLE HEADERS (units depend on METOUT in START) ***
*** ----- ***
*** ID: Hydrograph IDentification numbers, (1-10). ***
*** NHYD: Hydrograph reference numbers, (6 digits or characters). ***
*** AREA: Drainage area associated with hydrograph, (ac.) or (ha.). ***
*** QPEAK: Peak flow of simulated hydrograph, (ft^3/s) or (m^3/s). ***
*** TpeakDate_hh:mm is the date and time of the peak flow. ***
*** R.V.: Runoff volume of simulated hydrograph, (in) or (mm). ***
*** R.C.: Runoff Coefficient of simulated hydrograph, (ratio). ***
*** *: see WARNING or NOTE message printed at end of run. ***
*** **: see ERROR message printed at end of run. ***
*** ----- ***

```

.....

\*\*\*\*\*

```

***** SUMMARY OUTPUT *****
*****
* DATE: 2016-07-22 TIME: 13:08:09 RUN COUNTER: 001457 *
*****
* Input filename: C:\swmhymo\TPB163~1\ExR.dat *
* Output filename: C:\swmhymo\TPB163~1\ExR.out *
* Summary filename: C:\swmhymo\TPB163~1\ExR.sum *
* User comments: *
* 1: _____ *
* 2: _____ *
* 3: _____ *

```

EXR.sum

\*\*\*\*\*

```

#*****
# Project Name: [Waterdown Road]      Project Number: [107016]      *
# Date       : 09-14-2007              *
# Modeller   : [KB]                    *
# Company    : Philips Engineering Ltd  *
# License #  : 3569108                 *
#*****

```

RUN:COMMAND#

001:0001-----

START

```

[TZERO = .00 hrs on 0]
[METOUT= 2 (1=imperial, 2=metric output)]
[NSTORM= 1 ]
[NRUN = 1 ]

```

001:0002-----

READ STORM

```

Filename = STORM.001
Comment = 2 Year SCS 12 hour City of Burlington (2004)
[SDT=10.00:SDUR= 12.00:PTOT= 42.61]

```

001:0003-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

* CALIB NASHYD      01:6001      2.45      .090 No_date      6:00      8.82 .207
  [CN= 62.8: N= 3.00]
  [Tp= .09:DT= 5.00]

```

001:0004-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

* CALIB NASHYD      02:6002     11.01     .478 No_date      6:00     13.26 .311
  [CN= 74.6: N= 3.00]
  [Tp= .15:DT= 5.00]

```

001:0005-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

* CALIB STANDHYD   03:6004      1.46     .199 No_date      6:00     33.97 .797
  [XIMP=.01:TIMP=.81]
  [LOSS= 2 :CN= 82.4]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]

```

001:0006-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

ADD HYD
      01:6001      2.45     .090 No_date      6:00      8.82 n/a
      + 02:6002     11.01     .478 No_date      6:00     13.26 n/a
      + 03:6004      1.46     .199 No_date      6:00     33.97 n/a
  [DT= 5.00] SUM= 04:6002.2  14.92     .767 No_date      6:00     14.56 n/a

```

001:0007-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

CALIB NASHYD      01:1001     47.64     .796 No_date      6:15      9.19 .216
  [CN= 64.0: N= 3.00]
  [Tp= .38:DT= 5.00]

```

001:0008-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

ROUTE CHANNEL -> 01:1001     47.64     .796 No_date      6:15      9.19 n/a
  [RDT= 1.67] out<- 02:1.002  47.64     .762 No_date      6:22      9.19 n/a
  [L/S/n= 402./2.240/.050]
  {vmax= 1.186:Dmax= .087}

```

001:0009-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

CALIB NASHYD      01:1002      4.51     .117 No_date      6:05      8.85 .208
  [CN= 62.9: N= 3.00]
  [Tp= .17:DT= 5.00]

```

001:0010-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

ADD HYD
      02:1.002     47.64     .762 No_date      6:22      9.19 n/a
      + 01:1002      4.51     .117 No_date      6:05      8.85 n/a
  [DT= 1.67] SUM= 03:1002.2  52.15     .812 No_date      6:20      9.17 n/a

```

001:0011-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

* CALIB NASHYD      01:1003      2.41     .092 No_date      6:00     11.45 .269
  [CN= 70.4: N= 3.00]
  [Tp= .14:DT= 5.00]

```

001:0012-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

* CALIB STANDHYD      05:1004      EXR.sum      1.36      .189 No_date      6:00      34.68 .814
[XIMP=.01:TIMP=.89]
[LOSS= 2 :CN= 74.0]
[Pervious      area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
[Impervious    area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
001:0013-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:1003          2.41          .092 No_date      6:00      11.45 n/a
                + 03:1002.2      52.15         .812 No_date      6:20      9.17 n/a
                + 05:1004          1.36          .189 No_date      6:00      34.68 n/a
[DT= 1.67] SUM= 02:1004.2      55.92         .875 No_date      6:18      9.88 n/a
001:0014-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          04:6002.2      14.92         .767 No_date      6:00      14.56 n/a
                + 02:1004.2      55.92         .875 No_date      6:18      9.88 n/a
[DT= 1.67] SUM= 01:1004.2      70.84         1.518 No_date      6:00      10.87 n/a
001:0015-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD     02:6003          5.59          .265 No_date      6:00      15.58 .366
[CN= 79.0: N= 3.00]
[Tp= .17:DT= 5.00]
001:0016-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:1004.2      70.84         1.518 No_date      6:00      10.87 n/a
                + 02:6003          5.59          .265 No_date      6:00      15.58 n/a
[DT= 1.67] SUM= 03:6003.2      76.43         1.783 No_date      6:00      11.21 n/a
001:0017-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD     01:2001         136.38        2.081 No_date      6:25      10.47 .246
[CN= 67.8: N= 3.00]
[Tp= .52:DT= 5.00]
001:0018-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ROUTE CHANNEL   -> 01:2001         136.38        2.081 No_date      6:25      10.47 n/a
[RDT= 1.67] out<- 02:2.002      136.38        1.832 No_date      6:43      10.47 n/a
[L/S/n= 933./1.500/.050]
{Vmax= .970:Dmax= .318}
001:0019-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD     01:2002          7.78          .099 No_date      6:25      8.73 .205
[CN= 62.5: N= 3.00]
[Tp= .51:DT= 5.00]
001:0020-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          02:2.002         136.38        1.832 No_date      6:43      10.47 n/a
                + 01:2002          7.78          .099 No_date      6:25      8.73 n/a
[DT= 1.67] SUM= 04:2001.2      144.16        1.920 No_date      6:42      10.37 n/a
001:0021-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 01:2003          .96           .130 No_date      6:00      32.58 .765
[XIMP=.01:TIMP=.86]
[LOSS= 2 :CN= 74.0]
[Pervious      area: IAper= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]
[Impervious    area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]
001:0022-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:2003          .96           .130 No_date      6:00      32.58 n/a
                + 04:2001.2      144.16        1.920 No_date      6:42      10.37 n/a
[DT= 1.67] SUM= 02:2002.2      145.12        1.929 No_date      6:42      10.52 n/a
001:0023-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          02:2002.2      145.12        1.929 No_date      6:42      10.52 n/a
                + 03:6003.2      76.43         1.783 No_date      6:00      11.21 n/a
[DT= 1.67] SUM= 01:2002.2      221.55        2.861 No_date      6:30      10.76 n/a
001:0024-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD   02:7001          3.11          .116 No_date      6:00      9.27 .218
[CN= 64.3: N= 3.00]
[Tp= .10:DT= 5.00]
001:0025-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:2002.2      221.55        2.861 No_date      6:30      10.76 n/a
                + 02:7001          3.11          .116 No_date      6:00      9.27 n/a
[DT= 1.67] SUM= 03:7001.2      224.66        2.883 No_date      6:30      10.74 n/a
001:0026-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 01:2004          2.28          .136 No_date      6:00      15.06 .353

```

EXR.sum

```

[XIMP=.01:TIMP=.40]
[LOSS= 2 :CN= 68.0]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]
001:0027-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:2004          2.28      .136 No_date  6:00  15.06 n/a
      + 03:7001.2      224.66    2.883 No_date  6:30  10.74 n/a
[DT= 1.67] SUM= 10:2004.2      226.94    2.909 No_date  6:30  10.78 n/a
001:0028-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:3001          78.24     1.089 No_date  6:20   8.55 .201
[CN= 61.9: N= 3.00]
[Tp= .44:DT= 5.00]
001:0029-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL   -> 01:3001          78.24     1.089 No_date  6:20   8.55 n/a
[RDT= 1.67] out<- 03:3.002      78.24     1.069 No_date  6:25   8.55 n/a
[L/S/n= 1097./9.080/.050]
{Vmax= 4.589:Dmax= .014}
001:0030-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:3002          9.19      .138 No_date  6:25  10.46 .245
[CN= 67.8: N= 3.00]
[Tp= .53:DT= 5.00]
001:0031-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3002          9.19      .138 No_date  6:25  10.46 n/a
      + 03:3.002      78.24     1.069 No_date  6:25   8.55 n/a
[DT= 1.67] SUM= 04:3002.2      87.43     1.207 No_date  6:25   8.75 n/a
001:0032-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   01:3010          4.15      .141 No_date  6:00   8.73 .205
[CN= 62.5: N= 3.00]
[Tp= .11:DT= 5.00]
001:0033-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3010          4.15      .141 No_date  6:00   8.73 n/a
      + 04:3002.2      87.43     1.207 No_date  6:25   8.75 n/a
[DT= 1.67] SUM= 09:3010.2      91.58     1.236 No_date  6:25   8.75 n/a
001:0034-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3003          1.99      .182 No_date  6:00  25.49 .598
[XIMP=.48:TIMP=.48]
[LOSS= 2 :CN= 67.8]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]
001:0035-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 04:3004          .40       .047 No_date  6:00  32.19 .756
[XIMP=.70:TIMP=.70]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]
001:0036-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3003          1.99      .182 No_date  6:00  25.49 n/a
      + 04:3004          .40       .047 No_date  6:00  32.19 n/a
[DT= 5.00] SUM= 08:3004.2          2.39      .229 No_date  6:00  26.61 n/a
001:0037-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB STANDHYD   07:3005          2.80      .155 No_date  6:00  17.70 .415
[XIMP=.01:TIMP=.59]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]
001:0038-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:4001          5.28      .146 No_date  6:05   9.80 .230
[CN= 65.9: N= 3.00]
[Tp= .19:DT= 5.00]
001:0039-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL   -> 01:4001          5.28      .146 No_date  6:05   9.80 n/a
[RDT= 1.67] out<- 02:4.003          5.28      .105 No_date  6:13   9.80 n/a
[L/S/n= 475./1.260/.050]

```

EXR.sum

```

{Vmax= .561:Dmax= .056}
001:0040-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      03:4003      3.13      .059 No_date    6:10      8.76 .206
  [CN= 62.6: N= 3.00]
  [Tp= .29:DT= 5.00]
001:0041-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      04:4002      6.34      .207 No_date    6:05     12.74 .299
  [CN= 73.5: N= 3.00]
  [Tp= .23:DT= 5.00]
001:0042-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           02:4.003      5.28      .105 No_date    6:13      9.80 n/a
                   + 03:4003      3.13      .059 No_date    6:10      8.76 n/a
                   + 04:4002      6.34      .207 No_date    6:05     12.74 n/a
  [DT= 1.67] SUM= 05:4003.2  14.75     .357 No_date    6:10     10.84 n/a
001:0043-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL    -> 05:4003.2  14.75     .357 No_date    6:10     10.84 n/a
* [RDT= 1.67] out<- 01:4.006  14.75     .346 No_date    6:12     10.84 n/a
  [L/S/n= 357./5.040/.050]
  {Vmax= 1.630:Dmax= .015}
001:0044-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    03:4004A      .64       .038 No_date    6:00     12.77 .300
  [CN= 73.6: N= 3.00]
  [Tp= .06:DT= 5.00]
001:0045-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    04:4004C      1.13      .056 No_date    6:00     12.77 .300
  [CN= 73.6: N= 3.00]
  [Tp= .11:DT= 5.00]
#####
#####
001:0046-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    05:4010      .85       .049 No_date    6:00     12.77 .300
  [CN= 73.6: N= 3.00]
  [Tp= .07:DT= 5.00]
001:0047-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           05:4010      .85       .049 No_date    6:00     12.77 n/a
                   + 03:4004A      .64       .038 No_date    6:00     12.77 n/a
                   + 04:4004C      1.13      .056 No_date    6:00     12.77 n/a
                   + 01:4.006     14.75     .346 No_date    6:12     10.84 n/a
  [DT= 1.67] SUM= 06:4008.1  17.37     .385 No_date    6:08     11.13 n/a
001:0048-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    03:4004B      .57       .033 No_date    6:00     12.77 .300
  [CN= 73.6: N= 3.00]
  [Tp= .06:DT= 5.00]
#####
#####
001:0049-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    04:4011      .09       .006 No_date    6:00     12.77 .300
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]
#####
#####
001:0050-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           03:4004B      .57       .033 No_date    6:00     12.77 n/a
                   + 04:4011      .09       .006 No_date    6:00     12.77 n/a
  [DT= 5.00] SUM= 05:4011      .66       .039 No_date    6:00     12.77 n/a
#####
#####
001:0051-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
DIVERT HYD       -> 05:4011      .66       .039 No_date    6:00     12.77 n/a
  diverted <= 02:Minor  .66       .039 No_date    6:00     12.77 n/a
  diverted <= 03:Major  .00       .000 No_date    0:00      .00 n/a
#####
001:0052-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL    -> 03:Major      .00       .000 No_date    0:00      .00 n/a

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* [RDT= 2.00] out<- 01:4.007
  [L/S/n= 250./2.400/.035]
  {Vmax= .000:Dmax= .000}
001:0053-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          06:4008.1    17.37    .385 No_date    6:08    11.13 n/a
                + 01:4.007      .00      .000 No_date    0:00     .00 n/a
  [DT= 1.67]  SUM= 03:4008.1    17.37    .385 No_date    6:08    11.13 n/a
001:0054-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    06:4006      3.37     .139 No_date    6:00    10.92 .256
  [CN= 69.1: N= 3.00]
  [Tp= .12:DT= 5.00]
001:0055-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 04:4007      5.04     .377 No_date    6:00    21.41 .503
  [XIMP=.31:TIMP=.31]
  [LOSS= 2 :CN= 72.8]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
001:0056-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 05:4008      2.42     .195 No_date    6:00    21.02 .493
  [XIMP=.22:TIMP=.22]
  [LOSS= 2 :CN= 79.3]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
001:0057-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          03:4008.1    17.37    .385 No_date    6:08    11.13 n/a
                + 04:4007      5.04     .377 No_date    6:00    21.41 n/a
                + 05:4008      2.42     .195 No_date    6:00    21.02 n/a
                + 06:4006      3.37     .139 No_date    6:00    10.92 n/a
  [DT= 1.67]  SUM= 01:4008.2    28.20    1.081 No_date    6:00    13.79 n/a
001:0058-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB STANDHYD 03:4009      5.11     .591 No_date    6:00    34.89 .819
  [XIMP=.01:TIMP=.90]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]
001:0059-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:4008.2    28.20    1.081 No_date    6:00    13.79 n/a
                + 03:4009      5.11     .591 No_date    6:00    34.89 n/a
  [DT= 1.67]  SUM= 05:4009.2    33.31    1.673 No_date    6:00    17.03 n/a
001:0060-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          07:3005      2.80     .155 No_date    6:00    17.70 n/a
                + 08:3004.2    2.39     .229 No_date    6:00    26.61 n/a
                + 02:Minor      .66     .039 No_date    6:00    12.77 n/a
  [DT= 5.00]  SUM= 04:3005.2    5.85     .423 No_date    6:00    20.79 n/a
001:0061-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          09:3010.2    91.58    1.236 No_date    6:25     8.75 n/a
                + 04:3005.2     5.85     .423 No_date    6:00    20.79 n/a
  [DT= 1.67]  SUM= 01:3005.2    97.43    1.332 No_date    6:23     9.47 n/a
001:0062-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 03:3006      1.12     .137 No_date    6:00    28.85 .677
  [XIMP=.01:TIMP=.86]
  [LOSS= 2 :CN= 64.5]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]
001:0063-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:3005.2    97.43    1.332 No_date    6:23     9.47 n/a
                + 03:3006      1.12     .137 No_date    6:00    28.85 n/a
  [DT= 1.67]  SUM= 04:3005.2    98.55    1.353 No_date    6:23     9.69 n/a
001:0064-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3009      1.93     .246 No_date    6:00    32.20 .756
  [XIMP=.01:TIMP=.90]
  [LOSS= 2 :CN= 64.5]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]

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EXR.sum

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[Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]
001:0065-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3009          1.93      .246 No_date  6:00  32.20 n/a
                + 04:3005.2      98.55     1.353 No_date  6:23   9.69 n/a
  [DT= 1.67]  SUM= 03:3009.2     100.48     1.484 No_date  6:00  10.12 n/a
001:0066-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          10:2004.2     226.94     2.909 No_date  6:30  10.78 n/a
                + 03:3009.2     100.48     1.484 No_date  6:00  10.12 n/a
  [DT= 1.67]  SUM= 01:3009.2     327.42     4.267 No_date  6:28  10.58 n/a
001:0067-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 02:3007          2.08      .139 No_date  6:00  16.46 .386
  [XIMP=.01:TIMP=.36]
  [LOSS= 2 :CN= 72.4]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
001:0068-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3009.2     327.42     4.267 No_date  6:28  10.58 n/a
                + 02:3007          2.08      .139 No_date  6:00  16.46 n/a
  [DT= 1.67]  SUM= 03:3007.2     329.50     4.301 No_date  6:00  10.62 n/a
001:0069-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   01:2005          2.85      .287 No_date  6:00  21.70 .509
  [CN= 87.3: N= 3.00]
  [Tp= .05:DT= 5.00]
001:0070-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:2005          2.85      .287 No_date  6:00  21.70 n/a
                + 03:3007.2     329.50     4.301 No_date  6:00  10.62 n/a
  [DT= 1.67]  SUM= 02:2005.2     332.35     4.587 No_date  6:00  10.71 n/a
001:0071-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3008          1.61      .114 No_date  6:00  18.03 .423
  [XIMP=.01:TIMP=.40]
  [LOSS= 2 :CN= 74.3]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
001:0072-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3008          1.61      .114 No_date  6:00  18.03 n/a
                + 02:2005.2     332.35     4.587 No_date  6:00  10.71 n/a
  [DT= 1.67]  SUM= 03:3008.2     333.96     4.701 No_date  6:00  10.75 n/a
001:0073-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:5001          62.50     .277 No_date  6:20   2.68 .063
  [CN= 30.1: N= 3.00]
  [Tp= .41:DT= 5.00]
001:0074-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL   -> 01:5001          62.50     .277 No_date  6:20   2.68 n/a
[RDT= 1.67] out<- 02:5.002         62.50     .254 No_date  6:30   2.68 n/a
[L/s/n= 912./2.030/.050]
{Vmax= 1.544:Dmax= .009}
001:0075-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     03:5002          14.10     .101 No_date  6:10   3.16 .074
  [CN= 34.0: N= 3.00]
  [Tp= .25:DT= 5.00]
001:0076-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   04:5004          3.48      .208 No_date  6:00  14.99 .352
  [CN= 78.0: N= 3.00]
  [Tp= .10:DT= 5.00]
001:0077-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          02:5.002          62.50     .254 No_date  6:30   2.68 n/a
                + 03:5002          14.10     .101 No_date  6:10   3.16 n/a
                + 04:5004          3.48      .208 No_date  6:00  14.99 n/a
  [DT= 1.67]  SUM= 05:5002.2      80.08     .380 No_date  6:00   3.30 n/a
001:0078-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   01:5003          2.65      .073 No_date  6:00   8.30 .195
  [CN= 61.0: N= 3.00]
  [Tp= .14:DT= 5.00]

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                                EXR.sum
001:0079-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:5003          2.65      .073 No_date    6:00    8.30  n/a
                + 05:5002.2      80.08      .380 No_date    6:00    3.30  n/a
  [DT= 1.67]  SUM= 02:5003.2      82.73      .453 No_date    6:00    3.46  n/a
001:0080-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD  01:SWALE          .50       .075 No_date    6:00   40.61  .953
  [XIMP=.95:TIMP=.95]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
** END OF RUN : 1

```

\*\*\*\*\*

RUN:COMMAND#

```

002:0001-----
  START
  [TZERO = .00 hrs on 0]
  [METOUT= 2 (1=imperial, 2=metric output)]
  [NSTORM= 1 ]
  [NRUN = 2 ]
#*****
# Project Name: [waterdown Road] Project Number: [107016] *
# Date : 09-14-2007 *
# Modeller : [KB] *
# Company : Philips Engineering Ltd *
# License # : 3569108 *
#*****

```

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002:0002-----
  READ STORM
  Filename = STORM.001
  Comment = 5 Year SCS 12 hour City of Burlington (2004)
  [SDT=10.00:SDUR= 12.00:PTOT= 58.89]
002:0003-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD  01:6001          2.45      .161 No_date    6:00   15.85  .269
  [CN= 62.8: N= 3.00]
  [Tp= .09:DT= 5.00]
002:0004-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD  02:6002          11.01      .835 No_date    6:00   22.92  .389
  [CN= 74.6: N= 3.00]
  [Tp= .15:DT= 5.00]
002:0005-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD  03:6004          1.46      .290 No_date    6:00   49.78  .845
  [XIMP=.01:TIMP=.81]
  [LOSS= 2 :CN= 82.4]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
002:0006-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:6001          2.45      .161 No_date    6:00   15.85  n/a
                + 02:6002          11.01      .835 No_date    6:00   22.92  n/a
                + 03:6004          1.46      .290 No_date    6:00   49.78  n/a
  [DT= 5.00]  SUM= 04:6002.2      14.92      1.286 No_date    6:00   24.39  n/a
002:0007-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD  01:1001          47.64      1.443 No_date    6:15   16.46  .280
  [CN= 64.0: N= 3.00]
  [Tp= .38:DT= 5.00]
002:0008-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL  -> 01:1001          47.64      1.443 No_date    6:15   16.46  n/a
  [RDT= 1.67] out<- 02:1.002      47.64      1.380 No_date    6:22   16.46  n/a

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EXR.sum

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[L/s/n= 402./2.240/.050]
{Vmax= 1.186:Dmax= .157}
002:0009-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      01:1002      4.51      .211 No_date  6:05  15.90 .270
[CN= 62.9: N= 3.00]
[Tp= .17:DT= 5.00]
002:0010-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           02:1.002      47.64     1.380 No_date  6:22  16.46 n/a
                  + 01:1002      4.51      .211 No_date  6:05  15.90 n/a
[DT= 1.67] SUM= 03:1002.2  52.15     1.471 No_date  6:20  16.42 n/a
002:0011-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    01:1003      2.41      .163 No_date  6:00  20.09 .341
[CN= 70.4: N= 3.00]
[Tp= .14:DT= 5.00]
002:0012-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 05:1004      1.36      .273 No_date  6:00  50.56 .858
[XIMP=.01:TIMP=.89]
[LOSS= 2 :CN= 74.0]
[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
002:0013-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           01:1003      2.41      .163 No_date  6:00  20.09 n/a
                  + 03:1002.2  52.15     1.471 No_date  6:20  16.42 n/a
                  + 05:1004      1.36      .273 No_date  6:00  50.56 n/a
[DT= 1.67] SUM= 02:1004.2  55.92     1.570 No_date  6:18  17.40 n/a
002:0014-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           04:6002.2  14.92     1.286 No_date  6:00  24.39 n/a
                  + 02:1004.2  55.92     1.570 No_date  6:18  17.40 n/a
[DT= 1.67] SUM= 01:1004.2  70.84     2.589 No_date  6:00  18.87 n/a
002:0015-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      02:6003      5.59      .455 No_date  6:00  26.40 .448
[CN= 79.0: N= 3.00]
[Tp= .17:DT= 5.00]
002:0016-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           01:1004.2  70.84     2.589 No_date  6:00  18.87 n/a
                  + 02:6003      5.59      .455 No_date  6:00  26.40 n/a
[DT= 1.67] SUM= 03:6003.2  76.43     3.044 No_date  6:00  19.42 n/a
002:0017-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      01:2001     136.38    3.731 No_date  6:25  18.53 .315
[CN= 67.8: N= 3.00]
[Tp= .52:DT= 5.00]
002:0018-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL    -> 01:2001     136.38    3.731 No_date  6:25  18.53 n/a
[RDT= 1.67] out<- 02:2.002  136.38    3.275 No_date  6:42  18.53 n/a
[L/s/n= 933./1.500/.050]
{Vmax= .980:Dmax= .513}
002:0019-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      01:2002      7.78      .181 No_date  6:25  15.70 .267
[CN= 62.5: N= 3.00]
[Tp= .51:DT= 5.00]
002:0020-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           02:2.002     136.38    3.275 No_date  6:42  18.53 n/a
                  + 01:2002      7.78      .181 No_date  6:25  15.70 n/a
[DT= 1.67] SUM= 04:2001.2  144.16    3.434 No_date  6:42  18.38 n/a
002:0021-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:2003      .96       .190 No_date  6:00  48.20 .818
[XIMP=.01:TIMP=.86]
[LOSS= 2 :CN= 74.0]
[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]
002:0022-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           01:2003      .96       .190 No_date  6:00  48.20 n/a
                  + 04:2001.2  144.16    3.434 No_date  6:42  18.38 n/a

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                                EXR. sum
[DT= 1.67]  SUM= 02:2002.2  145.12  3.446 No_date  6:42  18.58  n/a
002:0023-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          02:2002.2  145.12  3.446 No_date  6:42  18.58  n/a
                + 03:6003.2   76.43  3.044 No_date  6:00  19.42  n/a
[DT= 1.67]  SUM= 01:2002.2  221.55  5.100 No_date  6:30  18.87  n/a
002:0024-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   02:7001     3.11    .209 No_date  6:00  16.59  .282
  [CN= 64.3: N= 3.00]
  [Tp= .10:DT= 5.00]
002:0025-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:2002.2  221.55  5.100 No_date  6:30  18.87  n/a
                + 02:7001     3.11    .209 No_date  6:00  16.59  n/a
[DT= 1.67]  SUM= 03:7001.2  224.66  5.139 No_date  6:30  18.84  n/a
002:0026-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:2004     2.28    .240 No_date  6:00  25.57  .434
  [XIMP=.01:TIMP=.40]
  [LOSS= 2 :CN= 68.0]
  [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]
002:0027-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:2004     2.28    .240 No_date  6:00  25.57  n/a
                + 03:7001.2  224.66  5.139 No_date  6:30  18.84  n/a
[DT= 1.67]  SUM= 10:2004.2  226.94  5.181 No_date  6:30  18.91  n/a
002:0028-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:3001    78.24  1.983 No_date  6:20  15.39  .261
  [CN= 61.9: N= 3.00]
  [Tp= .44:DT= 5.00]
002:0029-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL   -> 01:3001    78.24  1.983 No_date  6:20  15.39  n/a
  [RDT= 1.67] out<- 03:3.002  78.24  1.948 No_date  6:23  15.39  n/a
  [L/S/n= 1097./9.080/.050]
  {Vmax= 4.589:Dmax= .025}
002:0030-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:3002     9.19    .247 No_date  6:25  18.52  .314
  [CN= 67.8: N= 3.00]
  [Tp= .53:DT= 5.00]
002:0031-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3002     9.19    .247 No_date  6:25  18.52  n/a
                + 03:3.002   78.24  1.948 No_date  6:23  15.39  n/a
[DT= 1.67]  SUM= 04:3002.2  87.43  2.194 No_date  6:25  15.72  n/a
002:0032-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   01:3010     4.15    .254 No_date  6:00  15.70  .267
  [CN= 62.5: N= 3.00]
  [Tp= .11:DT= 5.00]
002:0033-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3010     4.15    .254 No_date  6:00  15.70  n/a
                + 04:3002.2  87.43  2.194 No_date  6:25  15.72  n/a
[DT= 1.67]  SUM= 09:3010.2  91.58  2.245 No_date  6:23  15.72  n/a
002:0034-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3003     1.99    .281 No_date  6:00  37.47  .636
  [XIMP=.48:TIMP=.48]
  [LOSS= 2 :CN= 67.8]
  [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]
002:0035-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 04:3004     .40     .068 No_date  6:00  45.78  .777
  [XIMP=.70:TIMP=.70]
  [LOSS= 2 :CN= 64.5]
  [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]
002:0036-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3003     1.99    .281 No_date  6:00  37.47  n/a
                + 04:3004     .40     .068 No_date  6:00  45.78  n/a

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                                EXR.sum
[DT= 5.00]  SUM= 08:3004.2      2.39   .350 No_date   6:00   38.86  n/a
002:0037-----ID:NHYD-----AREA---QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB STANDHYD      07:3005      2.80   .273 No_date   6:00   29.33  .498
[XIMP=.01:TIMP=.59]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]
002:0038-----ID:NHYD-----AREA---QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD        01:4001      5.28   .263 No_date   6:05   17.46  .296
[CN= 65.9: N= 3.00]
[Tp= .19:DT= 5.00]
002:0039-----ID:NHYD-----AREA---QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL      -> 01:4001      5.28   .263 No_date   6:05   17.46  n/a
[RDT= 1.67] out<- 02:4.003      5.28   .189 No_date   6:13   17.46  n/a
[L/S/n= 475./1.260/.050]
{Vmax= .561:Dmax= .101}
002:0040-----ID:NHYD-----AREA---QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD        03:4003      3.13   .108 No_date   6:10   15.75  .267
[CN= 62.6: N= 3.00]
[Tp= .29:DT= 5.00]
002:0041-----ID:NHYD-----AREA---QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD        04:4002      6.34   .364 No_date   6:05   22.11  .375
[CN= 73.5: N= 3.00]
[Tp= .23:DT= 5.00]
002:0042-----ID:NHYD-----AREA---QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD
                + 02:4.003      5.28   .189 No_date   6:13   17.46  n/a
                + 03:4003      3.13   .108 No_date   6:10   15.75  n/a
                + 04:4002      6.34   .364 No_date   6:05   22.11  n/a
[DT= 1.67]  SUM= 05:4003.2      14.75   .634 No_date   6:10   19.10  n/a
002:0043-----ID:NHYD-----AREA---QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL      -> 05:4003.2    14.75   .634 No_date   6:10   19.10  n/a
* [RDT= 1.67] out<- 01:4.006    14.75   .616 No_date   6:12   19.10  n/a
[L/S/n= 357./5.040/.050]
{Vmax= 1.630:Dmax= .028}
002:0044-----ID:NHYD-----AREA---QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      03:4004A      .64    .066 No_date   6:00   22.17  .376
[CN= 73.6: N= 3.00]
[Tp= .06:DT= 5.00]
002:0045-----ID:NHYD-----AREA---QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:4004C      1.13   .098 No_date   6:00   22.17  .376
[CN= 73.6: N= 3.00]
[Tp= .11:DT= 5.00]
#####
#####
002:0046-----ID:NHYD-----AREA---QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      05:4010      .85    .085 No_date   6:00   22.17  .376
[CN= 73.6: N= 3.00]
[Tp= .07:DT= 5.00]
002:0047-----ID:NHYD-----AREA---QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD
                + 05:4010      .85    .085 No_date   6:00   22.17  n/a
                + 03:4004A      .64    .066 No_date   6:00   22.17  n/a
                + 04:4004C      1.13   .098 No_date   6:00   22.17  n/a
                + 01:4.006    14.75   .616 No_date   6:12   19.10  n/a
[DT= 1.67]  SUM= 06:4008.1    17.37   .684 No_date   6:08   19.56  n/a
002:0048-----ID:NHYD-----AREA---QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      03:4004B      .57    .058 No_date   6:00   22.17  .376
[CN= 73.6: N= 3.00]
[Tp= .06:DT= 5.00]
#####
#####
002:0049-----ID:NHYD-----AREA---QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:4011      .09    .009 No_date   6:00   22.17  .376
[CN= 73.6: N= 3.00]

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EXR.sum

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[TP= .03:DT= 5.00]
#####
002:0050-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          03:4004B      .57      .058 No_date  6:00  22.17  n/a
                + 04:4011      .09      .009 No_date  6:00  22.17  n/a
[DT= 5.00] SUM= 05:4011      .66      .067 No_date  6:00  22.17  n/a
#####
002:0051-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
DIVERT HYD      -> 05:4011      .66      .067 No_date  6:00  22.17  n/a
  diverted <= 02:Minor  .66      .067 No_date  6:00  22.17  n/a
  diverted <= 03:Major  .00      .000 No_date  6:00  22.17  n/a
#####
002:0052-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL   -> 03:Major      .00      .000 No_date  6:00  22.17  n/a
* [RDT= 1.67] out<- 01:4.007    .00      .000 No_date  6:03  22.17  n/a
  [L/S/n= 250./2.400/.035]
  {Vmax= .530:Dmax= .001}
002:0053-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          06:4008.1    17.37    .684 No_date  6:08  19.56  n/a
                + 01:4.007      .00      .000 No_date  6:03  22.17  n/a
[DT= 1.67] SUM= 03:4008.1    17.37    .684 No_date  6:08  19.57  n/a
002:0054-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   06:4006      3.37     .246 No_date  6:00  19.27  .327
  [CN= 69.1: N= 3.00]
  [TP= .12:DT= 5.00]
002:0055-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 04:4007      5.04     .631 No_date  6:00  32.77  .556
  [XIMP=.31:TIMP=.31]
  [LOSS= 2 :CN= 72.8]
  [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAIMP= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
002:0056-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 05:4008      2.42     .317 No_date  6:00  33.02  .561
  [XIMP=.22:TIMP=.22]
  [LOSS= 2 :CN= 79.3]
  [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
  [Impervious area: IAIMP= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
002:0057-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          03:4008.1    17.37    .684 No_date  6:08  19.57  n/a
                + 04:4007      5.04     .631 No_date  6:00  32.77  n/a
                + 05:4008      2.42     .317 No_date  6:00  33.02  n/a
                + 06:4006      3.37     .246 No_date  6:00  19.27  n/a
[DT= 1.67] SUM= 01:4008.2    28.20    1.853 No_date  6:00  23.05  n/a
002:0058-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 03:4009      5.11     .950 No_date  6:00  50.79  .862
  [XIMP=.01:TIMP=.90]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]
  [Impervious area: IAIMP= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]
002:0059-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:4008.2    28.20    1.853 No_date  6:00  23.05  n/a
                + 03:4009      5.11     .950 No_date  6:00  50.79  n/a
[DT= 1.67] SUM= 05:4009.2    33.31    2.802 No_date  6:00  27.30  n/a
002:0060-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          07:3005      2.80     .273 No_date  6:00  29.33  n/a
                + 08:3004.2    2.39     .350 No_date  6:00  38.86  n/a
                + 02:Minor      .66     .067 No_date  6:00  22.17  n/a
[DT= 5.00] SUM= 04:3005.2    5.85     .690 No_date  6:00  32.41  n/a
002:0061-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          09:3010.2    91.58    2.245 No_date  6:23  15.72  n/a
                + 04:3005.2    5.85     .690 No_date  6:00  32.41  n/a
[DT= 1.67] SUM= 01:3005.2    97.43    2.388 No_date  6:23  16.72  n/a

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                                EXR.sum
002:0062-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      03:3006      1.12      .207 No_date      6:00      43.83 .744
  [XIMP=.01:TIMP=.86]
  [LOSS= 2 :CN= 64.5]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]
002:0063-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              01:3005.2    97.43    2.388 No_date      6:23    16.72 n/a
                    + 03:3006      1.12      .207 No_date      6:00    43.83 n/a
  [DT= 1.67] SUM= 04:3005.2    98.55    2.418 No_date      6:23    17.03 n/a
002:0064-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      01:3009      1.93      .364 No_date      6:00    47.75 .811
  [XIMP=.01:TIMP=.90]
  [LOSS= 2 :CN= 64.5]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]
002:0065-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              01:3009      1.93      .364 No_date      6:00    47.75 n/a
                    + 04:3005.2    98.55    2.418 No_date      6:23    17.03 n/a
  [DT= 1.67] SUM= 03:3009.2   100.48    2.517 No_date      6:00    17.62 n/a
002:0066-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              10:2004.2   226.94    5.181 No_date      6:30    18.91 n/a
                    + 03:3009.2   100.48    2.517 No_date      6:00    17.62 n/a
  [DT= 1.67] SUM= 01:3009.2   327.42    7.595 No_date      6:28    18.51 n/a
002:0067-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      02:3007      2.08      .240 No_date      6:00    27.64 .469
  [XIMP=.01:TIMP=.36]
  [LOSS= 2 :CN= 72.4]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
002:0068-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              01:3009.2   327.42    7.595 No_date      6:28    18.51 n/a
                    + 02:3007      2.08      .240 No_date      6:00    27.64 n/a
  [DT= 1.67] SUM= 03:3007.2   329.50    7.637 No_date      6:28    18.57 n/a
002:0069-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD        01:2005      2.85      .453 No_date      6:00    34.98 .594
  [CN= 87.3: N= 3.00]
  [Tp= .05:DT= 5.00]
002:0070-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              01:2005      2.85      .453 No_date      6:00    34.98 n/a
                    + 03:3007.2   329.50    7.637 No_date      6:28    18.57 n/a
  [DT= 1.67] SUM= 02:2005.2   332.35    7.855 No_date      6:00    18.71 n/a
002:0071-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      01:3008      1.61      .196 No_date      6:00    29.88 .507
  [XIMP=.01:TIMP=.40]
  [LOSS= 2 :CN= 74.3]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
002:0072-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              01:3008      1.61      .196 No_date      6:00    29.88 n/a
                    + 02:2005.2   332.35    7.855 No_date      6:00    18.71 n/a
  [DT= 1.67] SUM= 03:3008.2   333.96    8.051 No_date      6:00    18.76 n/a
002:0073-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD        01:5001      62.50      .528 No_date      6:20     5.09 .086
  [CN= 30.1: N= 3.00]
  [Tp= .41:DT= 5.00]
002:0074-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL -> 01:5001      62.50      .528 No_date      6:20     5.09 n/a
  [RDT= 1.67] out<- 02:5.002    62.50      .486 No_date      6:28     5.09 n/a
  [L/S/n= 912./2.030/.050]
  {Vmax= 1.544:Dmax= .018}
002:0075-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD        03:5002     14.10      .191 No_date      6:05     5.97 .101

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EXR.sum

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[CN= 34.0: N= 3.00]
[Tp= .25:DT= 5.00]
002:0076-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:5004      3.48      .355 No_date  6:00  25.53 .433
[CN= 78.0: N= 3.00]
[Tp= .10:DT= 5.00]
002:0077-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           02:5.002      62.50      .486 No_date  6:28  5.09 n/a
                   + 03:5002      14.10      .191 No_date  6:05  5.97 n/a
                   + 04:5004      3.48      .355 No_date  6:00  25.53 n/a
[DT= 1.67] SUM= 05:5002.2  80.08      .690 No_date  6:05  6.14 n/a
002:0078-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      01:5003      2.65      .132 No_date  6:00  14.99 .254
[CN= 61.0: N= 3.00]
[Tp= .14:DT= 5.00]
002:0079-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           01:5003      2.65      .132 No_date  6:00  14.99 n/a
                   + 05:5002.2  80.08      .690 No_date  6:05  6.14 n/a
[DT= 1.67] SUM= 02:5003.2  82.73      .819 No_date  6:00  6.42 n/a
002:0080-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    01:SWALE      .50       .105 No_date  6:00  56.53 .960
[XIMP=.95:TIMP=.95]
[LOSS= 2 :CN= 73.1]
[Pervious area: IAPER= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
[Impervious area: IAIMP= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
** END OF RUN : 2

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RUN:COMMAND#

```

003:0001-----
START
[TZERO = .00 hrs on 0]
[METOUT= 2 (1=imperial, 2=metric output)]
[NSTORM= 1 ]
[NRUN = 3 ]
#*****
# Project Name: [waterdown Road] Project Number: [107016] *
# Date : 09-14-2007 *
# Modeller : [KB] *
# Company : Philips Engineering Ltd *
# License # : 3569108 *
#*****
003:0002-----
READ STORM
Filename = STORM.001
Comment = 10 Year SCS 12 hour City of Burlington (2004)
[SDT=10.00:SDUR= 12.00:PTOT= 69.69]
003:0003-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      01:6001      2.45      .217 No_date  6:00  21.27 .305
[CN= 62.8: N= 3.00]
[Tp= .09:DT= 5.00]
003:0004-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      02:6002      11.01     1.101 No_date  6:00  30.09 .432
[CN= 74.6: N= 3.00]
[Tp= .15:DT= 5.00]
003:0005-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    03:6004      1.46      .349 No_date  6:00  60.37 .866
[XIMP=.01:TIMP=.81]

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EXR.sum

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[LOSS= 2 :CN= 82.4]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
003:0006-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:6001          2.45          .217 No_date    6:00    21.27  n/a
                + 02:6002          11.01         1.101 No_date    6:00    30.09  n/a
                + 03:6004           1.46          .349 No_date    6:00    60.37  n/a
    [DT= 5.00]  SUM= 04:6002.2    14.92         1.667 No_date    6:00    31.60  n/a
003:0007-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD     01:1001          47.64         1.945 No_date    6:15    22.05  .316
    [CN= 64.0: N= 3.00]
    [Tp= .38:DT= 5.00]
003:0008-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ROUTE CHANNEL   -> 01:1001          47.64         1.945 No_date    6:15    22.05  n/a
[RDT= 1.67] out<- 02:1.002          47.64         1.859 No_date    6:22    22.05  n/a
    [L/S/n= 402./2.240/.050]
    {Vmax= 1.186:Dmax= .212}
003:0009-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD     01:1002           4.51          .284 No_date    6:05    21.33  .306
    [CN= 62.9: N= 3.00]
    [Tp= .17:DT= 5.00]
003:0010-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          02:1.002          47.64         1.859 No_date    6:22    22.05  n/a
                + 01:1002           4.51          .284 No_date    6:05    21.33  n/a
    [DT= 1.67]  SUM= 03:1002.2    52.15         1.982 No_date    6:18    21.99  n/a
003:0011-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD   01:1003           2.41          .217 No_date    6:00    26.61  .382
    [CN= 70.4: N= 3.00]
    [Tp= .14:DT= 5.00]
003:0012-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 05:1004           1.36          .329 No_date    6:00    61.18  .878
    [XIMP=.01:TIMP=.89]
    [LOSS= 2 :CN= 74.0]
    [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
    [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
003:0013-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:1003           2.41          .217 No_date    6:00    26.61  n/a
                + 03:1002.2        52.15         1.982 No_date    6:18    21.99  n/a
                + 05:1004           1.36          .329 No_date    6:00    61.18  n/a
    [DT= 1.67]  SUM= 02:1004.2    55.92         2.107 No_date    6:18    23.14  n/a
003:0014-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          04:6002.2        14.92         1.667 No_date    6:00    31.60  n/a
                + 02:1004.2        55.92         2.107 No_date    6:18    23.14  n/a
    [DT= 1.67]  SUM= 01:1004.2    70.84         3.393 No_date    6:00    24.92  n/a
003:0015-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD     02:6003           5.59          .594 No_date    6:00    34.29  .492
    [CN= 79.0: N= 3.00]
    [Tp= .17:DT= 5.00]
003:0016-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:1004.2        70.84         3.393 No_date    6:00    24.92  n/a
                + 02:6003           5.59          .594 No_date    6:00    34.29  n/a
    [DT= 1.67]  SUM= 03:6003.2    76.43         3.987 No_date    6:00    25.61  n/a
003:0017-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD     01:2001          136.38        4.996 No_date    6:25    24.66  .354
    [CN= 67.8: N= 3.00]
    [Tp= .52:DT= 5.00]
003:0018-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ROUTE CHANNEL   -> 01:2001          136.38        4.996 No_date    6:25    24.66  n/a
[RDT= 1.67] out<- 02:2.002          136.38        4.418 No_date    6:40    24.66  n/a
    [L/S/n= 933./1.500/.050]
    {Vmax= 1.007:Dmax= .549}
003:0019-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD     01:2002           7.78          .244 No_date    6:25    21.08  .302

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EXR.sum

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[CN= 62.5: N= 3.00]
[TP= .51:DT= 5.00]
003:0020-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          02:2.002    136.38    4.418 No_date    6:40    24.66    n/a
                + 01:2002      7.78      .244 No_date    6:25    21.08    n/a
[DT= 1.67] SUM= 04:2001.2    144.16    4.637 No_date    6:40    24.47    n/a
003:0021-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 01:2003      .96       .229 No_date    6:00    58.70    .842
[XIMP=.01:TIMP=.86]
[LOSS= 2 :CN= 74.0]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]
003:0022-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:2003      .96       .229 No_date    6:00    58.70    n/a
                + 04:2001.2    144.16    4.637 No_date    6:40    24.47    n/a
[DT= 1.67] SUM= 02:2002.2    145.12    4.652 No_date    6:40    24.69    n/a
003:0023-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          02:2002.2    145.12    4.652 No_date    6:40    24.69    n/a
                + 03:6003.2     76.43    3.987 No_date    6:00    25.61    n/a
[DT= 1.67] SUM= 01:2002.2    221.55    6.865 No_date    6:30    25.01    n/a
003:0024-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD   02:7001      3.11      .280 No_date    6:00    22.21    .319
[CN= 64.3: N= 3.00]
[TP= .10:DT= 5.00]
003:0025-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:2002.2    221.55    6.865 No_date    6:30    25.01    n/a
                + 02:7001      3.11      .280 No_date    6:00    22.21    n/a
[DT= 1.67] SUM= 03:7001.2    224.66    6.916 No_date    6:30    24.97    n/a
003:0026-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 01:2004      2.28      .316 No_date    6:00    33.27    .477
[XIMP=.01:TIMP=.40]
[LOSS= 2 :CN= 68.0]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]
003:0027-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:2004      2.28      .316 No_date    6:00    33.27    n/a
                + 03:7001.2    224.66    6.916 No_date    6:30    24.97    n/a
[DT= 1.67] SUM= 10:2004.2    226.94    6.970 No_date    6:30    25.05    n/a
003:0028-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD     01:3001     78.24    2.680 No_date    6:20    20.68    .297
[CN= 61.9: N= 3.00]
[TP= .44:DT= 5.00]
003:0029-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ROUTE CHANNEL   -> 01:3001     78.24    2.680 No_date    6:20    20.68    n/a
[RDT= 1.67] out<- 03:3.002     78.24    2.634 No_date    6:23    20.68    n/a
[L/s/n= 1097./9.080/.050]
{Vmax= 4.589:Dmax= .034}
003:0030-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD     01:3002     9.19     .331 No_date    6:25    24.65    .354
[CN= 67.8: N= 3.00]
[TP= .53:DT= 5.00]
003:0031-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:3002     9.19     .331 No_date    6:25    24.65    n/a
                + 03:3.002     78.24    2.634 No_date    6:23    20.68    n/a
[DT= 1.67] SUM= 04:3002.2     87.43    2.963 No_date    6:23    21.10    n/a
003:0032-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD     01:3010     4.15     .341 No_date    6:00    21.08    .302
[CN= 62.5: N= 3.00]
[TP= .11:DT= 5.00]
003:0033-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:3010     4.15     .341 No_date    6:00    21.08    n/a
                + 04:3002.2     87.43    2.963 No_date    6:23    21.10    n/a
[DT= 1.67] SUM= 09:3010.2     91.58    3.031 No_date    6:23    21.10    n/a

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                                EXR.sum
003:0034-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      01:3003      1.99      .347 No_date      6:00      45.82 .657
  [XIMP=.48:TIMP=.48]
  [LOSS= 2 :CN= 67.8]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]
003:0035-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      04:3004      .40      .083 No_date      6:00      55.02 .790
  [XIMP=.70:TIMP=.70]
  [LOSS= 2 :CN= 64.5]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]
003:0036-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD      01:3003      1.99      .347 No_date      6:00      45.82 n/a
              + 04:3004      .40      .083 No_date      6:00      55.02 n/a
  [DT= 5.00] SUM= 08:3004.2      2.39      .430 No_date      6:00      47.36 n/a
003:0037-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB STANDHYD      07:3005      2.80      .361 No_date      6:00      37.69 .541
  [XIMP=.01:TIMP=.59]
  [LOSS= 2 :CN= 64.5]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]
003:0038-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      01:4001      5.28      .352 No_date      6:05      23.31 .335
  [CN= 65.9: N= 3.00]
  [Tp= .19:DT= 5.00]
003:0039-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL --> 01:4001      5.28      .352 No_date      6:05      23.31 n/a
  [RDT= 1.67] out<- 02:4.003      5.28      .254 No_date      6:13      23.31 n/a
  [L/S/n= 475./1.260/.050]
  {Vmax= .561:Dmax= .136}
003:0040-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      03:4003      3.13      .145 No_date      6:10      21.14 .303
  [CN= 62.6: N= 3.00]
  [Tp= .29:DT= 5.00]
003:0041-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      04:4002      6.34      .481 No_date      6:05      29.10 .418
  [CN= 73.5: N= 3.00]
  [Tp= .23:DT= 5.00]
003:0042-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD      02:4.003      5.28      .254 No_date      6:13      23.31 n/a
              + 03:4003      3.13      .145 No_date      6:10      21.14 n/a
              + 04:4002      6.34      .481 No_date      6:05      29.10 n/a
  [DT= 1.67] SUM= 05:4003.2      14.75      .846 No_date      6:08      25.34 n/a
003:0043-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL --> 05:4003.2      14.75      .846 No_date      6:08      25.34 n/a
* [RDT= 1.67] out<- 01:4.006      14.75      .822 No_date      6:12      25.34 n/a
  [L/S/n= 357./5.040/.050]
  {Vmax= 1.630:Dmax= .037}
003:0044-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      03:4004A      .64      .086 No_date      6:00      29.17 .419
  [CN= 73.6: N= 3.00]
  [Tp= .06:DT= 5.00]
003:0045-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:4004C      1.13      .129 No_date      6:00      29.17 .419
  [CN= 73.6: N= 3.00]
  [Tp= .11:DT= 5.00]
#####
#####
003:0046-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      05:4010      .85      .112 No_date      6:00      29.17 .419
  [CN= 73.6: N= 3.00]
  [Tp= .07:DT= 5.00]

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                                EXR. sum
003:0047-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                05:4010      .85      .112 No_date    6:00    29.17  n/a
                        + 03:4004A      .64      .086 No_date    6:00    29.17  n/a
                        + 04:4004C      1.13     .129 No_date    6:00    29.17  n/a
                        + 01:4.006     14.75    .822 No_date    6:12    25.34  n/a
  [DT= 1.67]  SUM= 06:4008.1    17.37    .912 No_date    6:08    25.92  n/a
003:0048-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD          03:4004B      .57      .076 No_date    6:00    29.17  .419
  [CN= 73.6: N= 3.00]
  [Tp= .06:DT= 5.00]
#####
#####
003:0049-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD          04:4011      .09      .012 No_date    6:00    29.17  .419
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]
#####
#####
003:0050-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                03:4004B      .57      .076 No_date    6:00    29.17  n/a
                        + 04:4011      .09      .012 No_date    6:00    29.17  n/a
  [DT= 5.00]  SUM= 05:4011      .66      .088 No_date    6:00    29.17  n/a
#####
#####
003:0051-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  DIVERT HYD            -> 05:4011      .66      .088 No_date    6:00    29.17  n/a
                        diverted <= 02:Minor  .63      .067 No_date    6:00    29.17  n/a
                        diverted <= 03:Major   .03      .021 No_date    6:00    29.17  n/a
#####
#####
003:0052-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL        -> 03:Major      .03      .021 No_date    6:00    29.17  n/a
* [RDT= 1.67] out<- 01:4.007      .03      .010 No_date    6:02    29.17  n/a
  [L/S/n= 250./2.400/.035]
  {Vmax= .587:Dmax= .069}
003:0053-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                06:4008.1    17.37    .912 No_date    6:08    25.92  n/a
                        + 01:4.007      .03      .010 No_date    6:02    29.17  n/a
  [DT= 1.67]  SUM= 03:4008.1    17.40    .917 No_date    6:08    25.94  n/a
003:0054-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD          06:4006      3.37     .327 No_date    6:00    25.58  .367
  [CN= 69.1: N= 3.00]
  [Tp= .12:DT= 5.00]
003:0055-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD       04:4007      5.04     .797 No_date    6:00    40.84  .586
  [XIMP=.31:TIMP=.31]
  [LOSS= 2 :CN= 72.8]
  [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAIMP= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
003:0056-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD       05:4008      2.42     .404 No_date    6:00    41.55  .596
  [XIMP=.22:TIMP=.22]
  [LOSS= 2 :CN= 79.3]
  [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
  [Impervious area: IAIMP= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
003:0057-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                03:4008.1    17.40    .917 No_date    6:08    25.94  n/a
                        + 04:4007      5.04     .797 No_date    6:00    40.84  n/a
                        + 05:4008      2.42     .404 No_date    6:00    41.55  n/a
                        + 06:4006      3.37     .327 No_date    6:00    25.58  n/a
  [DT= 1.67]  SUM= 01:4008.2    28.23    2.416 No_date    6:00    29.90  n/a
003:0058-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD       03:4009      5.11     1.152 No_date    6:00    61.41  .881
  [XIMP=.01:TIMP=.90]
  [LOSS= 2 :CN= 73.1]

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EXR.sum

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[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]
003:0059-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:4008.2    28.23    2.416 No_date    6:00    29.90  n/a
                + 03:4009          5.11    1.152 No_date    6:00    61.41  n/a
[DT= 1.67] SUM= 05:4009.2    33.34    3.568 No_date    6:00    34.73  n/a
003:0060-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          07:3005          2.80    .361 No_date    6:00    37.69  n/a
                + 08:3004.2          2.39    .430 No_date    6:00    47.36  n/a
                + 02:Minor          .63    .067 No_date    6:00    29.17  n/a
[DT= 5.00] SUM= 04:3005.2          5.82    .857 No_date    6:00    40.74  n/a
003:0061-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          09:3010.2    91.58    3.031 No_date    6:23    21.10  n/a
                + 04:3005.2          5.82    .857 No_date    6:00    40.74  n/a
[DT= 1.67] SUM= 01:3005.2    97.40    3.207 No_date    6:23    22.27  n/a
003:0062-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 03:3006          1.12    .253 No_date    6:00    54.02  .775
[XIMP=.01:TIMP=.86]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]
003:0063-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3005.2    97.40    3.207 No_date    6:23    22.27  n/a
                + 03:3006          1.12    .253 No_date    6:00    54.02  n/a
[DT= 1.67] SUM= 04:3005.2    98.52    3.243 No_date    6:23    22.64  n/a
003:0064-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3009          1.93    .443 No_date    6:00    58.22  .835
[XIMP=.01:TIMP=.90]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]
003:0065-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3009          1.93    .443 No_date    6:00    58.22  n/a
                + 04:3005.2    98.52    3.243 No_date    6:23    22.64  n/a
[DT= 1.67] SUM= 03:3009.2    100.45    3.310 No_date    6:22    23.32  n/a
003:0066-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          10:2004.2    226.94    6.970 No_date    6:30    25.05  n/a
                + 03:3009.2    100.45    3.310 No_date    6:22    23.32  n/a
[DT= 1.67] SUM= 01:3009.2    327.39    10.196 No_date    6:28    24.52  n/a
003:0067-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 02:3007          2.08    .315 No_date    6:00    35.76  .513
[XIMP=.01:TIMP=.36]
[LOSS= 2 :CN= 72.4]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
003:0068-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3009.2    327.39    10.196 No_date    6:28    24.52  n/a
                + 02:3007          2.08    .315 No_date    6:00    35.76  n/a
[DT= 1.67] SUM= 03:3007.2    329.47    10.249 No_date    6:28    24.59  n/a
003:0069-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   01:2005          2.85    .567 No_date    6:00    44.30  .636
[CN= 87.3: N= 3.00]
[Tp= .05:DT= 5.00]
003:0070-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:2005          2.85    .567 No_date    6:00    44.30  n/a
                + 03:3007.2    329.47    10.249 No_date    6:28    24.59  n/a
[DT= 1.67] SUM= 02:2005.2    332.32    10.331 No_date    6:28    24.76  n/a
003:0071-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3008          1.61    .255 No_date    6:00    38.40  .551
[XIMP=.01:TIMP=.40]
[LOSS= 2 :CN= 74.3]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]

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                                EXR.sum
003:0072-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                    01:3008          1.61      .255 No_date    6:00    38.40  n/a
                                + 02:2005.2    332.32    10.331 No_date    6:28    24.76  n/a
  [DT= 1.67]  SUM= 03:3008.2    333.93    10.536 No_date    6:00    24.83  n/a
003:0073-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD              01:5001          62.50      .736 No_date    6:20     7.07  .101
  [CN= 30.1: N= 3.00]
  [Tp= .41:DT= 5.00]
003:0074-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL -> 01:5001          62.50      .736 No_date    6:20     7.07  n/a
  [RDT= 1.67] out<- 02:5.002      62.50      .676 No_date    6:28     7.07  n/a
  [L/S/n= 912./2.030/.050]
  {Vmax= 1.544:Dmax= .024}
003:0075-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD              03:5002          14.10      .266 No_date    6:05     8.27  .119
  [CN= 34.0: N= 3.00]
  [Tp= .25:DT= 5.00]
003:0076-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB NASHYD              04:5004           3.48      .462 No_date    6:00    33.25  .477
  [CN= 78.0: N= 3.00]
  [Tp= .10:DT= 5.00]
003:0077-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                    02:5.002      62.50      .676 No_date    6:28     7.07  n/a
                                + 03:5002      14.10      .266 No_date    6:05     8.27  n/a
                                + 04:5004           3.48      .462 No_date    6:00    33.25  n/a
  [DT= 1.67]  SUM= 05:5002.2    80.08      .939 No_date    6:05     8.42  n/a
003:0078-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB NASHYD              01:5003           2.65      .179 No_date    6:00    20.17  .289
  [CN= 61.0: N= 3.00]
  [Tp= .14:DT= 5.00]
003:0079-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                    01:5003           2.65      .179 No_date    6:00    20.17  n/a
                                + 05:5002.2    80.08      .939 No_date    6:05     8.42  n/a
  [DT= 1.67]  SUM= 02:5003.2    82.73    1.105 No_date    6:00     8.80  n/a
003:0080-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB STANDHYD          01:SWALE           .50      .125 No_date    6:00    67.13  .963
  [XIMP=.95:TIMP=.95]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
  ** END OF RUN : 3

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RUN:COMMAND#

```

004:0001-----
  START
  [TZERO = .00 hrs on 0]
  [METOUT= 2 (1=imperial, 2=metric output)]
  [NSTORM= 1 ]
  [NRUN = 4 ]
#*****
# Project Name: [Waterdown Road] Project Number: [107016] *
# Date : 09-14-2007 *
# Modeller : [KB] *
# Company : Philips Engineering Ltd *
# License # : 3569108 *
#*****
004:0002-----

```

EXR.sum

READ STORM

Filename = STORM.001

Comment = 25 Year SCS 12 hour City of Burlington (2004)

[SDT=10.00:SDUR= 12.00:PTOT= 83.41]

ID	NHYD	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.
004:0003	* CALIB NASHYD	01:6001	2.45	.294 No_date	6:00	28.87 .346
	[CN= 62.8: N= 3.00]					
	[Tp= .09:DT= 5.00]					
004:0004	* CALIB NASHYD	02:6002	11.01	1.464 No_date	6:00	39.88 .478
	[CN= 74.6: N= 3.00]					
	[Tp= .15:DT= 5.00]					
004:0005	* CALIB STANDHYD	03:6004	1.46	.424 No_date	6:00	73.90 .886
	[XIMP=.01:TIMP=.81]					
	[LOSS= 2 :CN= 82.4]					
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]					
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]					
004:0006	ADD HYD	01:6001	2.45	.294 No_date	6:00	28.87 n/a
		+ 02:6002	11.01	1.464 No_date	6:00	39.88 n/a
		+ 03:6004	1.46	.424 No_date	6:00	73.90 n/a
	[DT= 5.00] SUM=	04:6002.2	14.92	2.183 No_date	6:00	41.40 n/a
004:0007	CALIB NASHYD	01:1001	47.64	2.652 No_date	6:15	29.87 .358
	[CN= 64.0: N= 3.00]					
	[Tp= .38:DT= 5.00]					
004:0008	ROUTE CHANNEL ->	01:1001	47.64	2.652 No_date	6:15	29.87 n/a
	[RDT= 1.67] out<-	02:1.002	47.64	2.533 No_date	6:22	29.87 n/a
	[L/S/n= 402./2.240/.050]					
	{vmax= 1.186:Dmax= .288}					
004:0009	CALIB NASHYD	01:1002	4.51	.387 No_date	6:00	28.95 .347
	[CN= 62.9: N= 3.00]					
	[Tp= .17:DT= 5.00]					
004:0010	ADD HYD	02:1.002	47.64	2.533 No_date	6:22	29.87 n/a
		+ 01:1002	4.51	.387 No_date	6:00	28.95 n/a
	[DT= 1.67] SUM=	03:1002.2	52.15	2.704 No_date	6:18	29.79 n/a
004:0011	* CALIB NASHYD	01:1003	2.41	.292 No_date	6:00	35.60 .427
	[CN= 70.4: N= 3.00]					
	[Tp= .14:DT= 5.00]					
004:0012	* CALIB STANDHYD	05:1004	1.36	.399 No_date	6:00	74.73 .896
	[XIMP=.01:TIMP=.89]					
	[LOSS= 2 :CN= 74.0]					
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]					
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]					
004:0013	ADD HYD	01:1003	2.41	.292 No_date	6:00	35.60 n/a
		+ 03:1002.2	52.15	2.704 No_date	6:18	29.79 n/a
		+ 05:1004	1.36	.399 No_date	6:00	74.73 n/a
	[DT= 1.67] SUM=	02:1004.2	55.92	2.863 No_date	6:17	31.14 n/a
004:0014	ADD HYD	04:6002.2	14.92	2.183 No_date	6:00	41.40 n/a
		+ 02:1004.2	55.92	2.863 No_date	6:17	31.14 n/a
	[DT= 1.67] SUM=	01:1004.2	70.84	4.503 No_date	6:00	33.30 n/a
004:0015	CALIB NASHYD	02:6003	5.59	.781 No_date	6:00	44.94 .539
	[CN= 79.0: N= 3.00]					
	[Tp= .17:DT= 5.00]					

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                                EXR.sum
004:0016-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  ADD HYD                01:1004.2    70.84    4.503 No_date    6:00    33.30  n/a
                        + 02:6003      5.59     .781 No_date    6:00    44.94  n/a
  [DT= 1.67]  SUM= 03:6003.2    76.43    5.284 No_date    6:00    34.15  n/a
004:0017-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  CALIB NASHYD          01:2001     136.38    6.764 No_date    6:25    33.17  .398
  [CN= 67.8: N= 3.00]
  [Tp= .52:DT= 5.00]
004:0018-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  ROUTE CHANNEL  -> 01:2001     136.38    6.764 No_date    6:25    33.17  n/a
  [RDT= 1.67] out<- 02:2.002     136.38    6.026 No_date    6:40    33.17  n/a
  [L/S/n= 933./1.500/.050]
  {Vmax= 1.048:Dmax= .600}
004:0019-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  CALIB NASHYD          01:2002      7.78     .334 No_date    6:25    28.63  .343
  [CN= 62.5: N= 3.00]
  [Tp= .51:DT= 5.00]
004:0020-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  ADD HYD                02:2.002    136.38    6.026 No_date    6:40    33.17  n/a
                        + 01:2002      7.78     .334 No_date    6:25    28.63  n/a
  [DT= 1.67]  SUM= 04:2001.2    144.16    6.327 No_date    6:38    32.93  n/a
004:0021-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  * CALIB STANDHYD      01:2003      .96     .279 No_date    6:00    72.14  .865
  [XIMP=.01:TIMP=.86]
  [LOSS= 2 :CN= 74.0]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]
004:0022-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  ADD HYD                01:2003      .96     .279 No_date    6:00    72.14  n/a
                        + 04:2001.2    144.16    6.327 No_date    6:38    32.93  n/a
  [DT= 1.67]  SUM= 02:2002.2    145.12    6.346 No_date    6:38    33.19  n/a
004:0023-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  ADD HYD                02:2002.2    145.12    6.346 No_date    6:38    33.19  n/a
                        + 03:6003.2    76.43    5.284 No_date    6:00    34.15  n/a
  [DT= 1.67]  SUM= 01:2002.2    221.55    9.366 No_date    6:30    33.52  n/a
004:0024-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  * CALIB NASHYD          02:7001      3.11     .379 No_date    6:00    30.08  .361
  [CN= 64.3: N= 3.00]
  [Tp= .10:DT= 5.00]
004:0025-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  ADD HYD                01:2002.2    221.55    9.366 No_date    6:30    33.52  n/a
                        + 02:7001      3.11     .379 No_date    6:00    30.08  n/a
  [DT= 1.67]  SUM= 03:7001.2    224.66    9.434 No_date    6:30    33.47  n/a
004:0026-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  * CALIB STANDHYD      01:2004      2.28     .420 No_date    6:00    43.67  .524
  [XIMP=.01:TIMP=.40]
  [LOSS= 2 :CN= 68.0]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]
004:0027-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  ADD HYD                01:2004      2.28     .420 No_date    6:00    43.67  n/a
                        + 03:7001.2    224.66    9.434 No_date    6:30    33.47  n/a
  [DT= 1.67]  SUM= 10:2004.2    226.94    9.503 No_date    6:30    33.57  n/a
004:0028-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  CALIB NASHYD          01:3001     78.24    3.668 No_date    6:20    28.13  .337
  [CN= 61.9: N= 3.00]
  [Tp= .44:DT= 5.00]
004:0029-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  ROUTE CHANNEL  -> 01:3001     78.24    3.668 No_date    6:20    28.13  n/a
  [RDT= 1.67] out<- 03:3.002     78.24    3.605 No_date    6:23    28.13  n/a
  [L/S/n= 1097./9.080/.050]
  {Vmax= 4.589:Dmax= .047}
004:0030-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-

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ID	DESCRIPTION	ID:NHYD	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.
	CALIB NASHYD	01:3002	9.19	.449	No_date 6:25	33.15	.397
	[CN= 67.8: N= 3.00]						
	[Tp= .53:DT= 5.00]						
004:0031	ADD HYD	01:3002	9.19	.449	No_date 6:25	33.15	n/a
		+ 03:3.002	78.24	3.605	No_date 6:23	28.13	n/a
	[DT= 1.67] SUM=	04:3002.2	87.43	4.051	No_date 6:23	28.66	n/a
004:0032		ID:NHYD	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.
*	CALIB NASHYD	01:3010	4.15	.465	No_date 6:00	28.63	.343
	[CN= 62.5: N= 3.00]						
	[Tp= .11:DT= 5.00]						
004:0033	ADD HYD	01:3010	4.15	.465	No_date 6:00	28.63	n/a
		+ 04:3002.2	87.43	4.051	No_date 6:23	28.66	n/a
	[DT= 1.67] SUM=	09:3010.2	91.58	4.143	No_date 6:23	28.66	n/a
004:0034		ID:NHYD	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.
*	CALIB STANDHYD	01:3003	1.99	.435	No_date 6:00	56.81	.681
	[XIMP=.48:TIMP=.48]						
	[LOSS= 2 :CN= 67.8]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]						
004:0035		ID:NHYD	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.
*	CALIB STANDHYD	04:3004	.40	.101	No_date 6:00	66.99	.803
	[XIMP=.70:TIMP=.70]						
	[LOSS= 2 :CN= 64.5]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]						
004:0036	ADD HYD	01:3003	1.99	.435	No_date 6:00	56.81	n/a
		+ 04:3004	.40	.101	No_date 6:00	66.99	n/a
	[DT= 5.00] SUM=	08:3004.2	2.39	.535	No_date 6:00	58.51	n/a
004:0037		ID:NHYD	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.
*	CALIB STANDHYD	07:3005	2.80	.535	No_date 6:00	48.87	.586
	[XIMP=.01:TIMP=.59]						
	[LOSS= 2 :CN= 64.5]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]						
004:0038		ID:NHYD	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.
	CALIB NASHYD	01:4001	5.28	.477	No_date 6:05	31.47	.377
	[CN= 65.9: N= 3.00]						
	[Tp= .19:DT= 5.00]						
004:0039	ROUTE CHANNEL ->	01:4001	5.28	.477	No_date 6:05	31.47	n/a
	[RDT= 1.67] out<-	02:4.003	5.28	.345	No_date 6:13	31.47	n/a
	[L/S/n= 475./1.260/.050]						
	{Vmax= .561:Dmax= .184}						
004:0040		ID:NHYD	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.
	CALIB NASHYD	03:4003	3.13	.199	No_date 6:10	28.71	.344
	[CN= 62.6: N= 3.00]						
	[Tp= .29:DT= 5.00]						
004:0041		ID:NHYD	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.
	CALIB NASHYD	04:4002	6.34	.643	No_date 6:05	38.67	.464
	[CN= 73.5: N= 3.00]						
	[Tp= .23:DT= 5.00]						
004:0042	ADD HYD	02:4.003	5.28	.345	No_date 6:13	31.47	n/a
		+ 03:4003	3.13	.199	No_date 6:10	28.71	n/a
		+ 04:4002	6.34	.643	No_date 6:05	38.67	n/a
	[DT= 1.67] SUM=	05:4003.2	14.75	1.139	No_date 6:08	33.98	n/a
004:0043	ROUTE CHANNEL ->	05:4003.2	14.75	1.139	No_date 6:08	33.98	n/a
*	[RDT= 1.67] out<-	01:4.006	14.75	1.108	No_date 6:12	33.98	n/a
	[L/S/n= 357./5.040/.050]						



EXR.sum

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{Vmax= 1.630:Dmax= .049}
004:0044-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      03:4004A      .64      .114 No_date  6:00  38.76 .465
  [CN= 73.6: N= 3.00]
  [Tp= .06:DT= 5.00]
004:0045-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:4004C      1.13     .171 No_date  6:00  38.76 .465
  [CN= 73.6: N= 3.00]
  [Tp= .11:DT= 5.00]
#####
#####
004:0046-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      05:4010       .85     .148 No_date  6:00  38.76 .465
  [CN= 73.6: N= 3.00]
  [Tp= .07:DT= 5.00]
004:0047-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD           05:4010       .85     .148 No_date  6:00  38.76 n/a
                   + 03:4004A       .64     .114 No_date  6:00  38.76 n/a
                   + 04:4004C       1.13    .171 No_date  6:00  38.76 n/a
                   + 01:4.006      14.75   1.108 No_date  6:12  33.98 n/a
  [DT= 1.67]  SUM= 06:4008.1  17.37   1.227 No_date  6:08  34.70 n/a
004:0048-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      03:4004B       .57     .100 No_date  6:00  38.76 .465
  [CN= 73.6: N= 3.00]
  [Tp= .06:DT= 5.00]
#####
#####
004:0049-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:4011       .09     .016 No_date  6:00  38.75 .465
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]
#####
#####
004:0050-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD           03:4004B       .57     .100 No_date  6:00  38.76 n/a
                   + 04:4011       .09     .016 No_date  6:00  38.75 n/a
  [DT= 5.00]  SUM= 05:4011       .66     .116 No_date  6:00  38.76 n/a
#####
#####
004:0051-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  DIVERT HYD      -> 05:4011       .66     .116 No_date  6:00  38.76 n/a
                   diverted <= 02:Minor .60     .067 No_date  6:00  38.76 n/a
                   diverted <= 03:Major .06     .049 No_date  6:00  38.76 n/a
#####
#####
004:0052-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL   -> 03:Major       .06     .049 No_date  6:00  38.76 n/a
* [RDT= 1.67] out<- 01:4.007      .06     .032 No_date  6:02  38.76 n/a
  [L/S/n= 250./2.400/.035]
  {Vmax= .790:Dmax= .113}
004:0053-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD           06:4008.1    17.37   1.227 No_date  6:08  34.70 n/a
                   + 01:4.007       .06     .032 No_date  6:02  38.76 n/a
  [DT= 1.67]  SUM= 03:4008.1    17.43   1.240 No_date  6:08  34.74 n/a
004:0054-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      06:4006       3.37    .440 No_date  6:00  34.32 .411
  [CN= 69.1: N= 3.00]
  [Tp= .12:DT= 5.00]
004:0055-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   04:4007       5.04    1.020 No_date  6:00  51.59 .618
  [XIMP=.31:TIMP=.31]
  [LOSS= 2 :CN= 72.8]
  [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
004:0056-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

```

ID	HYD	AREA	QPEAK	TpeakDate_hh:mm	R.V.	-R.C.
* 004:0057	CALIB STANDHYD	05:4008	2.42	.519 No_date	6:00	52.88 .634
	[XIMP=.22:TIMP=.22]					
	[LOSS= 2 :CN= 79.3]					
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]					
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]					
004:0057	ADD HYD	03:4008.1	17.43	1.240 No_date	6:08	34.74 n/a
		+ 04:4007	5.04	1.020 No_date	6:00	51.59 n/a
		+ 05:4008	2.42	.519 No_date	6:00	52.88 n/a
		+ 06:4006	3.37	.440 No_date	6:00	34.32 n/a
	[DT= 1.67] SUM=	01:4008.2	28.26	3.193 No_date	6:00	39.25 n/a
004:0058	ADD HYD	03:4009	5.11	1.410 No_date	6:00	74.98 .899
* 004:0059	CALIB STANDHYD	03:4009	5.11	1.410 No_date	6:00	74.98 .899
	[XIMP=.01:TIMP=.90]					
	[LOSS= 2 :CN= 73.1]					
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]					
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]					
004:0059	ADD HYD	01:4008.2	28.26	3.193 No_date	6:00	39.25 n/a
		+ 03:4009	5.11	1.410 No_date	6:00	74.98 n/a
	[DT= 1.67] SUM=	05:4009.2	33.37	4.603 No_date	6:00	44.72 n/a
004:0060	ADD HYD	07:3005	2.80	.535 No_date	6:00	48.87 n/a
		+ 08:3004.2	2.39	.535 No_date	6:00	58.51 n/a
		+ 02:Minor	.60	.067 No_date	6:00	38.76 n/a
	[DT= 5.00] SUM=	04:3005.2	5.79	1.138 No_date	6:00	51.81 n/a
004:0061	ADD HYD	09:3010.2	91.58	4.143 No_date	6:23	28.66 n/a
		+ 04:3005.2	5.79	1.138 No_date	6:00	51.81 n/a
	[DT= 1.67] SUM=	01:3005.2	97.37	4.348 No_date	6:23	30.03 n/a
004:0062	ADD HYD	03:3006	1.12	.312 No_date	6:00	67.15 .805
* 004:0063	CALIB STANDHYD	03:3006	1.12	.312 No_date	6:00	67.15 .805
	[XIMP=.01:TIMP=.86]					
	[LOSS= 2 :CN= 64.5]					
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]					
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]					
004:0063	ADD HYD	01:3005.2	97.37	4.348 No_date	6:23	30.03 n/a
		+ 03:3006	1.12	.312 No_date	6:00	67.15 n/a
	[DT= 1.67] SUM=	04:3005.2	98.49	4.392 No_date	6:23	30.45 n/a
004:0064	ADD HYD	01:3009	1.93	.543 No_date	6:00	71.63 .859
* 004:0065	CALIB STANDHYD	01:3009	1.93	.543 No_date	6:00	71.63 .859
	[XIMP=.01:TIMP=.90]					
	[LOSS= 2 :CN= 64.5]					
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]					
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]					
004:0065	ADD HYD	01:3009	1.93	.543 No_date	6:00	71.63 n/a
		+ 04:3005.2	98.49	4.392 No_date	6:23	30.45 n/a
	[DT= 1.67] SUM=	03:3009.2	100.42	4.473 No_date	6:23	31.25 n/a
004:0066	ADD HYD	10:2004.2	226.94	9.503 No_date	6:30	33.57 n/a
		+ 03:3009.2	100.42	4.473 No_date	6:23	31.25 n/a
	[DT= 1.67] SUM=	01:3009.2	327.36	13.873 No_date	6:28	32.86 n/a
004:0067	ADD HYD	02:3007	2.08	.414 No_date	6:00	46.65 .559
* 004:0068	CALIB STANDHYD	02:3007	2.08	.414 No_date	6:00	46.65 .559
	[XIMP=.01:TIMP=.36]					
	[LOSS= 2 :CN= 72.4]					
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]					
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]					
004:0068	ADD HYD	01:3009.2	327.36	13.873 No_date	6:28	32.86 n/a
		+ 02:3007	2.08	.414 No_date	6:00	46.65 n/a

```

                                EXR.sum
[DT= 1.67]  SUM= 03:3007.2  329.44  13.940 No_date  6:28  32.95 n/a
004:0069-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      01:2005      2.85      .714 No_date  6:00  56.53 .678
  [CN= 87.3: N= 3.00]
  [Tp= .05:DT= 5.00]
004:0070-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:2005      2.85      .714 No_date  6:00  56.53 n/a
                    + 03:3007.2  329.44  13.940 No_date  6:28  32.95 n/a
  [DT= 1.67]  SUM= 02:2005.2  332.29  14.042 No_date  6:28  33.15 n/a
004:0071-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   01:3008      1.61      .334 No_date  6:00  49.74 .596
  [XIMP=.01:TIMP=.40]
  [LOSS= 2 :CN= 74.3]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
004:0072-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:3008      1.61      .334 No_date  6:00  49.74 n/a
                    + 02:2005.2  332.29  14.042 No_date  6:28  33.15 n/a
  [DT= 1.67]  SUM= 03:3008.2  333.90  14.097 No_date  6:28  33.23 n/a
004:0073-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD     01:5001      62.50     1.043 No_date  6:20  10.00 .120
  [CN= 30.1: N= 3.00]
  [Tp= .41:DT= 5.00]
004:0074-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL    -> 01:5001      62.50     1.043 No_date  6:20  10.00 n/a
  [RDT= 1.67] out<- 02:5.002     62.50     .959 No_date  6:28  10.00 n/a
  [L/S/n= 912./2.030/.050]
  {Vmax= 1.544:Dmax= .035}
004:0075-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD     03:5002      14.10     .376 No_date  6:05  11.65 .140
  [CN= 34.0: N= 3.00]
  [Tp= .25:DT= 5.00]
004:0076-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD     04:5004      3.48     .605 No_date  6:00  43.69 .524
  [CN= 78.0: N= 3.00]
  [Tp= .10:DT= 5.00]
004:0077-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          02:5.002     62.50     .959 No_date  6:28  10.00 n/a
                    + 03:5002      14.10     .376 No_date  6:05  11.65 n/a
                    + 04:5004      3.48     .605 No_date  6:00  43.69 n/a
  [DT= 1.67]  SUM= 05:5002.2   80.08     1.308 No_date  6:22  11.75 n/a
004:0078-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD     01:5003      2.65     .244 No_date  6:00  27.46 .329
  [CN= 61.0: N= 3.00]
  [Tp= .14:DT= 5.00]
004:0079-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:5003      2.65     .244 No_date  6:00  27.46 n/a
                    + 05:5002.2   80.08     1.308 No_date  6:22  11.75 n/a
  [DT= 1.67]  SUM= 02:5003.2   82.73     1.518 No_date  6:05  12.25 n/a
004:0080-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   01:SWALE      .50      .149 No_date  6:00  80.64 .967
  [XIMP=.95:TIMP=.95]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
** END OF RUN : 4

```

\*\*\*\*\*

EXR.sum

RUN:COMMAND#

005:0001-----

START

[TZERO = .00 hrs on 0]  
 [METOUT= 2 (1=imperial, 2=metric output)]  
 [NSTORM= 1 ]  
 [NRUN = 5 ]

\*\*\*\*\*  
 # Project Name: [Waterdown Road] Project Number: [107016] \*  
 # Date : 09-14-2007 \*  
 # Modeller : [KB] \*  
 # Company : Philips Engineering Ltd \*  
 # License # : 3569108 \*  
 #\*\*\*\*\*

005:0002-----

READ STORM

Filename = STORM.001  
 Comment = 50 Year SCS 12 hour City of Burlington (2004)  
 [SDT=10.00:SDUR= 12.00:PTOT= 93.50]

005:0003-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

\* CALIB NASHYD 01:6001 2.45 .356 No\_date 6:00 34.91 .373  
 [CN= 62.8: N= 3.00]  
 [Tp= .09:DT= 5.00]

005:0004-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

\* CALIB NASHYD 02:6002 11.01 1.746 No\_date 6:00 47.46 .508  
 [CN= 74.6: N= 3.00]  
 [Tp= .15:DT= 5.00]

005:0005-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

\* CALIB STANDHYD 03:6004 1.46 .480 No\_date 6:00 83.88 .897  
 [XIMP=.01:TIMP=.81]  
 [LOSS= 2 :CN= 82.4]  
 [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]  
 [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]

005:0006-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

ADD HYD 01:6001 2.45 .356 No\_date 6:00 34.91 n/a  
 + 02:6002 11.01 1.746 No\_date 6:00 47.46 n/a  
 + 03:6004 1.46 .480 No\_date 6:00 83.88 n/a  
 [DT= 5.00] SUM= 04:6002.2 14.92 2.582 No\_date 6:00 48.97 n/a

005:0007-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

CALIB NASHYD 01:1001 47.64 3.216 No\_date 6:15 36.07 .386  
 [CN= 64.0: N= 3.00]  
 [Tp= .38:DT= 5.00]

005:0008-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

ROUTE CHANNEL -> 01:1001 47.64 3.216 No\_date 6:15 36.07 n/a  
 [RDT= 1.67] out<- 02:1.002 47.64 3.071 No\_date 6:22 36.07 n/a  
 [L/s/n= 402./2.240/.050]  
 {Vmax= 1.186:Dmax= .350}

005:0009-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

CALIB NASHYD 01:1002 4.51 .470 No\_date 6:00 35.00 .374  
 [CN= 62.9: N= 3.00]  
 [Tp= .17:DT= 5.00]

005:0010-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

ADD HYD 02:1.002 47.64 3.071 No\_date 6:22 36.07 n/a  
 + 01:1002 4.51 .470 No\_date 6:00 35.00 n/a  
 [DT= 1.67] SUM= 03:1002.2 52.15 3.279 No\_date 6:18 35.98 n/a

005:0011-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

\* CALIB NASHYD 01:1003 2.41 .350 No\_date 6:00 42.63 .456  
 [CN= 70.4: N= 3.00]  
 [Tp= .14:DT= 5.00]

005:0012-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

\* CALIB STANDHYD 05:1004 1.36 .450 No\_date 6:00 84.73 .906  
 [XIMP=.01:TIMP=.89]  
 [LOSS= 2 :CN= 74.0]

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                                EXR.sum
[Pervious area: Iaper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
005:0013-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:1003          2.41      .350 No_date  6:00  42.63 n/a
                + 03:1002.2      52.15     3.279 No_date  6:18  35.98 n/a
                + 05:1004          1.36      .450 No_date  6:00  84.73 n/a
[DT= 1.67] SUM= 02:1004.2      55.92     3.466 No_date  6:17  37.45 n/a
005:0014-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          04:6002.2      14.92     2.582 No_date  6:00  48.97 n/a
                + 02:1004.2      55.92     3.466 No_date  6:17  37.45 n/a
[DT= 1.67] SUM= 01:1004.2      70.84     5.374 No_date  6:00  39.87 n/a
005:0015-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     02:6003          5.59      .925 No_date  6:00  53.10 .568
[CN= 79.0: N= 3.00]
[Tp= .17:DT= 5.00]
005:0016-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:1004.2      70.84     5.374 No_date  6:00  39.87 n/a
                + 02:6003          5.59      .925 No_date  6:00  53.10 n/a
[DT= 1.67] SUM= 03:6003.2      76.43     6.299 No_date  6:00  40.84 n/a
005:0017-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:2001      136.38     8.163 No_date  6:25  39.86 .426
[CN= 67.8: N= 3.00]
[Tp= .52:DT= 5.00]
005:0018-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL   -> 01:2001      136.38     8.163 No_date  6:25  39.86 n/a
[RDT= 1.67] out<- 02:2.002      136.38     7.317 No_date  6:38  39.86 n/a
[L/S/n= 933./1.500/.050]
{Vmax= 1.082:Dmax= .639}
005:0019-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:2002          7.78      .406 No_date  6:25  34.63 .370
[CN= 62.5: N= 3.00]
[Tp= .51:DT= 5.00]
005:0020-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          02:2.002      136.38     7.317 No_date  6:38  39.86 n/a
                + 01:2002          7.78      .406 No_date  6:25  34.63 n/a
[DT= 1.67] SUM= 04:2001.2      144.16     7.685 No_date  6:38  39.58 n/a
005:0021-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:2003          .96       .316 No_date  6:00  82.07 .878
[XIMP=.01:TIMP=.86]
[LOSS= 2 :CN= 74.0]
[Pervious area: Iaper= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]
005:0022-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:2003          .96       .316 No_date  6:00  82.07 n/a
                + 04:2001.2      144.16     7.685 No_date  6:38  39.58 n/a
[DT= 1.67] SUM= 02:2002.2      145.12     7.706 No_date  6:38  39.86 n/a
005:0023-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          02:2002.2      145.12     7.706 No_date  6:38  39.86 n/a
                + 03:6003.2      76.43     6.299 No_date  6:00  40.84 n/a
[DT= 1.67] SUM= 01:2002.2      221.55     11.374 No_date  6:30  40.20 n/a
005:0024-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD     02:7001          3.11      .458 No_date  6:00  36.31 .388
[CN= 64.3: N= 3.00]
[Tp= .10:DT= 5.00]
005:0025-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:2002.2      221.55     11.374 No_date  6:30  40.20 n/a
                + 02:7001          3.11      .458 No_date  6:00  36.31 n/a
[DT= 1.67] SUM= 03:7001.2      224.66     11.456 No_date  6:30  40.14 n/a
005:0026-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:2004          2.28      .500 No_date  6:00  51.68 .553
[XIMP=.01:TIMP=.40]
[LOSS= 2 :CN= 68.0]
[Pervious area: Iaper= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]

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EXR.sum

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[Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]
005:0027-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:2004          2.28      .500 No_date    6:00    51.68 n/a
                + 03:7001.2    224.66    11.456 No_date    6:30    40.14 n/a
[DT= 1.67] SUM= 10:2004.2    226.94    11.536 No_date    6:30    40.26 n/a
005:0028-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:3001          78.24     4.459 No_date    6:20    34.05 .364
[CN= 61.9: N= 3.00]
[Tp= .44:DT= 5.00]
005:0029-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL   -> 01:3001          78.24     4.459 No_date    6:20    34.05 n/a
[RDT= 1.67] out<- 03:3.002    78.24     4.383 No_date    6:23    34.05 n/a
[L/S/n= 1097./9.080/.050]
{Vmax= 4.589:Dmax= .057}
005:0030-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:3002          9.19      .542 No_date    6:25    39.84 .426
[CN= 67.8: N= 3.00]
[Tp= .53:DT= 5.00]
005:0031-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3002          9.19      .542 No_date    6:25    39.84 n/a
                + 03:3.002    78.24     4.383 No_date    6:23    34.05 n/a
[DT= 1.67] SUM= 04:3002.2    87.43     4.922 No_date    6:23    34.66 n/a
005:0032-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD     01:3010          4.15      .563 No_date    6:00    34.63 .370
[CN= 62.5: N= 3.00]
[Tp= .11:DT= 5.00]
005:0033-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3010          4.15      .563 No_date    6:00    34.63 n/a
                + 04:3002.2    87.43     4.922 No_date    6:23    34.66 n/a
[DT= 1.67] SUM= 09:3010.2    91.58     5.032 No_date    6:23    34.66 n/a
005:0034-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3003          1.99      .501 No_date    6:00    65.13 .696
[XIMP=.48:TIMP=.48]
[LOSS= 2 :CN= 67.8]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]
005:0035-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 04:3004          .40       .115 No_date    6:00    75.93 .812
[XIMP=.70:TIMP=.70]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]
005:0036-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3003          1.99      .501 No_date    6:00    65.13 n/a
                + 04:3004          .40       .115 No_date    6:00    75.93 n/a
[DT= 5.00] SUM= 08:3004.2    2.39      .616 No_date    6:00    66.93 n/a
005:0037-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 07:3005          2.80      .634 No_date    6:00    57.39 .614
[XIMP=.01:TIMP=.59]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]
005:0038-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:4001          5.28      .576 No_date    6:05    37.91 .405
[CN= 65.9: N= 3.00]
[Tp= .19:DT= 5.00]
005:0039-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL   -> 01:4001          5.28      .576 No_date    6:05    37.91 n/a
[RDT= 1.67] out<- 02:4.003    5.28      .417 No_date    6:13    37.91 n/a
[L/S/n= 475./1.260/.050]
{Vmax= .561:Dmax= .222}
005:0040-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     03:4003          3.13      .241 No_date    6:10    34.73 .371

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EXR.sum

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[CN= 62.6: N= 3.00]
[TP= .29:DT= 5.00]
005:0041-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD      04:4002      6.34      .769 No_date  6:05  46.11 .493
[CN= 73.5: N= 3.00]
[TP= .23:DT= 5.00]
005:0042-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          02:4.003      5.28      .417 No_date  6:13  37.91 n/a
                + 03:4003      3.13      .241 No_date  6:10  34.73 n/a
                + 04:4002      6.34      .769 No_date  6:05  46.11 n/a
[DT= 1.67] SUM=  05:4003.2  14.75      1.371 No_date  6:08  40.76 n/a
005:0043-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ROUTE CHANNEL    -> 05:4003.2  14.75      1.371 No_date  6:08  40.76 n/a
* [RDT= 1.67] out<- 01:4.006  14.75      1.333 No_date  6:12  40.76 n/a
  [L/S/n= 357./5.040/.050]
  {Vmax= 1.630:Dmax= .059}
005:0044-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD    03:4004A      .64      .135 No_date  6:00  46.20 .494
[CN= 73.6: N= 3.00]
[TP= .06:DT= 5.00]
005:0045-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD    04:4004C      1.13      .204 No_date  6:00  46.20 .494
[CN= 73.6: N= 3.00]
[TP= .11:DT= 5.00]
#####
#####
005:0046-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD    05:4010      .85      .176 No_date  6:00  46.20 .494
[CN= 73.6: N= 3.00]
[TP= .07:DT= 5.00]
005:0047-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          05:4010      .85      .176 No_date  6:00  46.20 n/a
                + 03:4004A      .64      .135 No_date  6:00  46.20 n/a
                + 04:4004C      1.13      .204 No_date  6:00  46.20 n/a
                + 01:4.006      14.75      1.333 No_date  6:12  40.76 n/a
[DT= 1.67] SUM=  06:4008.1  17.37      1.476 No_date  6:08  41.58 n/a
005:0048-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD    03:4004B      .57      .119 No_date  6:00  46.20 .494
[CN= 73.6: N= 3.00]
[TP= .06:DT= 5.00]
#####
#####
005:0049-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD    04:4011      .09      .019 No_date  6:00  46.20 .494
[CN= 73.6: N= 3.00]
[TP= .03:DT= 5.00]
#####
005:0050-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          03:4004B      .57      .119 No_date  6:00  46.20 n/a
                + 04:4011      .09      .019 No_date  6:00  46.20 n/a
[DT= 5.00] SUM=  05:4011      .66      .138 No_date  6:00  46.20 n/a
#####
#####
005:0051-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
DIVERT HYD       -> 05:4011      .66      .138 No_date  6:00  46.20 n/a
  diverted <= 02:Minor  .57      .067 No_date  6:00  46.20 n/a
  diverted <= 03:Major  .09      .071 No_date  6:00  46.20 n/a
#####
005:0052-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ROUTE CHANNEL    -> 03:Major      .09      .071 No_date  6:00  46.20 n/a
* [RDT= 1.67] out<- 01:4.007  .09      .053 No_date  6:02  46.20 n/a
  [L/S/n= 250./2.400/.035]
  {Vmax= .861:Dmax= .135}

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                                EXR.sum
005:0053-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  ADD HYD                06:4008.1    17.37    1.476 No_date    6:08    41.58 n/a
                        + 01:4.007      .09      .053 No_date    6:02    46.20 n/a
  [DT= 1.67]  SUM= 03:4008.1    17.46    1.493 No_date    6:02    41.62 n/a
005:0054-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD          06:4006      3.37     .528 No_date    6:00    41.17 .440
  [CN= 69.1: N= 3.00]
  [Tp= .12:DT= 5.00]
005:0055-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD       04:4007      5.04     1.191 No_date    6:00    59.77 .639
  [XIMP=.31:TIMP=.31]
  [LOSS= 2 :CN= 72.8]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
005:0056-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD       05:4008      2.42     .607 No_date    6:00    61.48 .657
  [XIMP=.22:TIMP=.22]
  [LOSS= 2 :CN= 79.3]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
005:0057-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  ADD HYD                03:4008.1    17.46    1.493 No_date    6:02    41.62 n/a
                        + 04:4007      5.04     1.191 No_date    6:00    59.77 n/a
                        + 05:4008      2.42     .607 No_date    6:00    61.48 n/a
                        + 06:4006      3.37     .528 No_date    6:00    41.17 n/a
  [DT= 1.67]  SUM= 01:4008.2    28.29    3.801 No_date    6:00    46.50 n/a
005:0058-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD       03:4009      5.11     1.600 No_date    6:00    84.98 .909
  [XIMP=.01:TIMP=.90]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]
005:0059-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  ADD HYD                01:4008.2    28.29    3.801 No_date    6:00    46.50 n/a
                        + 03:4009      5.11     1.600 No_date    6:00    84.98 n/a
  [DT= 1.67]  SUM= 05:4009.2    33.40    5.401 No_date    6:00    52.39 n/a
005:0060-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  ADD HYD                07:3005      2.80     .634 No_date    6:00    57.39 n/a
                        + 08:3004.2    2.39     .616 No_date    6:00    66.93 n/a
                        + 02:Minor      .57     .067 No_date    6:00    46.20 n/a
  [DT= 5.00]  SUM= 04:3005.2    5.76     1.317 No_date    6:00    60.23 n/a
005:0061-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  ADD HYD                09:3010.2    91.58    5.032 No_date    6:23    34.66 n/a
                        + 04:3005.2    5.76     1.317 No_date    6:00    60.23 n/a
  [DT= 1.67]  SUM= 01:3005.2    97.34    5.266 No_date    6:23    36.17 n/a
005:0062-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD       03:3006      1.12     .355 No_date    6:00    76.91 .822
  [XIMP=.01:TIMP=.86]
  [LOSS= 2 :CN= 64.5]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]
005:0063-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  ADD HYD                01:3005.2    97.34    5.266 No_date    6:23    36.17 n/a
                        + 03:3006      1.12     .355 No_date    6:00    76.91 n/a
  [DT= 1.67]  SUM= 04:3005.2    98.46    5.316 No_date    6:23    36.64 n/a
005:0064-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD       01:3009      1.93     .617 No_date    6:00    81.54 .872
  [XIMP=.01:TIMP=.90]
  [LOSS= 2 :CN= 64.5]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]
005:0065-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
  ADD HYD                01:3009      1.93     .617 No_date    6:00    81.54 n/a

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		EXR. sum							
		+	04:3005.2	98.46	5.316	No_date	6:23	36.64	n/a
	[DT= 1.67] SUM=		03:3009.2	100.39	5.406	No_date	6:23	37.50	n/a
005:0066	-----		ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----
	ADD HYD		10:2004.2	226.94	11.536	No_date	6:30	40.26	n/a
		+	03:3009.2	100.39	5.406	No_date	6:23	37.50	n/a
	[DT= 1.67] SUM=		01:3009.2	327.33	16.823	No_date	6:28	39.41	n/a
005:0067	-----		ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----
*	CALIB STANDHYD		02:3007	2.08	.489	No_date	6:00	54.99	.588
	[XIMP=.01:TIMP=.36]								
	[LOSS= 2 :CN= 72.4]								
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]								
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]								
005:0068	-----		ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----
	ADD HYD		01:3009.2	327.33	16.823	No_date	6:28	39.41	n/a
		+	02:3007	2.08	.489	No_date	6:00	54.99	n/a
	[DT= 1.67] SUM=		03:3007.2	329.41	16.899	No_date	6:28	39.51	n/a
005:0069	-----		ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----
*	CALIB NASHYD		01:2005	2.85	.823	No_date	6:00	65.73	.703
	[CN= 87.3: N= 3.00]								
	[Tp= .05:DT= 5.00]								
005:0070	-----		ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----
	ADD HYD		01:2005	2.85	.823	No_date	6:00	65.73	n/a
		+	03:3007.2	329.41	16.899	No_date	6:28	39.51	n/a
	[DT= 1.67] SUM=		02:2005.2	332.26	17.017	No_date	6:28	39.74	n/a
005:0071	-----		ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----
*	CALIB STANDHYD		01:3008	1.61	.393	No_date	6:00	58.37	.624
	[XIMP=.01:TIMP=.40]								
	[LOSS= 2 :CN= 74.3]								
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]								
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]								
005:0072	-----		ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----
	ADD HYD		01:3008	1.61	.393	No_date	6:00	58.37	n/a
		+	02:2005.2	332.26	17.017	No_date	6:28	39.74	n/a
	[DT= 1.67] SUM=		03:3008.2	333.87	17.080	No_date	6:28	39.83	n/a
005:0073	-----		ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----
	CALIB NASHYD		01:5001	62.50	1.299	No_date	6:20	12.42	.133
	[CN= 30.1: N= 3.00]								
	[Tp= .41:DT= 5.00]								
005:0074	-----		ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----
	ROUTE CHANNEL ->		01:5001	62.50	1.299	No_date	6:20	12.42	n/a
	[RDT= 1.67] out<-		02:5.002	62.50	1.195	No_date	6:28	12.42	n/a
	[L/s/n= 912./2.030/.050]								
	{Vmax= 1.544:Dmax= .043}								
005:0075	-----		ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----
	CALIB NASHYD		03:5002	14.10	.468	No_date	6:05	14.44	.154
	[CN= 34.0: N= 3.00]								
	[Tp= .25:DT= 5.00]								
005:0076	-----		ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----
*	CALIB NASHYD		04:5004	3.48	.715	No_date	6:00	51.73	.553
	[CN= 78.0: N= 3.00]								
	[Tp= .10:DT= 5.00]								
005:0077	-----		ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----
	ADD HYD		02:5.002	62.50	1.195	No_date	6:28	12.42	n/a
		+	03:5002	14.10	.468	No_date	6:05	14.44	n/a
		+	04:5004	3.48	.715	No_date	6:00	51.73	n/a
	[DT= 1.67] SUM=		05:5002.2	80.08	1.621	No_date	6:22	14.49	n/a
005:0078	-----		ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----
*	CALIB NASHYD		01:5003	2.65	.297	No_date	6:00	33.27	.356
	[CN= 61.0: N= 3.00]								
	[Tp= .14:DT= 5.00]								
005:0079	-----		ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----
	ADD HYD		01:5003	2.65	.297	No_date	6:00	33.27	n/a
		+	05:5002.2	80.08	1.621	No_date	6:22	14.49	n/a

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                                EXR.sum
[DT= 1.67]  SUM= 02:5003.2      82.73      1.858 No_date      6:05      15.09 n/a
005:0080-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      01:SWALE      .50      .168 No_date      6:00      90.60 .969
  [XIMP=.95:TIMP=.95]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
** END OF RUN : 5

```

\*\*\*\*\*

RUN:COMMAND#

```

006:0001-----
START
  [TZERO = .00 hrs on 0]
  [METOUT= 2 (1=imperial, 2=metric output)]
  [NSTORM= 1 ]
  [NRUN = 6 ]

```

```

#*****
# Project Name: [Waterdown Road] Project Number: [107016] *
# Date : 09-14-2007 *
# Modeller : [KB] *
# Company : Philips Engineering Ltd *
# License # : 3569108 *
#*****

```

```

006:0002-----
READ STORM
  Filename = STORM.001
  Comment = 100 Year SCS 12 hour City of Burlington (2004)
  [SDT=10.00:SDUR= 12.00:PTOT= 103.61]

```

```

006:0003-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      01:6001      2.45      .421 No_date      6:00      41.28 .398
  [CN= 62.8: N= 3.00]
  [Tp= .09:DT= 5.00]

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006:0004-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      02:6002      11.01      2.038 No_date      6:00      55.33 .534
  [CN= 74.6: N= 3.00]
  [Tp= .15:DT= 5.00]

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```

006:0005-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      03:6004      1.46      .535 No_date      6:00      93.90 .906
  [XIMP=.01:TIMP=.81]
  [LOSS= 2 :CN= 82.4]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]

```

```

006:0006-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD
      01:6001      2.45      .421 No_date      6:00      41.28 n/a
      + 02:6002      11.01      2.038 No_date      6:00      55.33 n/a
      + 03:6004      1.46      .535 No_date      6:00      93.90 n/a
[DT= 5.00] SUM= 04:6002.2      14.92      2.994 No_date      6:00      56.79 n/a

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006:0007-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      01:1001      47.64      3.811 No_date      6:15      42.59 .411
  [CN= 64.0: N= 3.00]
  [Tp= .38:DT= 5.00]

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```

006:0008-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL -> 01:1001      47.64      3.811 No_date      6:15      42.59 n/a
  [RDT= 1.67] out<- 02:1.002      47.64      3.639 No_date      6:20      42.59 n/a
  [L/S/n= 402./2.240/.050]
  {vmax= 1.186:Dmax= .415}

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006:0009-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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ID	Description	ID	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.
	CALIB NASHYD	01:1002	4.51	.558	No_date 6:00	41.39	.399
	[CN= 62.9: N= 3.00]						
	[Tp= .17:DT= 5.00]						
006:0010	ADD HYD	02:1.002	47.64	3.639	No_date 6:20	42.59	n/a
		+ 01:1002	4.51	.558	No_date 6:00	41.39	n/a
	[DT= 1.67] SUM=	03:1002.2	52.15	3.886	No_date 6:18	42.49	n/a
006:0011	ADD HYD	01:1003	2.41	.411	No_date 6:00	49.97	.482
*	CALIB NASHYD						
	[CN= 70.4: N= 3.00]						
	[Tp= .14:DT= 5.00]						
006:0012	ADD HYD	05:1004	1.36	.501	No_date 6:00	94.76	.915
*	CALIB STANDHYD						
	[XIMP=.01:TIMP=.89]						
	[LOSS= 2 :CN= 74.0]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]						
006:0013	ADD HYD	01:1003	2.41	.411	No_date 6:00	49.97	n/a
		+ 03:1002.2	52.15	3.886	No_date 6:18	42.49	n/a
		+ 05:1004	1.36	.501	No_date 6:00	94.76	n/a
	[DT= 1.67] SUM=	02:1004.2	55.92	4.101	No_date 6:17	44.08	n/a
006:0014	ADD HYD	04:6002.2	14.92	2.994	No_date 6:00	56.79	n/a
		+ 02:1004.2	55.92	4.101	No_date 6:17	44.08	n/a
	[DT= 1.67] SUM=	01:1004.2	70.84	6.283	No_date 6:00	46.76	n/a
006:0015	ADD HYD	02:6003	5.59	1.073	No_date 6:00	61.51	.594
	CALIB NASHYD						
	[CN= 79.0: N= 3.00]						
	[Tp= .17:DT= 5.00]						
006:0016	ADD HYD	01:1004.2	70.84	6.283	No_date 6:00	46.76	n/a
		+ 02:6003	5.59	1.073	No_date 6:00	61.51	n/a
	[DT= 1.67] SUM=	03:6003.2	76.43	7.356	No_date 6:00	47.84	n/a
006:0017	ADD HYD	01:2001	136.38	9.630	No_date 6:25	46.87	.452
	CALIB NASHYD						
	[CN= 67.8: N= 3.00]						
	[Tp= .52:DT= 5.00]						
006:0018	ROUTE CHANNEL ->	01:2001	136.38	9.630	No_date 6:25	46.87	n/a
	[RDT= 1.67] out<-	02:2.002	136.38	8.684	No_date 6:38	46.87	n/a
	[L/s/n= 933./1.500/.050]						
	{Vmax= 1.121:Dmax= .681}						
006:0019	ADD HYD	01:2002	7.78	.481	No_date 6:25	40.97	.395
	CALIB NASHYD						
	[CN= 62.5: N= 3.00]						
	[Tp= .51:DT= 5.00]						
006:0020	ADD HYD	02:2.002	136.38	8.684	No_date 6:38	46.87	n/a
		+ 01:2002	7.78	.481	No_date 6:25	40.97	n/a
	[DT= 1.67] SUM=	04:2001.2	144.16	9.129	No_date 6:37	46.55	n/a
006:0021	ADD HYD	01:2003	.96	.352	No_date 6:00	92.05	.888
*	CALIB STANDHYD						
	[XIMP=.01:TIMP=.86]						
	[LOSS= 2 :CN= 74.0]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]						
006:0022	ADD HYD	01:2003	.96	.352	No_date 6:00	92.05	n/a
		+ 04:2001.2	144.16	9.129	No_date 6:37	46.55	n/a
	[DT= 1.67] SUM=	02:2002.2	145.12	9.153	No_date 6:37	46.85	n/a
006:0023	ADD HYD	02:2002.2	145.12	9.153	No_date 6:37	46.85	n/a

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                                EXR. sum
                                + 03:6003.2    76.43    7.356 No_date    6:00    47.84    n/a
                                [DT= 1.67] SUM= 01:2002.2    221.55    13.510 No_date    6:30    47.19    n/a
006:0024-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      02:7001      3.11      .541 No_date    6:00    42.86    .414
  [CN= 64.3: N= 3.00]
  [Tp= .10:DT= 5.00]
006:0025-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:2002.2    221.55    13.510 No_date    6:30    47.19    n/a
                                + 02:7001      3.11      .541 No_date    6:00    42.86    n/a
  [DT= 1.67] SUM= 03:7001.2    224.66    13.605 No_date    6:30    47.13    n/a
006:0026-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   01:2004      2.28      .582 No_date    6:00    59.94    .579
  [XIMP=.01:TIMP=.40]
  [LOSS= 2 :CN= 68.0]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]
006:0027-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:2004      2.28      .582 No_date    6:00    59.94    n/a
                                + 03:7001.2    224.66    13.605 No_date    6:30    47.13    n/a
  [DT= 1.67] SUM= 10:2004.2    226.94    13.697 No_date    6:30    47.26    n/a
006:0028-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD     01:3001     78.24     5.296 No_date    6:20    40.30    .389
  [CN= 61.9: N= 3.00]
  [Tp= .44:DT= 5.00]
006:0029-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL   -> 01:3001     78.24     5.296 No_date    6:20    40.30    n/a
  [RDT= 1.67] out<- 03:3.002     78.24     5.207 No_date    6:23    40.30    n/a
  [L/S/n= 1097./9.080/.050]
  {Vmax= 4.589:Dmax= .068}
006:0030-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD     01:3002     9.19      .639 No_date    6:25    46.84    .452
  [CN= 67.8: N= 3.00]
  [Tp= .53:DT= 5.00]
006:0031-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:3002     9.19      .639 No_date    6:25    46.84    n/a
                                + 03:3.002     78.24     5.207 No_date    6:23    40.30    n/a
  [DT= 1.67] SUM= 04:3002.2     87.43     5.843 No_date    6:23    40.99    n/a
006:0032-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD     01:3010     4.15      .666 No_date    6:00    40.97    .395
  [CN= 62.5: N= 3.00]
  [Tp= .11:DT= 5.00]
006:0033-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:3010     4.15      .666 No_date    6:00    40.97    n/a
                                + 04:3002.2     87.43     5.843 No_date    6:23    40.99    n/a
  [DT= 1.67] SUM= 09:3010.2     91.58     5.972 No_date    6:23    40.99    n/a
006:0034-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   01:3003     1.99      .569 No_date    6:00    73.61    .710
  [XIMP=.48:TIMP=.48]
  [LOSS= 2 :CN= 67.8]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]
006:0035-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   04:3004     .40      .129 No_date    6:00    84.97    .820
  [XIMP=.70:TIMP=.70]
  [LOSS= 2 :CN= 64.5]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]
006:0036-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:3003     1.99      .569 No_date    6:00    73.61    n/a
                                + 04:3004     .40      .129 No_date    6:00    84.97    n/a
  [DT= 5.00] SUM= 08:3004.2     2.39      .698 No_date    6:00    75.51    n/a
006:0037-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   07:3005     2.80      .736 No_date    6:00    66.12    .638

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EXR.sum

[XIMP=.01:TIMP=.59]  
[LOSS= 2 :CN= 64.5]  
[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]  
[Impervious area: IAIMP= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]

006:0038-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
CALIB NASHYD 01:4001 5.28 .680 No\_date 6:05 44.68 .431

[CN= 65.9: N= 3.00]  
[Tp= .19:DT= 5.00]

006:0039-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
ROUTE CHANNEL -> 01:4001 5.28 .680 No\_date 6:05 44.68 n/a  
[RDT= 1.67] out<- 02:4.003 5.28 .492 No\_date 6:13 44.68 n/a  
[L/S/n= 475./1.260/.050]  
{Vmax= .563:Dmax= .252}

006:0040-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
CALIB NASHYD 03:4003 3.13 .286 No\_date 6:10 41.07 .396

[CN= 62.6: N= 3.00]  
[Tp= .29:DT= 5.00]

006:0041-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
CALIB NASHYD 04:4002 6.34 .899 No\_date 6:05 53.83 .520

[CN= 73.5: N= 3.00]  
[Tp= .23:DT= 5.00]

006:0042-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
ADD HYD 02:4.003 5.28 .492 No\_date 6:13 44.68 n/a  
+ 03:4003 3.13 .286 No\_date 6:10 41.07 n/a  
+ 04:4002 6.34 .899 No\_date 6:05 53.83 n/a  
[DT= 1.67] SUM= 05:4003.2 14.75 1.613 No\_date 6:08 47.85 n/a

006:0043-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
\* ROUTE CHANNEL -> 05:4003.2 14.75 1.613 No\_date 6:08 47.85 n/a  
[RDT= 1.67] out<- 01:4.006 14.75 1.569 No\_date 6:12 47.85 n/a  
[L/S/n= 357./5.040/.050]  
{Vmax= 1.630:Dmax= .070}

006:0044-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
\* CALIB NASHYD 03:4004A .64 .157 No\_date 6:00 53.94 .521

[CN= 73.6: N= 3.00]  
[Tp= .06:DT= 5.00]

006:0045-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
\* CALIB NASHYD 04:4004C 1.13 .238 No\_date 6:00 53.94 .521

[CN= 73.6: N= 3.00]  
[Tp= .11:DT= 5.00]

#####  
#####

006:0046-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
\* CALIB NASHYD 05:4010 .85 .204 No\_date 6:00 53.94 .521

[CN= 73.6: N= 3.00]  
[Tp= .07:DT= 5.00]

006:0047-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
ADD HYD 05:4010 .85 .204 No\_date 6:00 53.94 n/a  
+ 03:4004A .64 .157 No\_date 6:00 53.94 n/a  
+ 04:4004C 1.13 .238 No\_date 6:00 53.94 n/a  
+ 01:4.006 14.75 1.569 No\_date 6:12 47.85 n/a  
[DT= 1.67] SUM= 06:4008.1 17.37 1.736 No\_date 6:08 48.77 n/a

006:0048-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
\* CALIB NASHYD 03:4004B .57 .138 No\_date 6:00 53.94 .521

[CN= 73.6: N= 3.00]  
[Tp= .06:DT= 5.00]

#####  
#####

006:0049-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
\* CALIB NASHYD 04:4011 .09 .023 No\_date 6:00 53.94 .521

[CN= 73.6: N= 3.00]  
[Tp= .03:DT= 5.00]

#####  
#####

006:0050-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-

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                                EXR. sum
ADD HYD                        03:4004B      .57      .138 No_date  6:00  53.94 n/a
                                + 04:4011      .09      .023 No_date  6:00  53.94 n/a
  [DT= 5.00] SUM= 05:4011      .66      .160 No_date  6:00  53.94 n/a
#####
#####
006:0051-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  DIVERT HYD      -> 05:4011      .66      .160 No_date  6:00  53.94 n/a
    diverted <= 02:Minor      .55      .067 No_date  6:00  53.94 n/a
    diverted <= 03:Major      .11      .093 No_date  6:00  53.94 n/a
#####
006:0052-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL  -> 03:Major      .11      .093 No_date  6:00  53.94 n/a
* [RDT= 1.67] out<- 01:4.007      .11      .073 No_date  6:02  53.94 n/a
  [L/S/n= 250./2.400/.035]
  {Vmax= .948:Dmax= .157}
006:0053-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD        06:4008.1      17.37     1.736 No_date  6:08  48.77 n/a
                                + 01:4.007      .11      .073 No_date  6:02  53.94 n/a
  [DT= 1.67] SUM= 03:4008.1      17.48     1.768 No_date  6:02  48.82 n/a
006:0054-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   06:4006      3.37      .621 No_date  6:00  48.34 .467
  [CN= 69.1: N= 3.00]
  [Tp= .12:DT= 5.00]
006:0055-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 04:4007      5.04      1.366 No_date  6:00  68.16 .658
  [XIMP=.31:TIMP=.31]
  [LOSS= 2 :CN= 72.8]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
006:0056-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 05:4008      2.42      .696 No_date  6:00  70.27 .678
  [XIMP=.22:TIMP=.22]
  [LOSS= 2 :CN= 79.3]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
006:0057-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD        03:4008.1      17.48     1.768 No_date  6:02  48.82 n/a
                                + 04:4007      5.04      1.366 No_date  6:00  68.16 n/a
                                + 05:4008      2.42      .696 No_date  6:00  70.27 n/a
                                + 06:4006      3.37      .621 No_date  6:00  48.34 n/a
  [DT= 1.67] SUM= 01:4008.2      28.31     4.431 No_date  6:00  54.04 n/a
006:0058-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 03:4009      5.11      1.790 No_date  6:00  95.01 .917
  [XIMP=.01:TIMP=.90]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]
006:0059-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD        01:4008.2      28.31     4.431 No_date  6:00  54.04 n/a
                                + 03:4009      5.11      1.790 No_date  6:00  95.01 n/a
  [DT= 1.67] SUM= 05:4009.2      33.42     6.221 No_date  6:00  60.30 n/a
006:0060-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD        07:3005      2.80      .736 No_date  6:00  66.12 n/a
                                + 08:3004.2      2.39      .698 No_date  6:00  75.51 n/a
                                + 02:Minor      .55      .067 No_date  6:00  53.94 n/a
  [DT= 5.00] SUM= 04:3005.2      5.74      1.500 No_date  6:00  68.86 n/a
006:0061-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD        09:3010.2      91.58     5.972 No_date  6:23  40.99 n/a
                                + 04:3005.2      5.74      1.500 No_date  6:00  68.86 n/a
  [DT= 1.67] SUM= 01:3005.2      97.32     6.235 No_date  6:23  42.63 n/a
006:0062-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 03:3006      1.12      .398 No_date  6:00  86.73 .837
  [XIMP=.01:TIMP=.86]

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EXR.sum

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[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]
006:0063-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3005.2    97.32    6.235 No_date    6:23    42.63 n/a
                + 03:3006          1.12     .398 No_date    6:00    86.73 n/a
[DT= 1.67] SUM= 04:3005.2    98.44    6.291 No_date    6:23    43.13 n/a
006:0064-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3009          1.93     .690 No_date    6:00    91.50 .883
[XIMP=.01:TIMP=.90]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]
006:0065-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3009          1.93     .690 No_date    6:00    91.50 n/a
                + 04:3005.2    98.44    6.291 No_date    6:23    43.13 n/a
[DT= 1.67] SUM= 03:3009.2   100.37    6.391 No_date    6:23    44.06 n/a
006:0066-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          10:2004.2   226.94   13.697 No_date    6:30    47.26 n/a
                + 03:3009.2   100.37    6.391 No_date    6:23    44.06 n/a
[DT= 1.67] SUM= 01:3009.2   327.31   19.953 No_date    6:28    46.28 n/a
006:0067-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 02:3007          2.08     .566 No_date    6:00    63.54 .613
[XIMP=.01:TIMP=.36]
[LOSS= 2 :CN= 72.4]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
006:0068-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3009.2   327.31   19.953 No_date    6:28    46.28 n/a
                + 02:3007          2.08     .566 No_date    6:00    63.54 n/a
[DT= 1.67] SUM= 03:3007.2   329.39   20.040 No_date    6:28    46.39 n/a
006:0069-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   01:2005          2.85     .932 No_date    6:00    75.07 .725
[CN= 87.3: N= 3.00]
[Ip= .05:DT= 5.00]
006:0070-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:2005          2.85     .932 No_date    6:00    75.07 n/a
                + 03:3007.2   329.39   20.040 No_date    6:28    46.39 n/a
[DT= 1.67] SUM= 02:2005.2   332.24   20.173 No_date    6:28    46.63 n/a
006:0071-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3008          1.61     .453 No_date    6:00    67.20 .649
[XIMP=.01:TIMP=.40]
[LOSS= 2 :CN= 74.3]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
006:0072-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3008          1.61     .453 No_date    6:00    67.20 n/a
                + 02:2005.2   332.24   20.173 No_date    6:28    46.63 n/a
[DT= 1.67] SUM= 03:3008.2   333.85   20.244 No_date    6:28    46.73 n/a
006:0073-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:5001          62.50    1.580 No_date    6:20    15.08 .146
[CN= 30.1: N= 3.00]
[Ip= .41:DT= 5.00]
006:0074-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL   -> 01:5001          62.50    1.580 No_date    6:20    15.08 n/a
[RDT= 1.67] out<- 02:5.002          62.50    1.453 No_date    6:28    15.08 n/a
[L/S/n= 912./2.030/.050]
{Vmax= 1.544:Dmax= .053}
006:0075-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     03:5002          14.10    .568 No_date    6:05    17.49 .169
[CN= 34.0: N= 3.00]
[Ip= .25:DT= 5.00]
006:0076-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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* CALIB NASHYD      04:5004      EXR.sum
  [CN= 78.0: N= 3.00]
  [Tp= .10:DT= 5.00]
006:0077-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          02:5.002      62.50      1.453 No_date  6:28      15.08      n/a
                   + 03:5002      14.10      .568 No_date  6:05      17.49      n/a
                   + 04:5004      3.48      .828 No_date  6:00      60.01      n/a
  [DT= 1.67] SUM= 05:5002.2      80.08      1.961 No_date  6:22      17.46      n/a
006:0078-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      01:5003      2.65      .353 No_date  6:00      39.42      .380
  [CN= 61.0: N= 3.00]
  [Tp= .14:DT= 5.00]
006:0079-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:5003      2.65      .353 No_date  6:00      39.42      n/a
                   + 05:5002.2      80.08      1.961 No_date  6:22      17.46      n/a
  [DT= 1.67] SUM= 02:5003.2      82.73      2.223 No_date  6:05      18.16      n/a
006:0080-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    01:SWALE      .50      .186 No_date  6:00      100.58     .971
  [XIMP=.95:TIMP=.95]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
** END OF RUN : 6

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RUN:COMMAND#

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007:0001-----
  START
  [TZERO = .00 hrs on 0]
  [METOUT= 2 (1=imperial, 2=metric output)]
  [NSTORM= 1 ]
  [NRUN = 7 ]
#*****
# Project Name: [waterdown Road] Project Number: [107016] *
# Date : 09-14-2007 *
# Modeller : [KB] *
# Company : Philips Engineering Ltd *
# License # : 3569108 *
#*****
007:0002-----
  READ STORM
  Filename = STORM.001
  Comment = City of ANYWHERE - 4 hr/25.0mm Chicago Design Storm
  [SDT= 5.00:SDUR= 3.92:PTOT= 24.78]
007:0003-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      01:6001      2.45      .037 No_date  2:05      3.12      .126
  [CN= 62.8: N= 3.00]
  [Tp= .09:DT= 5.00]
007:0004-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      02:6002      11.01      .214 No_date  2:10      4.94      .199
  [CN= 74.6: N= 3.00]
  [Tp= .15:DT= 5.00]
007:0005-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    03:6004      1.46      .159 No_date  2:00      17.16     .693
  [XIMP=.01:TIMP=.81]
  [LOSS= 2 :CN= 82.4]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]

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                                EXR. sum
007:0006-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                01:6001      2.45      .037 No_date  2:05   3.12 n/a
                        + 02:6002     11.01     .214 No_date  2:10   4.94 n/a
                        + 03:6004      1.46     .159 No_date  2:00  17.16 n/a
  [DT= 5.00]  SUM= 04:6002.2    14.92     .363 No_date  2:05   5.84 n/a
007:0007-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD          01:1001     47.64     .355 No_date  2:30   3.26 .132
  [CN= 64.0: N= 3.00]
  [Tp= .38:DT= 5.00]
007:0008-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL  -> 01:1001     47.64     .355 No_date  2:30   3.26 n/a
  [RDT= 1.67] out<- 02:1.002    47.64     .344 No_date  2:35   3.26 n/a
  {L/S/n= 402./2.240/.050}
  {Vmax= 1.186:Dmax= .039}
007:0009-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD          01:1002      4.51     .051 No_date  2:10   3.13 .126
  [CN= 62.9: N= 3.00]
  [Tp= .17:DT= 5.00]
007:0010-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                02:1.002    47.64     .344 No_date  2:35   3.26 n/a
                        + 01:1002      4.51     .051 No_date  2:10   3.13 n/a
  [DT= 1.67]  SUM= 03:1002.2    52.15     .368 No_date  2:33   3.25 n/a
007:0011-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB NASHYD          01:1003      2.41     .040 No_date  2:10   4.17 .168
  [CN= 70.4: N= 3.00]
  [Tp= .14:DT= 5.00]
007:0012-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB STANDHYD      05:1004      1.36     .159 No_date  2:00  17.75 .716
  [XIMP=.01:TIMP=.89]
  [LOSS= 2 :CN= 74.0]
  [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
007:0013-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                01:1003      2.41     .040 No_date  2:10   4.17 n/a
                        + 03:1002.2    52.15     .368 No_date  2:33   3.25 n/a
                        + 05:1004      1.36     .159 No_date  2:00  17.75 n/a
  [DT= 1.67]  SUM= 02:1004.2    55.92     .408 No_date  2:30   3.64 n/a
007:0014-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                04:6002.2    14.92     .363 No_date  2:05   5.84 n/a
                        + 02:1004.2    55.92     .408 No_date  2:30   3.64 n/a
  [DT= 1.67]  SUM= 01:1004.2    70.84     .641 No_date  2:10   4.11 n/a
007:0015-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD          02:6003      5.59     .126 No_date  2:10   5.97 .241
  [CN= 79.0: N= 3.00]
  [Tp= .17:DT= 5.00]
007:0016-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                01:1004.2    70.84     .641 No_date  2:10   4.11 n/a
                        + 02:6003      5.59     .126 No_date  2:10   5.97 n/a
  [DT= 1.67]  SUM= 03:6003.2    76.43     .767 No_date  2:10   4.24 n/a
007:0017-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD          01:2001    136.38     .958 No_date  2:40   3.77 .152
  [CN= 67.8: N= 3.00]
  [Tp= .52:DT= 5.00]
007:0018-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL  -> 01:2001    136.38     .958 No_date  2:40   3.77 n/a
  [RDT= 1.67] out<- 02:2.002    136.38     .848 No_date  2:57   3.77 n/a
  {L/S/n= 933./1.500/.050}
  {Vmax= .970:Dmax= .146}
007:0019-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD          01:2002      7.78     .045 No_date  2:40   3.08 .124
  [CN= 62.5: N= 3.00]
  [Tp= .51:DT= 5.00]
007:0020-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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                                EXR.sum
ADD HYD                        02:2.002    136.38    .848 No_date    2:57    3.77 n/a
                                + 01:2002    7.78     .045 No_date    2:40    3.08 n/a
  [DT= 1.67]  SUM= 04:2001.2    144.16    .888 No_date    2:57    3.73 n/a
007:0021-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:2003          .96     .105 No_date    2:00    16.14 .652
  [XIMP=.01:TIMP=.86]
  [LOSS= 2 :CN= 74.0]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]
007:0022-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                        01:2003          .96     .105 No_date    2:00    16.14 n/a
                                + 04:2001.2    144.16    .888 No_date    2:57    3.73 n/a
  [DT= 1.67]  SUM= 02:2002.2    145.12    .896 No_date    2:57    3.82 n/a
007:0023-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                        02:2002.2    145.12    .896 No_date    2:57    3.82 n/a
                                + 03:6003.2    76.43     .767 No_date    2:10    4.24 n/a
  [DT= 1.67]  SUM= 01:2002.2    221.55    1.329 No_date    2:45    3.96 n/a
007:0024-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD 02:7001          3.11     .048 No_date    2:05    3.29 .133
  [CN= 64.3: N= 3.00]
  [Tp= .10:DT= 5.00]
007:0025-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                        01:2002.2    221.55    1.329 No_date    2:45    3.96 n/a
                                + 02:7001          3.11     .048 No_date    2:05    3.29 n/a
  [DT= 1.67]  SUM= 03:7001.2    224.66    1.339 No_date    2:43    3.95 n/a
007:0026-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:2004          2.28     .053 No_date    2:05    5.80 .234
  [XIMP=.01:TIMP=.40]
  [LOSS= 2 :CN= 68.0]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]
007:0027-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                        01:2004          2.28     .053 No_date    2:05    5.80 n/a
                                + 03:7001.2    224.66    1.339 No_date    2:43    3.95 n/a
  [DT= 1.67]  SUM= 10:2004.2    226.94    1.353 No_date    2:43    3.97 n/a
007:0028-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD 01:3001          78.24     .488 No_date    2:35    3.01 .122
  [CN= 61.9: N= 3.00]
  [Tp= .44:DT= 5.00]
007:0029-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL -> 01:3001          78.24     .488 No_date    2:35    3.01 n/a
  [RDT= 1.67] out<- 03:3.002    78.24     .481 No_date    2:38    3.01 n/a
  [L/s/n= 1097./9.080/.050]
  {vmax= 4.589:Dmax= .006}
007:0030-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD 01:3002          9.19     .064 No_date    2:40    3.77 .152
  [CN= 67.8: N= 3.00]
  [Tp= .53:DT= 5.00]
007:0031-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                        01:3002          9.19     .064 No_date    2:40    3.77 n/a
                                + 03:3.002    78.24     .481 No_date    2:38    3.01 n/a
  [DT= 1.67]  SUM= 04:3002.2    87.43     .545 No_date    2:38    3.09 n/a
007:0032-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD 01:3010          4.15     .057 No_date    2:05    3.08 .124
  [CN= 62.5: N= 3.00]
  [Tp= .11:DT= 5.00]
007:0033-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                        01:3010          4.15     .057 No_date    2:05    3.08 n/a
                                + 04:3002.2    87.43     .545 No_date    2:38    3.09 n/a
  [DT= 1.67]  SUM= 09:3010.2    91.58     .560 No_date    2:37    3.09 n/a
007:0034-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3003          1.99     .181 No_date    2:00    13.50 .545
  [XIMP=.48:TIMP=.48]

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EXR.sum

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[LOSS= 2 :CN= 67.8]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]
007:0035-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 04:3004 .40 .053 No_date 2:00 17.93 .724
[XIMP=.70:TIMP=.70]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]
007:0036-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 01:3003 1.99 .181 No_date 2:00 13.50 n/a
+ 04:3004 .40 .053 No_date 2:00 17.93 n/a
[DT= 5.00] SUM= 08:3004.2 2.39 .234 No_date 2:00 14.24 n/a
007:0037-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB STANDHYD 07:3005 2.80 .075 No_date 2:10 7.12 .287
[XIMP=.01:TIMP=.59]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]
007:0038-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD 01:4001 5.28 .062 No_date 2:15 3.51 .141
[CN= 65.9: N= 3.00]
[Tp= .19:DT= 5.00]
007:0039-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL -> 01:4001 5.28 .062 No_date 2:15 3.51 n/a
[RDT= 1.67] out<- 02:4.003 5.28 .047 No_date 2:25 3.51 n/a
[L/S/n= 475./1.260/.050]
{Vmax= .561:Dmax= .024}
007:0040-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD 03:4003 3.13 .026 No_date 2:20 3.10 .125
[CN= 62.6: N= 3.00]
[Tp= .29:DT= 5.00]
007:0041-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD 04:4002 6.34 .093 No_date 2:15 4.72 .190
[CN= 73.5: N= 3.00]
[Tp= .23:DT= 5.00]
007:0042-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 02:4.003 5.28 .047 No_date 2:25 3.51 n/a
+ 03:4003 3.13 .026 No_date 2:20 3.10 n/a
+ 04:4002 6.34 .093 No_date 2:15 4.72 n/a
[DT= 1.67] SUM= 05:4003.2 14.75 .161 No_date 2:20 3.94 n/a
007:0043-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL -> 05:4003.2 14.75 .161 No_date 2:20 3.94 n/a
* [RDT= 1.67] out<- 01:4.006 14.75 .156 No_date 2:23 3.94 n/a
[L/S/n= 357./5.040/.050]
{Vmax= 1.630:Dmax= .007}
007:0044-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD 03:4004A .64 .018 No_date 2:00 4.73 .191
[CN= 73.6: N= 3.00]
[Tp= .06:DT= 5.00]
007:0045-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD 04:4004C 1.13 .024 No_date 2:05 4.73 .191
[CN= 73.6: N= 3.00]
[Tp= .11:DT= 5.00]
#####
#####
007:0046-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD 05:4010 .85 .022 No_date 2:00 4.73 .191
[CN= 73.6: N= 3.00]
[Tp= .07:DT= 5.00]
007:0047-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 05:4010 .85 .022 No_date 2:00 4.73 n/a
+ 03:4004A .64 .018 No_date 2:00 4.73 n/a

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                                EXR.sum
                                + 04:4004C      1.13      .024 No_date      2:05      4.73 n/a
                                + 01:4.006      14.75      .156 No_date      2:23      3.94 n/a
                                [DT= 1.67] SUM= 06:4008.1  17.37      .180 No_date      2:22      4.06 n/a
007:0048-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      03:4004B      .57      .015 No_date      2:00      4.73 .191
  [CN= 73.6: N= 3.00]
  [Tp= .06:DT= 5.00]
#####
#####
007:0049-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:4011      .09      .003 No_date      2:00      4.73 .191
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]
#####
#####
007:0050-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD      03:4004B      .57      .015 No_date      2:00      4.73 n/a
                                + 04:4011      .09      .003 No_date      2:00      4.73 n/a
  [DT= 5.00] SUM= 05:4011      .66      .018 No_date      2:00      4.73 n/a
#####
#####
007:0051-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  DIVERT HYD      -> 05:4011      .66      .018 No_date      2:00      4.73 n/a
    diverted <= 02:Minor      .66      .018 No_date      2:00      4.73 n/a
    diverted <= 03:Major      .00      .000 No_date      0:00      .00 n/a
#####
#####
007:0052-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL      -> 03:Major      .00      .000 No_date      0:00      .00 n/a
* [RDT= 2.00] out<- 01:4.007      .00      .000 No_date      0:00      .00 n/a
  [L/S/n= 250./2.400/.035]
  {Vmax= .000:Dmax= .000}
007:0053-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD      06:4008.1  17.37      .180 No_date      2:22      4.06 n/a
                                + 01:4.007      .00      .000 No_date      0:00      .00 n/a
  [DT= 1.67] SUM= 03:4008.1  17.37      .180 No_date      2:22      4.06 n/a
007:0054-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      06:4006      3.37      .058 No_date      2:05      3.96 .160
  [CN= 69.1: N= 3.00]
  [Tp= .12:DT= 5.00]
007:0055-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    04:4007      5.04      .288 No_date      2:00     10.54 .425
  [XIMP=.31:TIMP=.31]
  [LOSS= 2 :CN= 72.8]
  [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
007:0056-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    05:4008      2.42      .111 No_date      2:00      9.68 .391
  [XIMP=.22:TIMP=.22]
  [LOSS= 2 :CN= 79.3]
  [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
007:0057-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD      03:4008.1  17.37      .180 No_date      2:22      4.06 n/a
                                + 04:4007      5.04      .288 No_date      2:00     10.54 n/a
                                + 05:4008      2.42      .111 No_date      2:00      9.68 n/a
                                + 06:4006      3.37      .058 No_date      2:05      3.96 n/a
  [DT= 1.67] SUM= 01:4008.2  28.20      .521 No_date      2:00      5.69 n/a
007:0058-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB STANDHYD    03:4009      5.11      .462 No_date      2:00     17.91 .723
  [XIMP=.01:TIMP=.90]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]
007:0059-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

```

		EXR. sum					
ADD HYD		01:4008.2	28.20	.521	No_date	2:00	5.69 n/a
		03:4009	5.11	.462	No_date	2:00	17.91 n/a
[DT= 1.67]	SUM=	05:4009.2	33.31	.983	No_date	2:00	7.56 n/a
007:0060	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm
ADD HYD		07:3005	2.80	.075	No_date	2:10	7.12 n/a
		08:3004.2	2.39	.234	No_date	2:00	14.24 n/a
		02:Minor	.66	.018	No_date	2:00	4.73 n/a
[DT= 5.00]	SUM=	04:3005.2	5.85	.292	No_date	2:00	9.76 n/a
007:0061	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm
ADD HYD		09:3010.2	91.58	.560	No_date	2:37	3.09 n/a
		04:3005.2	5.85	.292	No_date	2:00	9.76 n/a
[DT= 1.67]	SUM=	01:3005.2	97.43	.618	No_date	2:35	3.49 n/a
007:0062	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm
* CALIB STANDHYD		03:3006	1.12	.096	No_date	2:00	13.56 .547
		[XIMP=.01:TIMP=.86]					
		[LOSS= 2 :CN= 64.5]					
		[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]					
		[Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]					
007:0063	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm
ADD HYD		01:3005.2	97.43	.618	No_date	2:35	3.49 n/a
		03:3006	1.12	.096	No_date	2:00	13.56 n/a
[DT= 1.67]	SUM=	04:3005.2	98.55	.632	No_date	2:33	3.61 n/a
007:0064	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm
* CALIB STANDHYD		01:3009	1.93	.177	No_date	2:00	15.89 .641
		[XIMP=.01:TIMP=.90]					
		[LOSS= 2 :CN= 64.5]					
		[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]					
		[Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]					
007:0065	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm
ADD HYD		01:3009	1.93	.177	No_date	2:00	15.89 n/a
		04:3005.2	98.55	.632	No_date	2:33	3.61 n/a
[DT= 1.67]	SUM=	03:3009.2	100.48	.664	No_date	2:32	3.84 n/a
007:0066	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm
ADD HYD		10:2004.2	226.94	1.353	No_date	2:43	3.97 n/a
		03:3009.2	100.48	.664	No_date	2:32	3.84 n/a
[DT= 1.67]	SUM=	01:3009.2	327.42	1.992	No_date	2:38	3.93 n/a
007:0067	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm
* CALIB STANDHYD		02:3007	2.08	.060	No_date	2:05	6.42 .259
		[XIMP=.01:TIMP=.36]					
		[LOSS= 2 :CN= 72.4]					
		[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]					
		[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]					
007:0068	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm
ADD HYD		01:3009.2	327.42	1.992	No_date	2:38	3.93 n/a
		02:3007	2.08	.060	No_date	2:05	6.42 n/a
[DT= 1.67]	SUM=	03:3007.2	329.50	2.006	No_date	2:38	3.95 n/a
007:0069	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm
* CALIB NASHYD		01:2005	2.85	.171	No_date	2:00	9.02 .364
		[CN= 87.3: N= 3.00]					
		[Tp= .05:DT= 5.00]					
007:0070	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm
ADD HYD		01:2005	2.85	.171	No_date	2:00	9.02 n/a
		03:3007.2	329.50	2.006	No_date	2:38	3.95 n/a
[DT= 1.67]	SUM=	02:2005.2	332.35	2.030	No_date	2:38	3.99 n/a
007:0071	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm
* CALIB STANDHYD		01:3008	1.61	.046	No_date	2:05	7.18 .290
		[XIMP=.01:TIMP=.40]					
		[LOSS= 2 :CN= 74.3]					
		[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]					
		[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]					
007:0072	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm
ADD HYD		01:3008	1.61	.046	No_date	2:05	7.18 n/a
		02:2005.2	332.35	2.030	No_date	2:38	3.99 n/a

```

                                EXR. sum
[DT= 1.67]  SUM= 03:3008.2  333.96  2.045 No_date  2:38  4.01 n/a
007:0073-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      01:5001      62.50   .118 No_date  2:30   .88 .036
[CN= 30.1: N= 3.00]
[Tp= .41:DT= 5.00]
007:0074-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL   -> 01:5001      62.50   .118 No_date  2:30   .88 n/a
[RD= 1.67] out<- 02:5.002  62.50   .109 No_date  2:42   .88 n/a
[L/S/n= 912./2.030/.050]
{Vmax= 1.544:Dmax= .004}
007:0075-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      03:5002      14.10   .042 No_date  2:20   1.05 .042
[CN= 34.0: N= 3.00]
[Tp= .25:DT= 5.00]
007:0076-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:5004      3.48   .094 No_date  2:05   5.71 .230
[CN= 78.0: N= 3.00]
[Tp= .10:DT= 5.00]
007:0077-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          02:5.002      62.50   .109 No_date  2:42   .88 n/a
                + 03:5002      14.10   .042 No_date  2:20   1.05 n/a
                + 04:5004      3.48   .094 No_date  2:05   5.71 n/a
[DT= 1.67]  SUM= 05:5002.2  80.08   .161 No_date  2:32   1.12 n/a
007:0078-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      01:5003      2.65   .030 No_date  2:10   2.92 .118
[CN= 61.0: N= 3.00]
[Tp= .14:DT= 5.00]
007:0079-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:5003      2.65   .030 No_date  2:10   2.92 n/a
                + 05:5002.2  80.08   .161 No_date  2:32   1.12 n/a
[DT= 1.67]  SUM= 02:5003.2  82.73   .179 No_date  2:15   1.18 n/a
007:0080-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   01:SWALE      .50   .091 No_date  2:00   23.28 .939
[XIMP=.95:TIMP=.95]
[LOSS= 2 :CN= 73.1]
[Pervious area: IAPER= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
007:0002-----
FINISH

```

\*\*\*\*\*

WARNINGS / ERRORS / NOTES

- 001:0003 CALIB NASHYD  
\*\*\* WARNING: Time step is too large for value of TP.  
R.V. may be ok. Peak flow could be off.
- 001:0004 CALIB NASHYD  
\*\*\* WARNING: Time step is too large for value of TP.  
R.V. may be ok. Peak flow could be off.
- 001:0005 CALIB STANDHYD  
\*\*\* WARNING: Storage Coefficient is smaller than DT!  
Use a smaller DT or a larger area.
- 001:0011 CALIB NASHYD  
\*\*\* WARNING: Time step is too large for value of TP.  
R.V. may be ok. Peak flow could be off.
- 001:0012 CALIB STANDHYD  
\*\*\* WARNING: Storage Coefficient is smaller than DT!  
Use a smaller DT or a larger area.
- 001:0021 CALIB STANDHYD  
\*\*\* WARNING: Storage Coefficient is smaller than DT!  
Use a smaller DT or a larger area.



FUT.sum

```

=====
SSSSS W W M M H H Y Y M M 000 999 999 =====
S W W W MM MM H H Y Y MM MM 0 0 9 9 9 9
SSSSS W W W M M M H H H H Y M M M 0 0 ## 9 9 9 9 Ver. 4.02
S W W M M H H Y M M 0 0 9999 9999 July 1999
SSSSS W W M M H H Y M M 000 9 9 =====
9 9 9 9 # 3569108
StormWater Management Hydrologic Model 999 999 =====

```

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*****
***** SWMHYMO-99 Ver/4.02 *****
***** A single event and continuous hydrologic simulation model *****
***** based on the principles of HYMO and its successors *****
***** OTTHYMO-83 and OTTHYMO-89. *****
***** Distributed by: J.F. Sabourin and Associates Inc. *****
***** Ottawa, Ontario: (613) 727-5199 *****
***** Gatineau, Quebec: (819) 243-6858 *****
***** E-Mail: swmhymo@jfsa.Com *****
*****

```

```

+++++
+++++ Licensed user: Philips Engineering Ltd +++++
+++++ Burlington SERIAL#:3569108 +++++
+++++

```

```

*****
***** +++++ PROGRAM ARRAY DIMENSIONS +++++ *****
***** Maximum value for ID numbers : 10 *****
***** Max. number of rainfall points: 15000 *****
***** Max. number of flow points : 15000 *****
*****

```

```

*** DESCRIPTION SUMMARY TABLE HEADERS (units depend on METOUT in START) ***
*** ----- ***
*** ID: Hydrograph IDentification numbers, (1-10). ***
*** NHYD: Hydrograph reference numbers, (6 digits or characters). ***
*** AREA: Drainage area associated with hydrograph, (ac.) or (ha.). ***
*** QPEAK: Peak flow of simulated hydrograph, (ft^3/s) or (m^3/s). ***
*** TpeakDate_hh:mm is the date and time of the peak flow. ***
*** R.V.: Runoff volume of simulated hydrograph, (in) or (mm). ***
*** R.C.: Runoff Coefficient of simulated hydrograph, (ratio). ***
*** *: see WARNING or NOTE message printed at end of run. ***
*** **: see ERROR message printed at end of run. ***
*** ----- ***

```

```

:
*****

```

```

***** SUMMARY OUTPUT *****
*****
* DATE: 2016-07-22 TIME: 13:15:05 RUN COUNTER: 001458 *
*****
* Input filename: C:\swmhymo\TPB163~1\FUT.dat *
* Output filename: C:\swmhymo\TPB163~1\FUT.out *
* Summary filename: C:\swmhymo\TPB163~1\FUT.sum *
* User comments: *
* 1: _____ *
* 2: _____ *
* 3: _____ *

```



FUT.sum

\*\*\*\*\*

```

#*****
# Project Name: [Waterdown Road]      Project Number: [107016]      *
# Date       : 09-14-2007              *
# Modeller   : [KB]                    *
# Company    : Philips Engineering Ltd  *
# License #  : 3569108                 *
#*****

```

RUN:COMMAND#

001:0001-----

START

```

[TZERO = .00 hrs on 0]
[METOUT= 2 (1=imperial, 2=metric output)]
[NSTORM= 1 ]
[NRUN = 1 ]

```

001:0002-----

READ STORM

```

Filename = STORM.001
Comment = 2 Year SCS 12 hour City of Burlington (2004)
[SDT=10.00:SDUR= 12.00:PTOT= 42.61]

```

001:0003-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

CALIB NASHYD      01:4001      5.28      .146 No_date      6:05      9.80 .230
[CN= 65.9: N= 3.00]
[Tp= .19:DT= 5.00]

```

001:0004-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

ROUTE CHANNEL    -> 01:4001      5.28      .146 No_date      6:05      9.80 n/a
[RDT= 1.67] out<- 02:4.003      5.28      .105 No_date      6:13      9.80 n/a
[L/S/n= 475./1.260/.050]
{Vmax= .561:Dmax= .056}

```

001:0005-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

CALIB NASHYD      03:4003      3.13      .059 No_date      6:10      8.76 .206
[CN= 62.6: N= 3.00]
[Tp= .29:DT= 5.00]

```

001:0006-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

CALIB NASHYD      04:4002      6.34      .207 No_date      6:05     12.74 .299
[CN= 73.5: N= 3.00]
[Tp= .23:DT= 5.00]

```

001:0007-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

ADD HYD           02:4.003      5.28      .105 No_date      6:13      9.80 n/a
                  + 03:4003      3.13      .059 No_date      6:10      8.76 n/a
                  + 04:4002      6.34      .207 No_date      6:05     12.74 n/a
[DT= 1.67] SUM= 05:4003.2    14.75     .357 No_date      6:10     10.84 n/a

```

001:0008-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

ROUTE CHANNEL    -> 05:4003.2    14.75     .357 No_date      6:10     10.84 n/a
* [RDT= 1.67] out<- 01:4.006    14.75     .346 No_date      6:12     10.84 n/a
[L/S/n= 357./5.040/.050]
{Vmax= 1.630:Dmax= .015}

```

001:0009-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

* CALIB NASHYD      02:4004A      .10      .006 No_date      6:00     12.77 .300
[CN= 73.6: N= 3.00]
[Tp= .03:DT= 5.00]

```

001:0010-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

* CALIB NASHYD      03:4004B      .36      .022 No_date      6:00     12.77 .300
[CN= 73.6: N= 3.00]
[Tp= .05:DT= 5.00]

```

001:0011-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

* CALIB NASHYD      04:4004C      1.13      .056 No_date      6:00     12.77 .300
[CN= 73.6: N= 3.00]
[Tp= .11:DT= 5.00]

```

```

#####
# NEW FELLOWSHIP CHURCH - WEST DRAINAGE TO GRINDSTONE TRIB 4      #

```

FUT.sum

```
#####
001:0012-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 05:4010A .35 .042 No_date 6:00 31.06 .729
[XIMP=.63:TIMP=.63]
[LOSS= 2 :CN= 73.6]
[Pervious area: IAper= 2.50:SLPP=1.00:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.00:LGI= 30.:MNI=.013:SCI= .0]
001:0013-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD 06:4010B .21 .013 No_date 6:00 12.77 .300
[CN= 73.6: N= 3.00]
[Tp= .04:DT= 5.00]
001:0014-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 07:4010C .14 .013 No_date 6:00 23.00 .540
[XIMP=.36:TIMP=.36]
[LOSS= 2 :CN= 73.6]
[Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 20.:MNI=.013:SCI= .0]
#####
001:0015-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 05:4010A .35 .042 No_date 6:00 31.06 n/a
+ 06:4010B .21 .013 No_date 6:00 12.77 n/a
+ 07:4010C .14 .013 No_date 6:00 23.00 n/a
[DT= 5.00] SUM= 08:WestSi .70 .068 No_date 6:00 23.96 n/a
001:0016-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 01:4.006 14.75 .346 No_date 6:12 10.84 n/a
+ 02:4004A .10 .006 No_date 6:00 12.77 n/a
+ 03:4004B .36 .022 No_date 6:00 12.77 n/a
+ 04:4004C 1.13 .056 No_date 6:00 12.77 n/a
+ 08:WestSi .70 .068 No_date 6:00 23.96 n/a
[DT= 1.67] SUM= 09:4008.1 17.04 .382 No_date 6:12 11.56 n/a
#####
# NEW FELLOWSHIP CHURCH - EAST MAJOR DRAINAGE TO GRINDSTONE TRIB 4 #
#####
001:0017-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:4011A .12 .012 No_date 6:00 23.60 .554
[XIMP=.38:TIMP=.38]
[LOSS= 2 :CN= 73.6]
[Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
001:0018-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 02:4011B .10 .010 No_date 6:00 25.69 .603
[XIMP=.45:TIMP=.45]
[LOSS= 2 :CN= 73.6]
[Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
#####
001:0019-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD 03:4004D .57 .033 No_date 6:00 12.77 .300
[CN= 73.6: N= 3.00]
[Tp= .06:DT= 5.00]
001:0020-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD 04:4011ex .18 .011 No_date 6:00 12.77 .300
[CN= 73.6: N= 3.00]
[Tp= .03:DT= 5.00]
001:0021-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 01:4011A .12 .012 No_date 6:00 23.60 n/a
+ 02:4011B .10 .010 No_date 6:00 25.69 n/a
+ 03:4004D .57 .033 No_date 6:00 12.77 n/a
+ 04:4011ex .18 .011 No_date 6:00 12.77 n/a
[DT= 5.00] SUM= 05:4011 .97 .066 No_date 6:00 15.44 n/a
#####
#####
001:0022-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
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                                FUT.sum
DIVERT HYD      -> 05:4011      .97      .066 No_date      6:00      15.44 n/a
  diverted <= 02:Minor      .97      .066 No_date      6:00      15.44 n/a
  diverted <= 03:Major      .00      .000 No_date      0:00      .00 n/a
#####
001:0023-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL  -> 03:Major      .00      .000 No_date      0:00      .00 n/a
* [RDT= 2.00] out<- 01:4.007  .00      .000 No_date      0:00      .00 n/a
  [L/S/n= 250./2.400/.035]
  {Vmax= .000:Dmax= .000}
001:0024-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD        09:4008.1      17.04      .382 No_date      6:12      11.56 n/a
  + 01:4.007      .00      .000 No_date      0:00      .00 n/a
  [DT= 1.67] SUM= 03:4008.1  17.04      .382 No_date      6:12      11.56 n/a
001:0025-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD 06:4006      3.37      .139 No_date      6:00      10.92 .256
  [CN= 69.1: N= 3.00]
  [Tp= .12:DT= 5.00]
001:0026-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 04:4007      5.04      .377 No_date      6:00      21.41 .503
  [XIMP=.31:TIMP=.31]
  [LOSS= 2 :CN= 72.8]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
001:0027-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 05:4008      2.42      .195 No_date      6:00      21.02 .493
  [XIMP=.22:TIMP=.22]
  [LOSS= 2 :CN= 79.3]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
001:0028-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD        03:4008.1      17.04      .382 No_date      6:12      11.56 n/a
  + 04:4007      5.04      .377 No_date      6:00      21.41 n/a
  + 05:4008      2.42      .195 No_date      6:00      21.02 n/a
  + 06:4006      3.37      .139 No_date      6:00      10.92 n/a
  [DT= 1.67] SUM= 01:4008.2  27.87      1.090 No_date      6:00      14.09 n/a
001:0029-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB STANDHYD 03:4009      5.11      .591 No_date      6:00      34.89 .819
  [XIMP=.01:TIMP=.90]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]
001:0030-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD        01:4008.2      27.87      1.090 No_date      6:00      14.09 n/a
  + 03:4009      5.11      .591 No_date      6:00      34.89 n/a
  [DT= 1.67] SUM= 05:4009.2  32.98      1.681 No_date      6:00      17.31 n/a
001:0031-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD 01:6001      2.45      .090 No_date      6:00      8.82 .207
  [CN= 62.8: N= 3.00]
  [Tp= .09:DT= 5.00]
001:0032-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD 10:6002      11.01      .478 No_date      6:00      13.26 .311
  [CN= 74.6: N= 3.00]
  [Tp= .15:DT= 5.00]
001:0033-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 03:6004      1.46      .199 No_date      6:00      33.97 .797
  [XIMP=.01:TIMP=.81]
  [LOSS= 2 :CN= 82.4]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
001:0034-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD        01:6001      2.45      .090 No_date      6:00      8.82 n/a
  + 10:6002      11.01      .478 No_date      6:00      13.26 n/a
  + 03:6004      1.46      .199 No_date      6:00      33.97 n/a

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ID	DESCRIPTION	DT	SUM	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.
001:0035	CALIB NASHYD	04:6002.2	14.92	.767	No_date	6:00	14.56	n/a
	[CN= 64.0: N= 3.00]							
	[Tp= .38:DT= 5.00]							
001:0036	ROUTE CHANNEL ->	01:1001	47.64	.796	No_date	6:15	9.19	n/a
	[RDT= 1.67] out<-	10:1.002	47.64	.762	No_date	6:22	9.19	n/a
	[L/S/n= 402./2.240/.050]							
	{Vmax= 1.186:Dmax= .087}							
001:0037	CALIB NASHYD	01:1002	4.51	.117	No_date	6:05	8.85	.208
	[CN= 62.9: N= 3.00]							
	[Tp= .17:DT= 5.00]							
001:0038	ADD HYD	10:1.002	47.64	.762	No_date	6:22	9.19	n/a
	+ 01:1002	4.51	.117	No_date	6:05	8.85	n/a	
	[DT= 1.67] SUM=	03:1002.2	52.15	.812	No_date	6:20	9.17	n/a
* 001:0039	CALIB NASHYD	01:1003	2.41	.092	No_date	6:00	11.45	.269
	[CN= 70.4: N= 3.00]							
	[Tp= .14:DT= 5.00]							
* 001:0040	CALIB STANDHYD	05:1004	1.36	.189	No_date	6:00	34.68	.814
	[XIMP=.01:TIMP=.89]							
	[LOSS= 2 :CN= 74.0]							
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]							
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]							
001:0041	ADD HYD	01:1003	2.41	.092	No_date	6:00	11.45	n/a
	+ 03:1002.2	52.15	.812	No_date	6:20	9.17	n/a	
	+ 05:1004	1.36	.189	No_date	6:00	34.68	n/a	
	[DT= 1.67] SUM=	10:1004.2	55.92	.875	No_date	6:18	9.88	n/a
001:0042	ADD HYD	04:6002.2	14.92	.767	No_date	6:00	14.56	n/a
	+ 10:1004.2	55.92	.875	No_date	6:18	9.88	n/a	
	[DT= 1.67] SUM=	01:1004.2	70.84	1.518	No_date	6:00	10.87	n/a
001:0043	CALIB NASHYD	10:6003	5.59	.265	No_date	6:00	15.58	.366
	[CN= 79.0: N= 3.00]							
	[Tp= .17:DT= 5.00]							
001:0044	ADD HYD	01:1004.2	70.84	1.518	No_date	6:00	10.87	n/a
	+ 10:6003	5.59	.265	No_date	6:00	15.58	n/a	
	[DT= 1.67] SUM=	03:6003.2	76.43	1.783	No_date	6:00	11.21	n/a
001:0045	CALIB NASHYD	01:2001	136.38	2.081	No_date	6:25	10.47	.246
	[CN= 67.8: N= 3.00]							
	[Tp= .52:DT= 5.00]							
001:0046	ROUTE CHANNEL ->	01:2001	136.38	2.081	No_date	6:25	10.47	n/a
	[RDT= 1.67] out<-	10:2.002	136.38	1.832	No_date	6:43	10.47	n/a
	[L/S/n= 933./1.500/.050]							
	{Vmax= .970:Dmax= .318}							
001:0047	CALIB NASHYD	01:2002	7.78	.099	No_date	6:25	8.73	.205
	[CN= 62.5: N= 3.00]							
	[Tp= .51:DT= 5.00]							
001:0048	ADD HYD	10:2.002	136.38	1.832	No_date	6:43	10.47	n/a
	+ 01:2002	7.78	.099	No_date	6:25	8.73	n/a	
	[DT= 1.67] SUM=	04:2001.2	144.16	1.920	No_date	6:42	10.37	n/a
001:0049								

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                                FUT.sum
* CALIB STANDHYD      01:2003      .96      .130 No_date      6:00      32.58 .765
  [XIMP=.01:TIMP=.86]
  [LOSS= 2 :CN= 74.0]
  [Pervious      area: IAper= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]
  [Impervious    area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]
001:0050-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:2003          .96      .130 No_date      6:00      32.58 n/a
                + 04:2001.2      144.16    1.920 No_date      6:42      10.37 n/a
  [DT= 1.67]  SUM= 10:2002.2      145.12    1.929 No_date      6:42      10.52 n/a
001:0051-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          10:2002.2      145.12    1.929 No_date      6:42      10.52 n/a
                + 03:6003.2       76.43    1.783 No_date      6:00      11.21 n/a
  [DT= 1.67]  SUM= 01:2002.2      221.55    2.861 No_date      6:30      10.76 n/a
001:0052-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      10:7001       3.11      .116 No_date      6:00      9.27 .218
  [CN= 64.3: N= 3.00]
  [Tp= .10:DT= 5.00]
001:0053-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:2002.2      221.55    2.861 No_date      6:30      10.76 n/a
                + 10:7001       3.11      .116 No_date      6:00      9.27 n/a
  [DT= 1.67]  SUM= 03:7001.2      224.66    2.883 No_date      6:30      10.74 n/a
001:0054-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      01:2004       2.28      .136 No_date      6:00      15.06 .353
  [XIMP=.01:TIMP=.40]
  [LOSS= 2 :CN= 68.0]
  [Pervious      area: IAper= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]
  [Impervious    area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]
001:0055-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:2004       2.28      .136 No_date      6:00      15.06 n/a
                + 03:7001.2      224.66    2.883 No_date      6:30      10.74 n/a
  [DT= 1.67]  SUM= 10:2004.2      226.94    2.909 No_date      6:30      10.78 n/a
001:0056-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD      01:3001       78.24     1.089 No_date      6:20      8.55 .201
  [CN= 61.9: N= 3.00]
  [Tp= .44:DT= 5.00]
001:0057-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL    -> 01:3001       78.24     1.089 No_date      6:20      8.55 n/a
  [RDT= 1.67] out<- 03:3.002       78.24     1.069 No_date      6:25      8.55 n/a
  [L/s/n= 1097./9.080/.050]
  {Vmax= 4.589:Dmax= .014}
001:0058-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD      01:3002       9.19      .138 No_date      6:25      10.46 .245
  [CN= 67.8: N= 3.00]
  [Tp= .53:DT= 5.00]
001:0059-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:3002       9.19      .138 No_date      6:25      10.46 n/a
                + 03:3.002       78.24     1.069 No_date      6:25      8.55 n/a
  [DT= 1.67]  SUM= 04:3002.2      87.43     1.207 No_date      6:25      8.75 n/a
001:0060-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      01:3010       4.15      .141 No_date      6:00      8.73 .205
  [CN= 62.5: N= 3.00]
  [Tp= .11:DT= 5.00]
001:0061-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:3010       4.15      .141 No_date      6:00      8.73 n/a
                + 04:3002.2      87.43     1.207 No_date      6:25      8.75 n/a
  [DT= 1.67]  SUM= 03:3010.2      91.58     1.236 No_date      6:25      8.75 n/a
001:0062-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      01:3003       1.99      .182 No_date      6:00      25.49 .598
  [XIMP=.48:TIMP=.48]
  [LOSS= 2 :CN= 67.8]
  [Pervious      area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]
  [Impervious    area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]
001:0063-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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                                FUT.sum
* CALIB STANDHYD      04:3004      .40      .047 No_date      6:00      32.19 .756
  [XIMP=.70:TIMP=.70]
  [LOSS= 2 :CN= 64.5]
  [Pervious      area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]
  [Impervious    area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]
001:0064-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:3003          1.99      .182 No_date      6:00      25.49 n/a
                + 04:3004          .40      .047 No_date      6:00      32.19 n/a
  [DT= 5.00]  SUM= 05:3004.2      2.39      .229 No_date      6:00      26.61 n/a
001:0065-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB STANDHYD  01:3005          2.80      .155 No_date      6:00      17.70 .415
  [XIMP=.01:TIMP=.59]
  [LOSS= 2 :CN= 64.5]
  [Pervious      area: IAper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]
  [Impervious    area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]
001:0066-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:3005          2.80      .155 No_date      6:00      17.70 n/a
                + 02:Minor          .97      .066 No_date      6:00      15.44 n/a
                + 05:3004.2      2.39      .229 No_date      6:00      26.61 n/a
  [DT= 5.00]  SUM= 04:3005.2      6.16      .450 No_date      6:00      20.80 n/a
001:0067-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          03:3010.2      91.58     1.236 No_date      6:25      8.75 n/a
                + 04:3005.2      6.16      .450 No_date      6:00      20.80 n/a
  [DT= 1.67]  SUM= 01:3005.2      97.74     1.336 No_date      6:23      9.51 n/a
001:0068-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD  03:3006          1.12      .137 No_date      6:00      28.85 .677
  [XIMP=.01:TIMP=.86]
  [LOSS= 2 :CN= 64.5]
  [Pervious      area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious    area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]
001:0069-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:3005.2      97.74     1.336 No_date      6:23      9.51 n/a
                + 03:3006          1.12      .137 No_date      6:00      28.85 n/a
  [DT= 1.67]  SUM= 04:3005.2      98.86     1.357 No_date      6:23      9.73 n/a
001:0070-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD  01:3009          1.93      .246 No_date      6:00      32.20 .756
  [XIMP=.01:TIMP=.90]
  [LOSS= 2 :CN= 64.5]
  [Pervious      area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]
  [Impervious    area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]
001:0071-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:3009          1.93      .246 No_date      6:00      32.20 n/a
                + 04:3005.2      98.86     1.357 No_date      6:23      9.73 n/a
  [DT= 1.67]  SUM= 03:3009.2      100.79    1.511 No_date      6:00      10.16 n/a
001:0072-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          10:2004.2      226.94    2.909 No_date      6:30      10.78 n/a
                + 03:3009.2      100.79    1.511 No_date      6:00      10.16 n/a
  [DT= 1.67]  SUM= 01:3009.2      327.73    4.271 No_date      6:28      10.59 n/a
001:0073-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD  02:3007          2.08      .139 No_date      6:00      16.46 .386
  [XIMP=.01:TIMP=.36]
  [LOSS= 2 :CN= 72.4]
  [Pervious      area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]
  [Impervious    area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
001:0074-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:3009.2      327.73    4.271 No_date      6:28      10.59 n/a
                + 02:3007          2.08      .139 No_date      6:00      16.46 n/a
  [DT= 1.67]  SUM= 03:3007.2      329.81    4.328 No_date      6:00      10.63 n/a
001:0075-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    01:2005          2.85      .287 No_date      6:00      21.70 .509
  [CN= 87.3: N= 3.00]
  [Tp= .05:DT= 5.00]
001:0076-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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                                FUT.sum
ADD HYD                        01:2005      2.85      .287 No_date    6:00    21.70  n/a
                                + 03:3007.2  329.81    4.328 No_date    6:00    10.63  n/a
  [DT= 1.67]  SUM=            02:2005.2  332.66    4.615 No_date    6:00    10.72  n/a
001:0077-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD              01:3008      1.61      .114 No_date    6:00    18.03  .423
  [XIMP=.01:TIMP=.40]
  [LOSS= 2 :CN= 74.3]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
001:0078-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                        01:3008      1.61      .114 No_date    6:00    18.03  n/a
                                + 02:2005.2  332.66    4.615 No_date    6:00    10.72  n/a
  [DT= 1.67]  SUM=            03:3008.2  334.27    4.729 No_date    6:00    10.76  n/a
001:0079-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD                  01:5001      62.50     .277 No_date    6:20    2.68  .063
  [CN= 30.1: N= 3.00]
  [Tp= .41:DT= 5.00]
001:0080-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL -> 01:5001      62.50     .277 No_date    6:20    2.68  n/a
  [RDT= 1.67] out<- 02:5.002  62.50     .254 No_date    6:30    2.68  n/a
  [L/S/n= 912./2.030/.050]
  {Vmax= 1.544:Dmax= .009}
001:0081-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD                  03:5002     14.10     .101 No_date    6:10    3.16  .074
  [CN= 34.0: N= 3.00]
  [Tp= .25:DT= 5.00]
001:0082-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD                04:5004      3.48     .208 No_date    6:00    14.99  .352
  [CN= 78.0: N= 3.00]
  [Tp= .10:DT= 5.00]
001:0083-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                        02:5.002    62.50     .254 No_date    6:30    2.68  n/a
                                + 03:5002    14.10     .101 No_date    6:10    3.16  n/a
                                + 04:5004      3.48     .208 No_date    6:00    14.99  n/a
  [DT= 1.67]  SUM=            05:5002.2  80.08     .380 No_date    6:00     3.30  n/a
001:0084-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD                01:5003      2.65     .073 No_date    6:00     8.30  .195
  [CN= 61.0: N= 3.00]
  [Tp= .14:DT= 5.00]
001:0085-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                        01:5003      2.65     .073 No_date    6:00     8.30  n/a
                                + 05:5002.2  80.08     .380 No_date    6:00     3.30  n/a
  [DT= 1.67]  SUM=            02:5003.2  82.73     .453 No_date    6:00     3.46  n/a
001:0086-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD              01:SWALE      .50     .075 No_date    6:00    40.61  .953
  [XIMP=.95:TIMP=.95]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
** END OF RUN : 1

```

\*\*\*\*\*

```

RUN:COMMAND#
002:0001-----
START
  [TZERO = .00 hrs on 0]
  [METOUT= 2 (1=imperial, 2=metric output)]
  [NSTORM= 1 ]

```

[NRUN = 2 ]

```

*****
# Project Name: [Waterdown Road]      Project Number: [107016]      *
# Date       : 09-14-2007              *
# Modeller   : [KB]                    *
# Company    : Philips Engineering Ltd  *
# License #  : 3569108                 *
*****
    
```

002:0002-----  
 READ STORM

Filename = STORM.001  
 Comment = 5 Year SCS 12 hour City of Burlington (2004)  
 [SDT=10.00:SDUR= 12.00:PTOT= 58.89]

002:0003-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
 CALIB NASHYD 01:4001 5.28 .263 No\_date 6:05 17.46 .296  
 [CN= 65.9: N= 3.00]  
 [Tp= .19:DT= 5.00]

002:0004-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
 ROUTE CHANNEL -> 01:4001 5.28 .263 No\_date 6:05 17.46 n/a  
 [RDT= 1.67] out<- 02:4.003 5.28 .189 No\_date 6:13 17.46 n/a  
 [L/S/n= 475./1.260/.050]  
 {Vmax= .561:Dmax= .101}

002:0005-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
 CALIB NASHYD 03:4003 3.13 .108 No\_date 6:10 15.75 .267  
 [CN= 62.6: N= 3.00]  
 [Tp= .29:DT= 5.00]

002:0006-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
 CALIB NASHYD 04:4002 6.34 .364 No\_date 6:05 22.11 .375  
 [CN= 73.5: N= 3.00]  
 [Tp= .23:DT= 5.00]

002:0007-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
 ADD HYD  
 + 02:4.003 5.28 .189 No\_date 6:13 17.46 n/a  
 + 03:4003 3.13 .108 No\_date 6:10 15.75 n/a  
 + 04:4002 6.34 .364 No\_date 6:05 22.11 n/a  
 [DT= 1.67] SUM= 05:4003.2 14.75 .634 No\_date 6:10 19.10 n/a

002:0008-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
 \* ROUTE CHANNEL -> 05:4003.2 14.75 .634 No\_date 6:10 19.10 n/a  
 [RDT= 1.67] out<- 01:4.006 14.75 .616 No\_date 6:12 19.10 n/a  
 [L/S/n= 357./5.040/.050]  
 {Vmax= 1.630:Dmax= .028}

002:0009-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
 \* CALIB NASHYD 02:4004A .10 .011 No\_date 6:00 22.17 .376  
 [CN= 73.6: N= 3.00]  
 [Tp= .03:DT= 5.00]

002:0010-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
 \* CALIB NASHYD 03:4004B .36 .038 No\_date 6:00 22.17 .376  
 [CN= 73.6: N= 3.00]  
 [Tp= .05:DT= 5.00]

002:0011-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
 \* CALIB NASHYD 04:4004C 1.13 .098 No\_date 6:00 22.17 .376  
 [CN= 73.6: N= 3.00]  
 [Tp= .11:DT= 5.00]

```

#####
# NEW FELLOWSHIP CHURCH - WEST DRAINAGE TO GRINDSTONE TRIB 4      #
#####
    
```

002:0012-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
 \* CALIB STANDHYD 05:4010A .35 .061 No\_date 6:00 44.76 .760  
 [XIMP=.63:TIMP=.63]  
 [LOSS= 2 :CN= 73.6]  
 [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 5.:MNP=.035:SCP= .0]  
 [Impervious area: IAimp= .50:SLPI=1.00:LGI= 30.:MNI=.013:SCI= .0]

002:0013-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-  
 \* CALIB NASHYD 06:4010B .21 .022 No\_date 6:00 22.17 .376



FUT.sum

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[CN= 73.6: N= 3.00]
[TP= .04:DT= 5.00]
002:0014-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      07:4010C      .14      .020 No_date      6:00      34.81 .591
[XIMP=.36:TIMP=.36]
[LOSS= 2 :CN= 73.6]
[Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 20.:MNI=.013:SCI= .0]
#####
002:0015-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD              05:4010A      .35      .061 No_date      6:00      44.76 n/a
+ 06:4010B          .21      .022 No_date      6:00      22.17 n/a
+ 07:4010C          .14      .020 No_date      6:00      34.81 n/a
[DT= 5.00] SUM= 08:WestSi      .70      .103 No_date      6:00      35.99 n/a
002:0016-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD              01:4.006      14.75     .616 No_date      6:12      19.10 n/a
+ 02:4004A          .10      .011 No_date      6:00      22.17 n/a
+ 03:4004B          .36      .038 No_date      6:00      22.17 n/a
+ 04:4004C          1.13     .098 No_date      6:00      22.17 n/a
+ 08:WestSi          .70      .103 No_date      6:00      35.99 n/a
[DT= 1.67] SUM= 09:4008.1     17.04     .675 No_date      6:12      20.08 n/a
#####
# NEW FELLOWSHIP CHURCH - EAST MAJOR DRAINAGE TO GRINDSTONE TRIB 4 #
#####
002:0017-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      01:4011A      .12      .018 No_date      6:00      35.55 .604
[XIMP=.38:TIMP=.38]
[LOSS= 2 :CN= 73.6]
[Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
002:0018-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      02:4011B      .10      .015 No_date      6:00      38.13 .647
[XIMP=.45:TIMP=.45]
[LOSS= 2 :CN= 73.6]
[Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
#####
002:0019-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD        03:4004D      .57      .058 No_date      6:00      22.17 .376
[CN= 73.6: N= 3.00]
[TP= .06:DT= 5.00]
002:0020-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD        04:4011ex     .18      .019 No_date      6:00      22.17 .376
[CN= 73.6: N= 3.00]
[TP= .03:DT= 5.00]
002:0021-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD              01:4011A      .12      .018 No_date      6:00      35.55 n/a
+ 02:4011B          .10      .015 No_date      6:00      38.13 n/a
+ 03:4004D          .57      .058 No_date      6:00      22.17 n/a
+ 04:4011ex         .18      .019 No_date      6:00      22.17 n/a
[DT= 5.00] SUM= 05:4011      .97      .110 No_date      6:00      25.47 n/a
#####
002:0022-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
DIVERT HYD -> 05:4011      .97      .110 No_date      6:00      25.47 n/a
diverted <= 02:Minor      .89      .067 No_date      6:00      25.47 n/a
diverted <= 03:Major      .08      .043 No_date      6:00      25.47 n/a
#####
002:0023-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL -> 03:Major      .08      .043 No_date      6:00      25.47 n/a
* [RDT= 1.67] out<- 01:4.007      .08      .027 No_date      6:02      25.47 n/a
[L/S/n= 250./2.400/.035]
{Vmax= .771:Dmax= .106}

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                                FUT.sum
002:0024-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          09:4008.1    17.04    .675 No_date    6:12    20.08  n/a
                   + 01:4.007      .08     .027 No_date    6:02    25.47  n/a
  [DT= 1.67]  SUM= 03:4008.1    17.12    .685 No_date    6:02    20.10  n/a
002:0025-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    06:4006      3.37     .246 No_date    6:00    19.27  .327
  [CN= 69.1: N= 3.00]
  [Tp= .12:DT= 5.00]
002:0026-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 04:4007      5.04     .631 No_date    6:00    32.77  .556
  [XIMP=.31:TIMP=.31]
  [LOSS= 2 :CN= 72.8]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
002:0027-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 05:4008      2.42     .317 No_date    6:00    33.02  .561
  [XIMP=.22:TIMP=.22]
  [LOSS= 2 :CN= 79.3]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
002:0028-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          03:4008.1    17.12    .685 No_date    6:02    20.10  n/a
                   + 04:4007      5.04     .631 No_date    6:00    32.77  n/a
                   + 05:4008      2.42     .317 No_date    6:00    33.02  n/a
                   + 06:4006      3.37     .246 No_date    6:00    19.27  n/a
  [DT= 1.67]  SUM= 01:4008.2    27.95    1.877 No_date    6:00    23.41  n/a
002:0029-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 03:4009      5.11     .950 No_date    6:00    50.79  .862
  [XIMP=.01:TIMP=.90]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]
002:0030-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:4008.2    27.95    1.877 No_date    6:00    23.41  n/a
                   + 03:4009      5.11     .950 No_date    6:00    50.79  n/a
  [DT= 1.67]  SUM= 05:4009.2    33.06    2.827 No_date    6:00    27.64  n/a
002:0031-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    01:6001      2.45     .161 No_date    6:00    15.85  .269
  [CN= 62.8: N= 3.00]
  [Tp= .09:DT= 5.00]
002:0032-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    10:6002     11.01     .835 No_date    6:00    22.92  .389
  [CN= 74.6: N= 3.00]
  [Tp= .15:DT= 5.00]
002:0033-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 03:6004      1.46     .290 No_date    6:00    49.78  .845
  [XIMP=.01:TIMP=.81]
  [LOSS= 2 :CN= 82.4]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
002:0034-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:6001      2.45     .161 No_date    6:00    15.85  n/a
                   + 10:6002     11.01     .835 No_date    6:00    22.92  n/a
                   + 03:6004      1.46     .290 No_date    6:00    49.78  n/a
  [DT= 5.00]  SUM= 04:6002.2    14.92    1.286 No_date    6:00    24.39  n/a
002:0035-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD    01:1001     47.64    1.443 No_date    6:15    16.46  .280
  [CN= 64.0: N= 3.00]
  [Tp= .38:DT= 5.00]
002:0036-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL  -> 01:1001     47.64    1.443 No_date    6:15    16.46  n/a
  [RDT= 1.67] out<- 10:1.002    47.64    1.380 No_date    6:22    16.46  n/a
  [L/S/n= 402./2.240/.050]

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FUT.sum

ID	DESCRIPTION	ID:NHYD	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.
002:0037	CALIB NASHYD	01:1002	4.51	.211	No_date 6:05	15.90	.270
	[CN= 62.9: N= 3.00]						
	[Tp= .17:DT= 5.00]						
002:0038	ADD HYD	10:1.002	47.64	1.380	No_date 6:22	16.46	n/a
	+ 01:1002		4.51	.211	No_date 6:05	15.90	n/a
	[DT= 1.67] SUM= 03:1002.2		52.15	1.471	No_date 6:20	16.42	n/a
002:0039	* CALIB NASHYD	01:1003	2.41	.163	No_date 6:00	20.09	.341
	[CN= 70.4: N= 3.00]						
	[Tp= .14:DT= 5.00]						
002:0040	* CALIB STANDHYD	05:1004	1.36	.273	No_date 6:00	50.56	.858
	[XIMP=.01:TIMP=.89]						
	[LOSS= 2 :CN= 74.0]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]						
002:0041	ADD HYD	01:1003	2.41	.163	No_date 6:00	20.09	n/a
	+ 03:1002.2		52.15	1.471	No_date 6:20	16.42	n/a
	+ 05:1004		1.36	.273	No_date 6:00	50.56	n/a
	[DT= 1.67] SUM= 10:1004.2		55.92	1.570	No_date 6:18	17.40	n/a
002:0042	ADD HYD	04:6002.2	14.92	1.286	No_date 6:00	24.39	n/a
	+ 10:1004.2		55.92	1.570	No_date 6:18	17.40	n/a
	[DT= 1.67] SUM= 01:1004.2		70.84	2.589	No_date 6:00	18.87	n/a
002:0043	CALIB NASHYD	10:6003	5.59	.455	No_date 6:00	26.40	.448
	[CN= 79.0: N= 3.00]						
	[Tp= .17:DT= 5.00]						
002:0044	ADD HYD	01:1004.2	70.84	2.589	No_date 6:00	18.87	n/a
	+ 10:6003		5.59	.455	No_date 6:00	26.40	n/a
	[DT= 1.67] SUM= 03:6003.2		76.43	3.044	No_date 6:00	19.42	n/a
002:0045	CALIB NASHYD	01:2001	136.38	3.731	No_date 6:25	18.53	.315
	[CN= 67.8: N= 3.00]						
	[Tp= .52:DT= 5.00]						
002:0046	ROUTE CHANNEL ->	01:2001	136.38	3.731	No_date 6:25	18.53	n/a
	[RDT= 1.67] out<-	10:2.002	136.38	3.275	No_date 6:42	18.53	n/a
	[L/S/n= 933./1.500/.050]						
	{Vmax= .980:Dmax= .513}						
002:0047	CALIB NASHYD	01:2002	7.78	.181	No_date 6:25	15.70	.267
	[CN= 62.5: N= 3.00]						
	[Tp= .51:DT= 5.00]						
002:0048	ADD HYD	10:2.002	136.38	3.275	No_date 6:42	18.53	n/a
	+ 01:2002		7.78	.181	No_date 6:25	15.70	n/a
	[DT= 1.67] SUM= 04:2001.2		144.16	3.434	No_date 6:42	18.38	n/a
002:0049	* CALIB STANDHYD	01:2003	.96	.190	No_date 6:00	48.20	.818
	[XIMP=.01:TIMP=.86]						
	[LOSS= 2 :CN= 74.0]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]						
002:0050	ADD HYD	01:2003	.96	.190	No_date 6:00	48.20	n/a
	+ 04:2001.2		144.16	3.434	No_date 6:42	18.38	n/a
	[DT= 1.67] SUM= 10:2002.2		145.12	3.446	No_date 6:42	18.58	n/a

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                                FUT.sum
002:0051-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                10:2002.2  145.12  3.446 No_date  6:42  18.58 n/a
                        +  03:6003.2   76.43  3.044 No_date  6:00  19.42 n/a
  [DT= 1.67]  SUM=  01:2002.2  221.55  5.100 No_date  6:30  18.87 n/a
002:0052-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD          10:7001      3.11    .209 No_date  6:00  16.59 .282
  [CN= 64.3: N= 3.00]
  [Tp= .10:DT= 5.00]
002:0053-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                01:2002.2  221.55  5.100 No_date  6:30  18.87 n/a
                        +  10:7001      3.11    .209 No_date  6:00  16.59 n/a
  [DT= 1.67]  SUM=  03:7001.2  224.66  5.139 No_date  6:30  18.84 n/a
002:0054-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD       01:2004      2.28    .240 No_date  6:00  25.57 .434
  [XIMP=.01:TIMP=.40]
  [LOSS= 2 :CN= 68.0]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]
002:0055-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                01:2004      2.28    .240 No_date  6:00  25.57 n/a
                        +  03:7001.2  224.66  5.139 No_date  6:30  18.84 n/a
  [DT= 1.67]  SUM=  10:2004.2  226.94  5.181 No_date  6:30  18.91 n/a
002:0056-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD          01:3001      78.24   1.983 No_date  6:20  15.39 .261
  [CN= 61.9: N= 3.00]
  [Tp= .44:DT= 5.00]
002:0057-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL  ->  01:3001      78.24   1.983 No_date  6:20  15.39 n/a
  [RDT= 1.67] out<-  03:3.002    78.24   1.948 No_date  6:23  15.39 n/a
  [L/S/n= 1097./9.080/.050]
  {Vmax= 4.589:Dmax= .025}
002:0058-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD          01:3002      9.19    .247 No_date  6:25  18.52 .314
  [CN= 67.8: N= 3.00]
  [Tp= .53:DT= 5.00]
002:0059-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                01:3002      9.19    .247 No_date  6:25  18.52 n/a
                        +  03:3.002    78.24   1.948 No_date  6:23  15.39 n/a
  [DT= 1.67]  SUM=  04:3002.2  87.43   2.194 No_date  6:25  15.72 n/a
002:0060-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD          01:3010      4.15    .254 No_date  6:00  15.70 .267
  [CN= 62.5: N= 3.00]
  [Tp= .11:DT= 5.00]
002:0061-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                01:3010      4.15    .254 No_date  6:00  15.70 n/a
                        +  04:3002.2  87.43   2.194 No_date  6:25  15.72 n/a
  [DT= 1.67]  SUM=  03:3010.2  91.58   2.245 No_date  6:23  15.72 n/a
002:0062-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD       01:3003      1.99    .281 No_date  6:00  37.47 .636
  [XIMP=.48:TIMP=.48]
  [LOSS= 2 :CN= 67.8]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]
002:0063-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD       04:3004      .40     .068 No_date  6:00  45.78 .777
  [XIMP=.70:TIMP=.70]
  [LOSS= 2 :CN= 64.5]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]
002:0064-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                01:3003      1.99    .281 No_date  6:00  37.47 n/a
                        +  04:3004      .40     .068 No_date  6:00  45.78 n/a
  [DT= 5.00]  SUM=  05:3004.2  2.39    .350 No_date  6:00  38.86 n/a

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                                FUT.sum
002:0065-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB STANDHYD 01:3005      2.80      .273 No_date    6:00    29.33 .498
[XIMP=.01:TIMP=.59]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]
002:0066-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD        01:3005      2.80      .273 No_date    6:00    29.33 n/a
                + 02:Minor      .89      .067 No_date    6:00    25.47 n/a
                + 05:3004.2    2.39      .350 No_date    6:00    38.86 n/a
[DT= 5.00] SUM= 04:3005.2    6.08      .690 No_date    6:00    32.51 n/a
002:0067-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD        03:3010.2    91.58     2.245 No_date    6:23    15.72 n/a
                + 04:3005.2     6.08     .690 No_date    6:00    32.51 n/a
[DT= 1.67] SUM= 01:3005.2    97.66     2.394 No_date    6:23    16.77 n/a
002:0068-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 03:3006      1.12      .207 No_date    6:00    43.83 .744
[XIMP=.01:TIMP=.86]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]
002:0069-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD        01:3005.2    97.66     2.394 No_date    6:23    16.77 n/a
                + 03:3006      1.12      .207 No_date    6:00    43.83 n/a
[DT= 1.67] SUM= 04:3005.2    98.78     2.424 No_date    6:23    17.07 n/a
002:0070-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3009      1.93      .364 No_date    6:00    47.75 .811
[XIMP=.01:TIMP=.90]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]
002:0071-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD        01:3009      1.93      .364 No_date    6:00    47.75 n/a
                + 04:3005.2    98.78     2.424 No_date    6:23    17.07 n/a
[DT= 1.67] SUM= 03:3009.2    100.71     2.517 No_date    6:00    17.66 n/a
002:0072-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD        10:2004.2    226.94     5.181 No_date    6:30    18.91 n/a
                + 03:3009.2    100.71     2.517 No_date    6:00    17.66 n/a
[DT= 1.67] SUM= 01:3009.2    327.65     7.601 No_date    6:28    18.52 n/a
002:0073-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 02:3007      2.08      .240 No_date    6:00    27.64 .469
[XIMP=.01:TIMP=.36]
[LOSS= 2 :CN= 72.4]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
002:0074-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD        01:3009.2    327.65     7.601 No_date    6:28    18.52 n/a
                + 02:3007      2.08      .240 No_date    6:00    27.64 n/a
[DT= 1.67] SUM= 03:3007.2    329.73     7.643 No_date    6:28    18.58 n/a
002:0075-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD  01:2005      2.85      .453 No_date    6:00    34.98 .594
[CN= 87.3: N= 3.00]
[Tp= .05:DT= 5.00]
002:0076-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD        01:2005      2.85      .453 No_date    6:00    34.98 n/a
                + 03:3007.2    329.73     7.643 No_date    6:28    18.58 n/a
[DT= 1.67] SUM= 02:2005.2    332.58     7.855 No_date    6:00    18.72 n/a
002:0077-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3008      1.61      .196 No_date    6:00    29.88 .507
[XIMP=.01:TIMP=.40]
[LOSS= 2 :CN= 74.3]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]

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                                FUT.sum
002:0078-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                    01:3008          1.61      .196 No_date    6:00    29.88  n/a
                                + 02:2005.2    332.58    7.855 No_date    6:00    18.72  n/a
  [DT= 1.67]  SUM= 03:3008.2    334.19    8.051 No_date    6:00    18.77  n/a
002:0079-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD              01:5001          62.50      .528 No_date    6:20     5.09  .086
  [CN= 30.1: N= 3.00]
  [Tp= .41:DT= 5.00]
002:0080-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL -> 01:5001          62.50      .528 No_date    6:20     5.09  n/a
  [RDT= 1.67] out<- 02:5.002      62.50      .486 No_date    6:28     5.09  n/a
  [L/S/n= 912./2.030/.050]
  {Vmax= 1.544:Dmax= .018}
002:0081-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD              03:5002          14.10      .191 No_date    6:05     5.97  .101
  [CN= 34.0: N= 3.00]
  [Tp= .25:DT= 5.00]
002:0082-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB NASHYD              04:5004           3.48      .355 No_date    6:00    25.53  .433
  [CN= 78.0: N= 3.00]
  [Tp= .10:DT= 5.00]
002:0083-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                    02:5.002      62.50      .486 No_date    6:28     5.09  n/a
                                + 03:5002      14.10      .191 No_date    6:05     5.97  n/a
                                + 04:5004           3.48      .355 No_date    6:00    25.53  n/a
  [DT= 1.67]  SUM= 05:5002.2    80.08      .690 No_date    6:05     6.14  n/a
002:0084-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB NASHYD              01:5003           2.65      .132 No_date    6:00    14.99  .254
  [CN= 61.0: N= 3.00]
  [Tp= .14:DT= 5.00]
002:0085-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                    01:5003           2.65      .132 No_date    6:00    14.99  n/a
                                + 05:5002.2    80.08      .690 No_date    6:05     6.14  n/a
  [DT= 1.67]  SUM= 02:5003.2    82.73      .819 No_date    6:00     6.42  n/a
002:0086-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB STANDHYD          01:SWALE           .50      .105 No_date    6:00    56.53  .960
  [XIMP=.95:TIMP=.95]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
  ** END OF RUN : 2

```

\*\*\*\*\*

RUN:COMMAND#

```

003:0001-----
  START
  [TZERO = .00 hrs on 0]
  [METOUT= 2 (1=imperial, 2=metric output)]
  [NSTORM= 1 ]
  [NRUN = 3 ]
#*****
# Project Name: [Waterdown Road] Project Number: [107016] *
# Date : 09-14-2007 *
# Modeller : [KB] *
# Company : Philips Engineering Ltd *
# License # : 3569108 *
#*****
003:0002-----

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FUT.sum

READ STORM

Filename = STORM.001

Comment = 10 Year SCS 12 hour City of Burlington (2004)

[SDT=10.00:SDUR= 12.00:PTOT= 69.69]

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003:0003-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      01:4001      5.28      .352 No_date   6:05   23.31 .335
  [CN= 65.9: N= 3.00]
  [Tp= .19:DT= 5.00]
003:0004-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL    -> 01:4001      5.28      .352 No_date   6:05   23.31 n/a
  [RDT= 1.67] out<- 02:4.003    5.28      .254 No_date   6:13   23.31 n/a
  [L/S/n= 475./1.260/.050]
  {Vmax= .561:Dmax= .136}
003:0005-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      03:4003      3.13      .145 No_date   6:10   21.14 .303
  [CN= 62.6: N= 3.00]
  [Tp= .29:DT= 5.00]
003:0006-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      04:4002      6.34      .481 No_date   6:05   29.10 .418
  [CN= 73.5: N= 3.00]
  [Tp= .23:DT= 5.00]
003:0007-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          02:4.003      5.28      .254 No_date   6:13   23.31 n/a
                + 03:4003      3.13      .145 No_date   6:10   21.14 n/a
                + 04:4002      6.34      .481 No_date   6:05   29.10 n/a
  [DT= 1.67] SUM= 05:4003.2    14.75     .846 No_date   6:08   25.34 n/a
003:0008-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL    -> 05:4003.2    14.75     .846 No_date   6:08   25.34 n/a
*  [RDT= 1.67] out<- 01:4.006    14.75     .822 No_date   6:12   25.34 n/a
  [L/S/n= 357./5.040/.050]
  {Vmax= 1.630:Dmax= .037}
003:0009-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      02:4004A      .10      .014 No_date   6:00   29.17 .419
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]
003:0010-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      03:4004B      .36      .049 No_date   6:00   29.17 .419
  [CN= 73.6: N= 3.00]
  [Tp= .05:DT= 5.00]
003:0011-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:4004C      1.13      .129 No_date   6:00   29.17 .419
  [CN= 73.6: N= 3.00]
  [Tp= .11:DT= 5.00]
#####
# NEW FELLOWSHIP CHURCH - WEST DRAINAGE TO GRINDSTONE TRIB 4 #
#####
003:0012-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD  05:4010A      .35      .074 No_date   6:00   54.14 .777
  [XIMP=.63:TIMP=.63]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.00:LGI= 30.:MNI=.013:SCI= .0]
003:0013-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      06:4010B      .21      .029 No_date   6:00   29.17 .419
  [CN= 73.6: N= 3.00]
  [Tp= .04:DT= 5.00]
003:0014-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD  07:4010C      .14      .025 No_date   6:00   43.15 .619
  [XIMP=.36:TIMP=.36]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 20.:MNI=.013:SCI= .0]
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                                FUT.sum
003:0015-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          05:4010A      .35      .074 No_date    6:00    54.14  n/a
                   + 06:4010B      .21      .029 No_date    6:00    29.17  n/a
                   + 07:4010C      .14      .025 No_date    6:00    43.15  n/a
    [DT= 5.00]  SUM= 08:WestSi      .70      .128 No_date    6:00    44.45  n/a
003:0016-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:4.006     14.75     .822 No_date    6:12    25.34  n/a
                   + 02:4004A      .10      .014 No_date    6:00    29.17  n/a
                   + 03:4004B      .36      .049 No_date    6:00    29.17  n/a
                   + 04:4004C      1.13     .129 No_date    6:00    29.17  n/a
                   + 08:WestSi      .70      .128 No_date    6:00    44.45  n/a
    [DT= 1.67]  SUM= 09:4008.1    17.04     .898 No_date    6:12    26.48  n/a
#####
# NEW FELLOWSHIP CHURCH - EAST MAJOR DRAINAGE TO GRINDSTONE TRIB 4 #
#####
003:0017-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD  01:4011A      .12      .022 No_date    6:00    43.96  .631
  [XIMP=.38:TIMP=.38]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
003:0018-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD  02:4011B      .10      .019 No_date    6:00    46.81  .672
  [XIMP=.45:TIMP=.45]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
#####
003:0019-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    03:4004D      .57      .076 No_date    6:00    29.17  .419
  [CN= 73.6: N= 3.00]
  [Tp= .06:DT= 5.00]
003:0020-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    04:4011ex     .18      .025 No_date    6:00    29.17  .419
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]
003:0021-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:4011A      .12      .022 No_date    6:00    43.96  n/a
                   + 02:4011B      .10      .019 No_date    6:00    46.81  n/a
                   + 03:4004D      .57      .076 No_date    6:00    29.17  n/a
                   + 04:4011ex     .18      .025 No_date    6:00    29.17  n/a
    [DT= 5.00]  SUM= 05:4011      .97      .141 No_date    6:00    32.82  n/a
#####
#####
003:0022-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  DIVERT HYD      -> 05:4011      .97      .141 No_date    6:00    32.82  n/a
    diverted <= 02:Minor      .84      .067 No_date    6:00    32.82  n/a
    diverted <= 03:Major      .13      .074 No_date    6:00    32.82  n/a
#####
003:0023-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL   -> 03:Major      .13      .074 No_date    6:00    32.82  n/a
* [RDT= 1.67] out<- 01:4.007     .13      .056 No_date    6:02    32.82  n/a
  [L/S/n= 250./2.400/.035]
  {Vmax= .872:Dmax= .138}
003:0024-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          09:4008.1    17.04     .898 No_date    6:12    26.48  n/a
                   + 01:4.007      .13      .056 No_date    6:02    32.82  n/a
    [DT= 1.67]  SUM= 03:4008.1    17.17     .928 No_date    6:02    26.53  n/a
003:0025-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    06:4006      3.37     .327 No_date    6:00    25.58  .367
  [CN= 69.1: N= 3.00]
  [Tp= .12:DT= 5.00]
003:0026-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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                                FUT.sum
* CALIB STANDHYD      04:4007      5.04      .797 No_date      6:00      40.84 .586
  [XIMP=.31:TIMP=.31]
  [LOSS= 2 :CN= 72.8]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
003:0027-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      05:4008      2.42      .404 No_date      6:00      41.55 .596
  [XIMP=.22:TIMP=.22]
  [LOSS= 2 :CN= 79.3]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
003:0028-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD
      03:4008.1      17.17      .928 No_date      6:02      26.53 n/a
      + 04:4007      5.04      .797 No_date      6:00      40.84 n/a
      + 05:4008      2.42      .404 No_date      6:00      41.55 n/a
      + 06:4006      3.37      .327 No_date      6:00      25.58 n/a
  [DT= 1.67] SUM= 01:4008.2      28.00      2.455 No_date      6:00      30.29 n/a
003:0029-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      03:4009      5.11      1.152 No_date      6:00      61.41 .881
  [XIMP=.01:TIMP=.90]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]
003:0030-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD
      01:4008.2      28.00      2.455 No_date      6:00      30.29 n/a
      + 03:4009      5.11      1.152 No_date      6:00      61.41 n/a
  [DT= 1.67] SUM= 05:4009.2      33.11      3.607 No_date      6:00      35.10 n/a
003:0031-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD        01:6001      2.45      .217 No_date      6:00      21.27 .305
  [CN= 62.8: N= 3.00]
  [Tp= .09:DT= 5.00]
003:0032-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD        10:6002      11.01      1.101 No_date      6:00      30.09 .432
  [CN= 74.6: N= 3.00]
  [Tp= .15:DT= 5.00]
003:0033-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      03:6004      1.46      .349 No_date      6:00      60.37 .866
  [XIMP=.01:TIMP=.81]
  [LOSS= 2 :CN= 82.4]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
003:0034-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD
      01:6001      2.45      .217 No_date      6:00      21.27 n/a
      + 10:6002      11.01      1.101 No_date      6:00      30.09 n/a
      + 03:6004      1.46      .349 No_date      6:00      60.37 n/a
  [DT= 5.00] SUM= 04:6002.2      14.92      1.667 No_date      6:00      31.60 n/a
003:0035-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD        01:1001      47.64      1.945 No_date      6:15      22.05 .316
  [CN= 64.0: N= 3.00]
  [Tp= .38:DT= 5.00]
003:0036-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL -> 01:1001      47.64      1.945 No_date      6:15      22.05 n/a
  [RDT= 1.67] out<- 10:1.002      47.64      1.859 No_date      6:22      22.05 n/a
  [L/S/n= 402./2.240/.050]
  {Vmax= 1.186:Dmax= .212}
003:0037-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD        01:1002      4.51      .284 No_date      6:05      21.33 .306
  [CN= 62.9: N= 3.00]
  [Tp= .17:DT= 5.00]
003:0038-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD
      10:1.002      47.64      1.859 No_date      6:22      22.05 n/a
      + 01:1002      4.51      .284 No_date      6:05      21.33 n/a
  [DT= 1.67] SUM= 03:1002.2      52.15      1.982 No_date      6:18      21.99 n/a

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                                FUT.sum
003:0039-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD          01:1003      2.41      .217 No_date    6:00    26.61 .382
  [CN= 70.4: N= 3.00]
  [Tp=  .14:DT= 5.00]
003:0040-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD       05:1004      1.36      .329 No_date    6:00    61.18 .878
  [XIMP=.01:TIMP=.89]
  [LOSS= 2 :CN= 74.0]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
003:0041-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              01:1003      2.41      .217 No_date    6:00    26.61 n/a
                    + 03:1002.2    52.15     1.982 No_date    6:18    21.99 n/a
                    + 05:1004      1.36      .329 No_date    6:00    61.18 n/a
  [DT= 1.67] SUM=    10:1004.2    55.92     2.107 No_date    6:18    23.14 n/a
003:0042-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              04:6002.2    14.92     1.667 No_date    6:00    31.60 n/a
                    + 10:1004.2    55.92     2.107 No_date    6:18    23.14 n/a
  [DT= 1.67] SUM=    01:1004.2    70.84     3.393 No_date    6:00    24.92 n/a
003:0043-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD          10:6003      5.59      .594 No_date    6:00    34.29 .492
  [CN= 79.0: N= 3.00]
  [Tp=  .17:DT= 5.00]
003:0044-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              01:1004.2    70.84     3.393 No_date    6:00    24.92 n/a
                    + 10:6003      5.59      .594 No_date    6:00    34.29 n/a
  [DT= 1.67] SUM=    03:6003.2    76.43     3.987 No_date    6:00    25.61 n/a
003:0045-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD          01:2001    136.38     4.996 No_date    6:25    24.66 .354
  [CN= 67.8: N= 3.00]
  [Tp=  .52:DT= 5.00]
003:0046-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL -> 01:2001    136.38     4.996 No_date    6:25    24.66 n/a
  [RDT= 1.67] out<- 10:2.002    136.38     4.418 No_date    6:40    24.66 n/a
  [L/S/n= 933./1.500/.050]
  {Vmax= 1.007:Dmax= .549}
003:0047-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD          01:2002      7.78      .244 No_date    6:25    21.08 .302
  [CN= 62.5: N= 3.00]
  [Tp=  .51:DT= 5.00]
003:0048-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              10:2.002    136.38     4.418 No_date    6:40    24.66 n/a
                    + 01:2002      7.78      .244 No_date    6:25    21.08 n/a
  [DT= 1.67] SUM=    04:2001.2    144.16     4.637 No_date    6:40    24.47 n/a
003:0049-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD       01:2003      .96       .229 No_date    6:00    58.70 .842
  [XIMP=.01:TIMP=.86]
  [LOSS= 2 :CN= 74.0]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]
003:0050-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              01:2003      .96       .229 No_date    6:00    58.70 n/a
                    + 04:2001.2    144.16     4.637 No_date    6:40    24.47 n/a
  [DT= 1.67] SUM=    10:2002.2    145.12     4.652 No_date    6:40    24.69 n/a
003:0051-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              10:2002.2    145.12     4.652 No_date    6:40    24.69 n/a
                    + 03:6003.2    76.43     3.987 No_date    6:00    25.61 n/a
  [DT= 1.67] SUM=    01:2002.2    221.55     6.865 No_date    6:30    25.01 n/a
003:0052-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD          10:7001      3.11      .280 No_date    6:00    22.21 .319
  [CN= 64.3: N= 3.00]
  [Tp=  .10:DT= 5.00]
003:0053-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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                                FUT.sum
ADD HYD                        01:2002.2    221.55    6.865 No_date    6:30    25.01    n/a
                                + 10:7001    3.11      .280 No_date    6:00    22.21    n/a
  [DT= 1.67] SUM= 03:7001.2    224.66    6.916 No_date    6:30    24.97    n/a
003:0054-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:2004      2.28      .316 No_date    6:00    33.27    .477
  [XIMP=.01:TIMP=.40]
  [LOSS= 2 :CN= 68.0]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]
003:0055-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                        01:2004      2.28      .316 No_date    6:00    33.27    n/a
                                + 03:7001.2    224.66    6.916 No_date    6:30    24.97    n/a
  [DT= 1.67] SUM= 10:2004.2    226.94    6.970 No_date    6:30    25.05    n/a
003:0056-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD 01:3001      78.24     2.680 No_date    6:20    20.68    .297
  [CN= 61.9: N= 3.00]
  [Tp= .44:DT= 5.00]
003:0057-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL -> 01:3001      78.24     2.680 No_date    6:20    20.68    n/a
  [RDT= 1.67] out<- 03:3.002    78.24     2.634 No_date    6:23    20.68    n/a
  [L/S/n= 1097./9.080/.050]
  {Vmax= 4.589:Dmax= .034}
003:0058-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD 01:3002      9.19      .331 No_date    6:25    24.65    .354
  [CN= 67.8: N= 3.00]
  [Tp= .53:DT= 5.00]
003:0059-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                        01:3002      9.19      .331 No_date    6:25    24.65    n/a
                                + 03:3.002    78.24     2.634 No_date    6:23    20.68    n/a
  [DT= 1.67] SUM= 04:3002.2    87.43     2.963 No_date    6:23    21.10    n/a
003:0060-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD 01:3010      4.15      .341 No_date    6:00    21.08    .302
  [CN= 62.5: N= 3.00]
  [Tp= .11:DT= 5.00]
003:0061-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                        01:3010      4.15      .341 No_date    6:00    21.08    n/a
                                + 04:3002.2    87.43     2.963 No_date    6:23    21.10    n/a
  [DT= 1.67] SUM= 03:3010.2    91.58     3.031 No_date    6:23    21.10    n/a
003:0062-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3003      1.99      .347 No_date    6:00    45.82    .657
  [XIMP=.48:TIMP=.48]
  [LOSS= 2 :CN= 67.8]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]
003:0063-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 04:3004      .40       .083 No_date    6:00    55.02    .790
  [XIMP=.70:TIMP=.70]
  [LOSS= 2 :CN= 64.5]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]
003:0064-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                        01:3003      1.99      .347 No_date    6:00    45.82    n/a
                                + 04:3004      .40       .083 No_date    6:00    55.02    n/a
  [DT= 5.00] SUM= 05:3004.2    2.39      .430 No_date    6:00    47.36    n/a
003:0065-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB STANDHYD 01:3005      2.80      .361 No_date    6:00    37.69    .541
  [XIMP=.01:TIMP=.59]
  [LOSS= 2 :CN= 64.5]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]
003:0066-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                        01:3005      2.80      .361 No_date    6:00    37.69    n/a
                                + 02:Minor    .84       .067 No_date    6:00    32.82    n/a

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ID	HYD	DT	SUM	AREA	QPEAK	TpeakDate	hh:mm	R.V.	R.C.	
003:0067	ADD HYD	[DT= 5.00]	SUM=	05:3004.2 04:3005.2	2.39 6.03	.430 .857	No_date No_date	6:00 6:00	47.36 40.85	n/a n/a
003:0068	ADD HYD	[DT= 1.67]	SUM=	03:3010.2 04:3005.2 01:3005.2	91.58 6.03 97.61	3.031 .857 3.214	No_date No_date No_date	6:23 6:00 6:23	21.10 40.85 22.32	n/a n/a n/a
* 003:0069	CALIB STANDHYD			03:3006	1.12	.253	No_date	6:00	54.02	.775
[XIMP=.01:TIMP=.86] [LOSS= 2 :CN= 64.5] [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0] [Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]										
003:0070	ADD HYD	[DT= 1.67]	SUM=	01:3005.2 03:3006 04:3005.2	97.61 1.12 98.73	3.214 .253 3.251	No_date No_date No_date	6:23 6:00 6:23	22.32 54.02 22.68	n/a n/a n/a
* 003:0071	CALIB STANDHYD			01:3009	1.93	.443	No_date	6:00	58.22	.835
[XIMP=.01:TIMP=.90] [LOSS= 2 :CN= 64.5] [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0] [Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]										
003:0072	ADD HYD	[DT= 1.67]	SUM=	01:3009 04:3005.2 03:3009.2	1.93 98.73 100.66	.443 3.251 3.318	No_date No_date No_date	6:00 6:23 6:22	58.22 22.68 23.36	n/a n/a n/a
003:0073	ADD HYD	[DT= 1.67]	SUM=	10:2004.2 03:3009.2 01:3009.2	226.94 100.66 327.60	6.970 3.318 10.204	No_date No_date No_date	6:30 6:22 6:28	25.05 23.36 24.53	n/a n/a n/a
* 003:0074	CALIB STANDHYD			02:3007	2.08	.315	No_date	6:00	35.76	.513
[XIMP=.01:TIMP=.36] [LOSS= 2 :CN= 72.4] [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0] [Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]										
003:0075	ADD HYD	[DT= 1.67]	SUM=	01:3009.2 02:3007 03:3007.2	327.60 2.08 329.68	10.204 .315 10.256	No_date No_date No_date	6:28 6:00 6:28	24.53 35.76 24.61	n/a n/a n/a
* 003:0076	CALIB NASHYD			01:2005	2.85	.567	No_date	6:00	44.30	.636
[CN= 87.3: N= 3.00] [Tp= .05:DT= 5.00]										
003:0077	ADD HYD	[DT= 1.67]	SUM=	01:2005 03:3007.2 02:2005.2	2.85 329.68 332.53	.567 10.256 10.339	No_date No_date No_date	6:00 6:28 6:28	44.30 24.61 24.77	n/a n/a n/a
* 003:0078	CALIB STANDHYD			01:3008	1.61	.255	No_date	6:00	38.40	.551
[XIMP=.01:TIMP=.40] [LOSS= 2 :CN= 74.3] [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0] [Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]										
003:0079	ADD HYD	[DT= 1.67]	SUM=	01:3008 02:2005.2 03:3008.2	1.61 332.53 334.14	.255 10.339 10.536	No_date No_date No_date	6:00 6:28 6:00	38.40 24.77 24.84	n/a n/a n/a
* 003:0080	CALIB NASHYD			01:5001	62.50	.736	No_date	6:20	7.07	.101
[CN= 30.1: N= 3.00] [Tp= .41:DT= 5.00]										

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                                FUT.sum
ROUTE CHANNEL  -> 01:5001      62.50      .736 No_date    6:20      7.07  n/a
[RDT= 1.67] out<- 02:5.002  62.50      .676 No_date    6:28      7.07  n/a
[L/S/n= 912./2.030/.050]
{Vmax= 1.544:Dmax= .024}
003:0081-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      03:5002      14.10      .266 No_date    6:05      8.27  .119
[CN= 34.0: N= 3.00]
[TP= .25:DT= 5.00]
003:0082-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:5004       3.48      .462 No_date    6:00     33.25  .477
[CN= 78.0: N= 3.00]
[TP= .10:DT= 5.00]
003:0083-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          02:5.002      62.50      .676 No_date    6:28      7.07  n/a
                + 03:5002      14.10      .266 No_date    6:05      8.27  n/a
                + 04:5004       3.48      .462 No_date    6:00     33.25  n/a
[DT= 1.67] SUM= 05:5002.2  80.08      .939 No_date    6:05      8.42  n/a
003:0084-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      01:5003       2.65      .179 No_date    6:00     20.17  .289
[CN= 61.0: N= 3.00]
[TP= .14:DT= 5.00]
003:0085-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:5003       2.65      .179 No_date    6:00     20.17  n/a
                + 05:5002.2  80.08      .939 No_date    6:05      8.42  n/a
[DT= 1.67] SUM= 02:5003.2  82.73     1.105 No_date    6:00      8.80  n/a
003:0086-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    01:SWALE       .50      .125 No_date    6:00     67.13  .963
[XIMP=.95:TIMP=.95]
[LOSS= 2 :CN= 73.1]
[Pervious area: IAPER= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
[Impervious area: IAIMP= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
** END OF RUN : 3

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RUN:COMMAND#

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004:0001-----
START
[TZERO = .00 hrs on 0]
[METOUT= 2 (1=imperial, 2=metric output)]
[NSTORM= 1 ]
[NRUN = 4 ]
#*****
# Project Name: [Waterdown Road] Project Number: [107016] *
# Date : 09-14-2007 *
# Modeller : [KB] *
# Company : Philips Engineering Ltd *
# License # : 3569108 *
#*****

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004:0002-----
READ STORM
Filename = STORM.001
Comment = 25 Year SCS 12 hour City of Burlington (2004)
[SDT=10.00:SDUR= 12.00:PTOT= 83.41]
004:0003-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      01:4001       5.28      .477 No_date    6:05     31.47  .377
[CN= 65.9: N= 3.00]
[TP= .19:DT= 5.00]
004:0004-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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ROUTE CHANNEL -> 01:4001          FUT.sum
[RD= 1.67] out<- 02:4.003      5.28      .477 No_date    6:05    31.47  n/a
[L/S/n= 475./1.260/.050]      5.28      .345 No_date    6:13    31.47  n/a
{Vmax= .561:Dmax= .184}
004:0005-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      03:4003      3.13      .199 No_date    6:10    28.71  .344
[CN= 62.6: N= 3.00]
[Tp= .29:DT= 5.00]
004:0006-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      04:4002      6.34      .643 No_date    6:05    38.67  .464
[CN= 73.5: N= 3.00]
[Tp= .23:DT= 5.00]
004:0007-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           02:4.003      5.28      .345 No_date    6:13    31.47  n/a
                   + 03:4003      3.13      .199 No_date    6:10    28.71  n/a
                   + 04:4002      6.34      .643 No_date    6:05    38.67  n/a
[DT= 1.67] SUM= 05:4003.2  14.75    1.139 No_date    6:08    33.98  n/a
004:0008-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* ROUTE CHANNEL -> 05:4003.2  14.75    1.139 No_date    6:08    33.98  n/a
[RD= 1.67] out<- 01:4.006  14.75    1.108 No_date    6:12    33.98  n/a
[L/S/n= 357./5.040/.050]
{Vmax= 1.630:Dmax= .049}
004:0009-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      02:4004A      .10      .018 No_date    6:00    38.76  .465
[CN= 73.6: N= 3.00]
[Tp= .03:DT= 5.00]
004:0010-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      03:4004B      .36      .065 No_date    6:00    38.76  .465
[CN= 73.6: N= 3.00]
[Tp= .05:DT= 5.00]
004:0011-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:4004C      1.13      .171 No_date    6:00    38.76  .465
[CN= 73.6: N= 3.00]
[Tp= .11:DT= 5.00]
#####
# NEW FELLOWSHIP CHURCH - WEST DRAINAGE TO GRINDSTONE TRIB 4 #
#####
004:0012-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    05:4010A      .35      .091 No_date    6:00    66.31  .795
[XIMP=.63:TIMP=.63]
[LOSS= 2 :CN= 73.6]
[Pervious area: IAPER= 2.50:SLPP=1.00:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.00:LGI= 30.:MNI=.013:SCI= .0]
004:0013-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      06:4010B      .21      .038 No_date    6:00    38.76  .465
[CN= 73.6: N= 3.00]
[Tp= .04:DT= 5.00]
004:0014-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    07:4010C      .14      .032 No_date    6:00    54.19  .650
[XIMP=.36:TIMP=.36]
[LOSS= 2 :CN= 73.6]
[Pervious area: IAPER= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 20.:MNI=.013:SCI= .0]
#####
004:0015-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           05:4010A      .35      .091 No_date    6:00    66.31  n/a
                   + 06:4010B      .21      .038 No_date    6:00    38.76  n/a
                   + 07:4010C      .14      .032 No_date    6:00    54.19  n/a
[DT= 5.00] SUM= 08:WestSi  .70      .160 No_date    6:00    55.62  n/a
004:0016-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           01:4.006      14.75    1.108 No_date    6:12    33.98  n/a
                   + 02:4004A      .10      .018 No_date    6:00    38.76  n/a
                   + 03:4004B      .36      .065 No_date    6:00    38.76  n/a

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                                FUT.sum
                                + 04:4004C    1.13    .171 No_date    6:00    38.76    n/a
                                + 08:WestSi    .70     .160 No_date    6:00    55.62    n/a
                                [DT= 1.67] SUM= 09:4008.1 17.04    1.206 No_date    6:12    35.32    n/a
#####
# NEW FELLOWSHIP CHURCH - EAST MAJOR DRAINAGE TO GRINDSTONE TRIB 4 #
#####
004:0017-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    01:4011A    .12     .027 No_date    6:00    55.09    .660
  [XIMP=.38:TIMP=.38]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
004:0018-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    02:4011B    .10     .024 No_date    6:00    58.23    .698
  [XIMP=.45:TIMP=.45]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
#####
004:0019-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      03:4004D    .57     .100 No_date    6:00    38.76    .465
  [CN= 73.6: N= 3.00]
  [Tp= .06:DT= 5.00]
004:0020-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:4011ex    .18     .033 No_date    6:00    38.76    .465
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]
004:0021-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD            01:4011A    .12     .027 No_date    6:00    55.09    n/a
                    + 02:4011B    .10     .024 No_date    6:00    58.23    n/a
                    + 03:4004D    .57     .100 No_date    6:00    38.76    n/a
                    + 04:4011ex    .18     .033 No_date    6:00    38.76    n/a
                    [DT= 5.00] SUM= 05:4011    .97     .184 No_date    6:00    42.78    n/a
#####
#####
004:0022-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  DIVERT HYD        -> 05:4011    .97     .184 No_date    6:00    42.78    n/a
                    diverted <= 02:Minor    .78     .067 No_date    6:00    42.78    n/a
                    diverted <= 03:Major    .19     .117 No_date    6:00    42.78    n/a
#####
004:0023-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL     -> 03:Major    .19     .117 No_date    6:00    42.78    n/a
* [RDT= 1.67] out<- 01:4.007    .19     .097 No_date    6:00    42.78    n/a
  [L/S/n= 250./2.400/.035]
  {Vmax= .992:Dmax= .173}
004:0024-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD            09:4008.1 17.04    1.206 No_date    6:12    35.32    n/a
                    + 01:4.007    .19     .097 No_date    6:00    42.78    n/a
                    [DT= 1.67] SUM= 03:4008.1 17.23    1.265 No_date    6:02    35.40    n/a
004:0025-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      06:4006    3.37    .440 No_date    6:00    34.32    .411
  [CN= 69.1: N= 3.00]
  [Tp= .12:DT= 5.00]
004:0026-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    04:4007    5.04    1.020 No_date    6:00    51.59    .618
  [XIMP=.31:TIMP=.31]
  [LOSS= 2 :CN= 72.8]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
004:0027-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    05:4008    2.42    .519 No_date    6:00    52.88    .634
  [XIMP=.22:TIMP=.22]
  [LOSS= 2 :CN= 79.3]

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                                FUT.sum
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
004:0028-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          03:4008.1    17.23    1.265 No_date    6:02    35.40 n/a
                + 04:4007      5.04    1.020 No_date    6:00    51.59 n/a
                + 05:4008      2.42    .519 No_date    6:00    52.88 n/a
                + 06:4006      3.37    .440 No_date    6:00    34.32 n/a
[DT= 1.67] SUM= 01:4008.2    28.06    3.242 No_date    6:00    39.68 n/a
004:0029-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 03:4009      5.11    1.410 No_date    6:00    74.98 .899
[XIMP=.01:TIMP=.90]
[LOSS= 2 :CN= 73.1]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]
004:0030-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:4008.2    28.06    3.242 No_date    6:00    39.68 n/a
                + 03:4009      5.11    1.410 No_date    6:00    74.98 n/a
[DT= 1.67] SUM= 05:4009.2    33.17    4.652 No_date    6:00    45.12 n/a
004:0031-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   01:6001      2.45    .294 No_date    6:00    28.87 .346
[CN= 62.8: N= 3.00]
[Tp= .09:DT= 5.00]
004:0032-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   10:6002     11.01    1.464 No_date    6:00    39.88 .478
[CN= 74.6: N= 3.00]
[Tp= .15:DT= 5.00]
004:0033-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 03:6004      1.46    .424 No_date    6:00    73.90 .886
[XIMP=.01:TIMP=.81]
[LOSS= 2 :CN= 82.4]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
004:0034-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:6001      2.45    .294 No_date    6:00    28.87 n/a
                + 10:6002     11.01    1.464 No_date    6:00    39.88 n/a
                + 03:6004      1.46    .424 No_date    6:00    73.90 n/a
[DT= 5.00] SUM= 04:6002.2    14.92    2.183 No_date    6:00    41.40 n/a
004:0035-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:1001     47.64    2.652 No_date    6:15    29.87 .358
[CN= 64.0: N= 3.00]
[Tp= .38:DT= 5.00]
004:0036-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL   -> 01:1001     47.64    2.652 No_date    6:15    29.87 n/a
[RDT= 1.67] out<- 10:1.002    47.64    2.533 No_date    6:22    29.87 n/a
[L/s/n= 402./2.240/.050]
{Vmax= 1.186:Dmax= .288}
004:0037-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:1002      4.51    .387 No_date    6:00    28.95 .347
[CN= 62.9: N= 3.00]
[Tp= .17:DT= 5.00]
004:0038-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          10:1.002     47.64    2.533 No_date    6:22    29.87 n/a
                + 01:1002      4.51    .387 No_date    6:00    28.95 n/a
[DT= 1.67] SUM= 03:1002.2    52.15    2.704 No_date    6:18    29.79 n/a
004:0039-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD     01:1003      2.41    .292 No_date    6:00    35.60 .427
[CN= 70.4: N= 3.00]
[Tp= .14:DT= 5.00]
004:0040-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 05:1004      1.36    .399 No_date    6:00    74.73 .896
[XIMP=.01:TIMP=.89]
[LOSS= 2 :CN= 74.0]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]

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FUT.sum

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[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
004:0041-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:1003          2.41          .292 No_date    6:00    35.60 n/a
                + 03:1002.2      52.15         2.704 No_date    6:18    29.79 n/a
                + 05:1004          1.36          .399 No_date    6:00    74.73 n/a
[DT= 1.67] SUM= 10:1004.2      55.92         2.863 No_date    6:17    31.14 n/a
004:0042-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          04:6002.2      14.92         2.183 No_date    6:00    41.40 n/a
                + 10:1004.2      55.92         2.863 No_date    6:17    31.14 n/a
[DT= 1.67] SUM= 01:1004.2      70.84         4.503 No_date    6:00    33.30 n/a
004:0043-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD     10:6003          5.59          .781 No_date    6:00    44.94 .539
[CN= 79.0: N= 3.00]
[Tp= .17:DT= 5.00]
004:0044-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:1004.2      70.84         4.503 No_date    6:00    33.30 n/a
                + 10:6003          5.59          .781 No_date    6:00    44.94 n/a
[DT= 1.67] SUM= 03:6003.2      76.43         5.284 No_date    6:00    34.15 n/a
004:0045-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD     01:2001         136.38        6.764 No_date    6:25    33.17 .398
[CN= 67.8: N= 3.00]
[Tp= .52:DT= 5.00]
004:0046-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ROUTE CHANNEL   -> 01:2001         136.38        6.764 No_date    6:25    33.17 n/a
[RDT= 1.67] out<- 10:2.002      136.38        6.026 No_date    6:40    33.17 n/a
[L/S/n= 933./1.500/.050]
{Vmax= 1.048:Dmax= .600}
004:0047-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD     01:2002          7.78          .334 No_date    6:25    28.63 .343
[CN= 62.5: N= 3.00]
[Tp= .51:DT= 5.00]
004:0048-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          10:2.002         136.38        6.026 No_date    6:40    33.17 n/a
                + 01:2002          7.78          .334 No_date    6:25    28.63 n/a
[DT= 1.67] SUM= 04:2001.2      144.16        6.327 No_date    6:38    32.93 n/a
004:0049-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 01:2003          .96           .279 No_date    6:00    72.14 .865
[XIMP=.01:TIMP=.86]
[LOSS= 2 :CN= 74.0]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]
004:0050-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:2003          .96           .279 No_date    6:00    72.14 n/a
                + 04:2001.2      144.16        6.327 No_date    6:38    32.93 n/a
[DT= 1.67] SUM= 10:2002.2      145.12        6.346 No_date    6:38    33.19 n/a
004:0051-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          10:2002.2      145.12        6.346 No_date    6:38    33.19 n/a
                + 03:6003.2      76.43         5.284 No_date    6:00    34.15 n/a
[DT= 1.67] SUM= 01:2002.2      221.55        9.366 No_date    6:30    33.52 n/a
004:0052-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD     10:7001          3.11          .379 No_date    6:00    30.08 .361
[CN= 64.3: N= 3.00]
[Tp= .10:DT= 5.00]
004:0053-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:2002.2      221.55        9.366 No_date    6:30    33.52 n/a
                + 10:7001          3.11          .379 No_date    6:00    30.08 n/a
[DT= 1.67] SUM= 03:7001.2      224.66        9.434 No_date    6:30    33.47 n/a
004:0054-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 01:2004          2.28          .420 No_date    6:00    43.67 .524
[XIMP=.01:TIMP=.40]
[LOSS= 2 :CN= 68.0]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]

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                                FUT.sum
004:0055-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                01:2004                2.28      .420 No_date    6:00    43.67  n/a
                        + 03:7001.2          224.66    9.434 No_date    6:30    33.47  n/a
  [DT= 1.67]  SUM=    10:2004.2          226.94    9.503 No_date    6:30    33.57  n/a
004:0056-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD          01:3001                78.24     3.668 No_date    6:20    28.13  .337
  [CN= 61.9: N= 3.00]
  [Tp= .44:DT= 5.00]
004:0057-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL  -> 01:3001                78.24     3.668 No_date    6:20    28.13  n/a
  [RDT= 1.67] out<- 03:3.002              78.24     3.605 No_date    6:23    28.13  n/a
  [L/S/n= 1097./9.080/.050]
  {Vmax= 4.589:Dmax= .047}
004:0058-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD          01:3002                9.19      .449 No_date    6:25    33.15  .397
  [CN= 67.8: N= 3.00]
  [Tp= .53:DT= 5.00]
004:0059-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                01:3002                9.19      .449 No_date    6:25    33.15  n/a
                        + 03:3.002              78.24     3.605 No_date    6:23    28.13  n/a
  [DT= 1.67]  SUM=    04:3002.2             87.43     4.051 No_date    6:23    28.66  n/a
004:0060-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB NASHYD          01:3010                4.15      .465 No_date    6:00    28.63  .343
  [CN= 62.5: N= 3.00]
  [Tp= .11:DT= 5.00]
004:0061-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                01:3010                4.15      .465 No_date    6:00    28.63  n/a
                        + 04:3002.2             87.43     4.051 No_date    6:23    28.66  n/a
  [DT= 1.67]  SUM=    03:3010.2             91.58     4.143 No_date    6:23    28.66  n/a
004:0062-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB STANDHYD      01:3003                1.99      .435 No_date    6:00    56.81  .681
  [XIMP=.48:TIMP=.48]
  [LOSS= 2 :CN= 67.8]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]
004:0063-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB STANDHYD      04:3004                .40       .101 No_date    6:00    66.99  .803
  [XIMP=.70:TIMP=.70]
  [LOSS= 2 :CN= 64.5]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]
004:0064-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                01:3003                1.99      .435 No_date    6:00    56.81  n/a
                        + 04:3004                .40       .101 No_date    6:00    66.99  n/a
  [DT= 5.00]  SUM=    05:3004.2                2.39     .535 No_date    6:00    58.51  n/a
004:0065-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB STANDHYD      01:3005                2.80      .535 No_date    6:00    48.87  .586
  [XIMP=.01:TIMP=.59]
  [LOSS= 2 :CN= 64.5]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]
004:0066-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                01:3005                2.80      .535 No_date    6:00    48.87  n/a
                        + 02:Minor                .78       .067 No_date    6:00    42.78  n/a
                        + 05:3004.2                2.39     .535 No_date    6:00    58.51  n/a
  [DT= 5.00]  SUM=    04:3005.2                5.97     1.138 No_date    6:00    51.94  n/a
004:0067-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                03:3010.2            91.58     4.143 No_date    6:23    28.66  n/a
                        + 04:3005.2                5.97     1.138 No_date    6:00    51.94  n/a
  [DT= 1.67]  SUM=    01:3005.2            97.55     4.358 No_date    6:23    30.08  n/a
004:0068-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB STANDHYD      03:3006                1.12      .312 No_date    6:00    67.15  .805
  [XIMP=.01:TIMP=.86]

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FUT.sum

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[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]
004:0069-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:3005.2    97.55    4.358 No_date    6:23    30.08    n/a
                + 03:3006          1.12     .312 No_date    6:00    67.15    n/a
[DT= 1.67] SUM= 04:3005.2    98.67    4.402 No_date    6:23    30.50    n/a
004:0070-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 01:3009          1.93     .543 No_date    6:00    71.63    .859
[XIMP=.01:TIMP=.90]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]
004:0071-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:3009          1.93     .543 No_date    6:00    71.63    n/a
                + 04:3005.2    98.67    4.402 No_date    6:23    30.50    n/a
[DT= 1.67] SUM= 03:3009.2   100.60    4.482 No_date    6:23    31.29    n/a
004:0072-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          10:2004.2    226.94    9.503 No_date    6:30    33.57    n/a
                + 03:3009.2   100.60    4.482 No_date    6:23    31.29    n/a
[DT= 1.67] SUM= 01:3009.2   327.54   13.883 No_date    6:28    32.87    n/a
004:0073-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 02:3007          2.08     .414 No_date    6:00    46.65    .559
[XIMP=.01:TIMP=.36]
[LOSS= 2 :CN= 72.4]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
004:0074-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:3009.2   327.54   13.883 No_date    6:28    32.87    n/a
                + 02:3007          2.08     .414 No_date    6:00    46.65    n/a
[DT= 1.67] SUM= 03:3007.2   329.62   13.949 No_date    6:28    32.96    n/a
004:0075-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD   01:2005          2.85     .714 No_date    6:00    56.53    .678
[CN= 87.3: N= 3.00]
[Ip= .05:DT= 5.00]
004:0076-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:2005          2.85     .714 No_date    6:00    56.53    n/a
                + 03:3007.2   329.62   13.949 No_date    6:28    32.96    n/a
[DT= 1.67] SUM= 02:2005.2   332.47   14.052 No_date    6:28    33.16    n/a
004:0077-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 01:3008          1.61     .334 No_date    6:00    49.74    .596
[XIMP=.01:TIMP=.40]
[LOSS= 2 :CN= 74.3]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
004:0078-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:3008          1.61     .334 No_date    6:00    49.74    n/a
                + 02:2005.2   332.47   14.052 No_date    6:28    33.16    n/a
[DT= 1.67] SUM= 03:3008.2   334.08   14.106 No_date    6:28    33.24    n/a
004:0079-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD    01:5001          62.50    1.043 No_date    6:20    10.00    .120
[CN= 30.1: N= 3.00]
[Ip= .41:DT= 5.00]
004:0080-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ROUTE CHANNEL  -> 01:5001          62.50    1.043 No_date    6:20    10.00    n/a
[RDT= 1.67] out<- 02:5.002        62.50    .959 No_date    6:28    10.00    n/a
[L/S/n= 912./2.030/.050]
{Vmax= 1.544:Dmax= .035}
004:0081-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD    03:5002          14.10    .376 No_date    6:05    11.65    .140
[CN= 34.0: N= 3.00]
[Ip= .25:DT= 5.00]
004:0082-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-

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* CALIB NASHYD      04:5004      FUT.sum
  [CN= 78.0: N= 3.00]      3.48      .605 No_date      6:00      43.69 .524
  [Tp= .10:DT= 5.00]
004:0083-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD      02:5.002      62.50      .959 No_date      6:28      10.00 n/a
      + 03:5002      14.10      .376 No_date      6:05      11.65 n/a
      + 04:5004      3.48      .605 No_date      6:00      43.69 n/a
  [DT= 1.67] SUM= 05:5002.2      80.08      1.308 No_date      6:22      11.75 n/a
004:0084-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      01:5003      2.65      .244 No_date      6:00      27.46 .329
  [CN= 61.0: N= 3.00]
  [Tp= .14:DT= 5.00]
004:0085-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD      01:5003      2.65      .244 No_date      6:00      27.46 n/a
      + 05:5002.2      80.08      1.308 No_date      6:22      11.75 n/a
  [DT= 1.67] SUM= 02:5003.2      82.73      1.518 No_date      6:05      12.25 n/a
004:0086-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    01:SWALE      .50      .149 No_date      6:00      80.64 .967
  [XIMP=.95:TIMP=.95]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
** END OF RUN : 4

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RUN:COMMAND#

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005:0001-----
  START
  [TZERO = .00 hrs on 0]
  [METOUT= 2 (1=imperial, 2=metric output)]
  [NSTORM= 1 ]
  [NRUN = 5 ]
#*****
# Project Name: [waterdown Road] Project Number: [107016] *
# Date : 09-14-2007 *
# Modeller : [KB] *
# Company : Philips Engineering Ltd *
# License # : 3569108 *
#*****
005:0002-----
  READ STORM
  Filename = STORM.001
  Comment = 50 Year SCS 12 hour City of Burlington (2004)
  [SDT=10.00:SDUR= 12.00:PTOT= 93.50]
005:0003-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD      01:4001      5.28      .576 No_date      6:05      37.91 .405
  [CN= 65.9: N= 3.00]
  [Tp= .19:DT= 5.00]
005:0004-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL -> 01:4001      5.28      .576 No_date      6:05      37.91 n/a
  [RDT= 1.67] out<- 02:4.003      5.28      .417 No_date      6:13      37.91 n/a
  [L/S/n= 475./1.260/.050]
  {Vmax= .561:Dmax= .222}
005:0005-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD      03:4003      3.13      .241 No_date      6:10      34.73 .371
  [CN= 62.6: N= 3.00]
  [Tp= .29:DT= 5.00]
005:0006-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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                                FUT.sum
CALIB NASHYD      04:4002      6.34      .769 No_date      6:05      46.11 .493
  [CN= 73.5: N= 3.00]
  [Tp= .23:DT= 5.00]
005:0007-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          02:4.003      5.28      .417 No_date      6:13      37.91 n/a
                    + 03:4003      3.13      .241 No_date      6:10      34.73 n/a
                    + 04:4002      6.34      .769 No_date      6:05      46.11 n/a
  [DT= 1.67] SUM= 05:4003.2    14.75      1.371 No_date      6:08      40.76 n/a
005:0008-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL   -> 05:4003.2    14.75      1.371 No_date      6:08      40.76 n/a
  * [RDT= 1.67] out<- 01:4.006    14.75      1.333 No_date      6:12      40.76 n/a
  [L/S/n= 357./5.040/.050]
  {Vmax= 1.630:Dmax= .059}
005:0009-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB NASHYD   02:4004A      .10        .022 No_date      6:00      46.20 .494
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]
005:0010-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB NASHYD   03:4004B      .36        .077 No_date      6:00      46.20 .494
  [CN= 73.6: N= 3.00]
  [Tp= .05:DT= 5.00]
005:0011-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB NASHYD   04:4004C      1.13       .204 No_date      6:00      46.20 .494
  [CN= 73.6: N= 3.00]
  [Tp= .11:DT= 5.00]
#####
# NEW FELLOWSHIP CHURCH - WEST DRAINAGE TO GRINDSTONE TRIB 4 #
#####
005:0012-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB STANDHYD 05:4010A      .35        .103 No_date      6:00      75.41 .806
  [XIMP=.63:TIMP=.63]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.00:LGI= 30.:MNI=.013:SCI= .0]
005:0013-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB NASHYD   06:4010B      .21        .045 No_date      6:00      46.20 .494
  [CN= 73.6: N= 3.00]
  [Tp= .04:DT= 5.00]
005:0014-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB STANDHYD 07:4010C      .14        .036 No_date      6:00      62.57 .669
  [XIMP=.36:TIMP=.36]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 20.:MNI=.013:SCI= .0]
#####
005:0015-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          05:4010A      .35        .103 No_date      6:00      75.41 n/a
                    + 06:4010B      .21        .045 No_date      6:00      46.20 n/a
                    + 07:4010C      .14        .036 No_date      6:00      62.57 n/a
  [DT= 5.00] SUM= 08:WestSi      .70        .185 No_date      6:00      64.08 n/a
005:0016-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:4.006      14.75      1.333 No_date      6:12      40.76 n/a
                    + 02:4004A      .10        .022 No_date      6:00      46.20 n/a
                    + 03:4004B      .36        .077 No_date      6:00      46.20 n/a
                    + 04:4004C      1.13       .204 No_date      6:00      46.20 n/a
                    + 08:WestSi      .70        .185 No_date      6:00      64.08 n/a
  [DT= 1.67] SUM= 09:4008.1    17.04      1.450 No_date      6:10      42.23 n/a
#####
# NEW FELLOWSHIP CHURCH - EAST MAJOR DRAINAGE TO GRINDSTONE TRIB 4 #
#####
005:0017-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB STANDHYD 01:4011A      .12        .032 No_date      6:00      63.52 .679
  [XIMP=.38:TIMP=.38]

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FUT.sum

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[LOSS= 2 :CN= 73.6]
[Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
005:0018-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 02:4011B .10 .027 No_date 6:00 66.85 .715
[XIMP=.45:TIMP=.45]
[LOSS= 2 :CN= 73.6]
[Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
#####
005:0019-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD 03:4004D .57 .119 No_date 6:00 46.20 .494
[CN= 73.6: N= 3.00]
[Tp= .06:DT= 5.00]
005:0020-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD 04:4011ex .18 .039 No_date 6:00 46.20 .494
[CN= 73.6: N= 3.00]
[Tp= .03:DT= 5.00]
005:0021-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 01:4011A .12 .032 No_date 6:00 63.52 n/a
+ 02:4011B .10 .027 No_date 6:00 66.85 n/a
+ 03:4004D .57 .119 No_date 6:00 46.20 n/a
+ 04:4011ex .18 .039 No_date 6:00 46.20 n/a
[DT= 5.00] SUM= 05:4011 .97 .216 No_date 6:00 50.47 n/a
#####
005:0022-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
DIVERT HYD -> 05:4011 .97 .216 No_date 6:00 50.47 n/a
diverted <= 02:Minor .75 .067 No_date 6:00 50.47 n/a
diverted <= 03:Major .22 .149 No_date 6:00 50.47 n/a
#####
005:0023-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL -> 03:Major .22 .149 No_date 6:00 50.47 n/a
* [RDT= 1.67] out<- 01:4.007 .22 .128 No_date 6:00 50.47 n/a
[L/S/n= 250./2.400/.035]
{Vmax= 1.058:Dmax= .195}
005:0024-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 09:4008.1 17.04 1.450 No_date 6:10 42.23 n/a
+ 01:4.007 .22 .128 No_date 6:00 50.47 n/a
[DT= 1.67] SUM= 03:4008.1 17.26 1.528 No_date 6:02 42.33 n/a
005:0025-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD 06:4006 3.37 .528 No_date 6:00 41.17 .440
[CN= 69.1: N= 3.00]
[Tp= .12:DT= 5.00]
005:0026-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 04:4007 5.04 1.191 No_date 6:00 59.77 .639
[XIMP=.31:TIMP=.31]
[LOSS= 2 :CN= 72.8]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
005:0027-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 05:4008 2.42 .607 No_date 6:00 61.48 .657
[XIMP=.22:TIMP=.22]
[LOSS= 2 :CN= 79.3]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
005:0028-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 03:4008.1 17.26 1.528 No_date 6:02 42.33 n/a
+ 04:4007 5.04 1.191 No_date 6:00 59.77 n/a
+ 05:4008 2.42 .607 No_date 6:00 61.48 n/a
+ 06:4006 3.37 .528 No_date 6:00 41.17 n/a
[DT= 1.67] SUM= 01:4008.2 28.09 3.852 No_date 6:00 46.97 n/a
005:0029-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
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ID	NHYD	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.
* 005:0030	CALIB STANDHYD 03:4009	5.11	1.600	No_date 6:00	84.98	.909
[XIMP=.01:TIMP=.90]						
[LOSS= 2 :CN= 73.1]						
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]						
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]						
005:0030	ADD HYD 01:4008.2	28.09	3.852	No_date 6:00	46.97	n/a
	+ 03:4009	5.11	1.600	No_date 6:00	84.98	n/a
	[DT= 1.67] SUM= 05:4009.2	33.20	5.451	No_date 6:00	52.82	n/a
* 005:0031	CALIB NASHYD 01:6001	2.45	.356	No_date 6:00	34.91	.373
[CN= 62.8: N= 3.00]						
[Tp= .09:DT= 5.00]						
* 005:0032	CALIB NASHYD 10:6002	11.01	1.746	No_date 6:00	47.46	.508
[CN= 74.6: N= 3.00]						
[Tp= .15:DT= 5.00]						
* 005:0033	CALIB STANDHYD 03:6004	1.46	.480	No_date 6:00	83.88	.897
[XIMP=.01:TIMP=.81]						
[LOSS= 2 :CN= 82.4]						
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]						
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]						
005:0034	ADD HYD 01:6001	2.45	.356	No_date 6:00	34.91	n/a
	+ 10:6002	11.01	1.746	No_date 6:00	47.46	n/a
	+ 03:6004	1.46	.480	No_date 6:00	83.88	n/a
	[DT= 5.00] SUM= 04:6002.2	14.92	2.582	No_date 6:00	48.97	n/a
005:0035	CALIB NASHYD 01:1001	47.64	3.216	No_date 6:15	36.07	.386
[CN= 64.0: N= 3.00]						
[Tp= .38:DT= 5.00]						
005:0036	ROUTE CHANNEL -> 01:1001	47.64	3.216	No_date 6:15	36.07	n/a
	[RDT= 1.67] out<- 10:1.002	47.64	3.071	No_date 6:22	36.07	n/a
	[L/s/n= 402./2.240/.050]					
	{Vmax= 1.186:Dmax= .350}					
005:0037	CALIB NASHYD 01:1002	4.51	.470	No_date 6:00	35.00	.374
[CN= 62.9: N= 3.00]						
[Tp= .17:DT= 5.00]						
005:0038	ADD HYD 10:1.002	47.64	3.071	No_date 6:22	36.07	n/a
	+ 01:1002	4.51	.470	No_date 6:00	35.00	n/a
	[DT= 1.67] SUM= 03:1002.2	52.15	3.279	No_date 6:18	35.98	n/a
* 005:0039	CALIB NASHYD 01:1003	2.41	.350	No_date 6:00	42.63	.456
[CN= 70.4: N= 3.00]						
[Tp= .14:DT= 5.00]						
* 005:0040	CALIB STANDHYD 05:1004	1.36	.450	No_date 6:00	84.73	.906
[XIMP=.01:TIMP=.89]						
[LOSS= 2 :CN= 74.0]						
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]						
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]						
005:0041	ADD HYD 01:1003	2.41	.350	No_date 6:00	42.63	n/a
	+ 03:1002.2	52.15	3.279	No_date 6:18	35.98	n/a
	+ 05:1004	1.36	.450	No_date 6:00	84.73	n/a
	[DT= 1.67] SUM= 10:1004.2	55.92	3.466	No_date 6:17	37.45	n/a
005:0042	ADD HYD 04:6002.2	14.92	2.582	No_date 6:00	48.97	n/a
	+ 10:1004.2	55.92	3.466	No_date 6:17	37.45	n/a

ID	DESCRIPTION	DT	SUM	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.
005:0043	CALIB NASHYD	01:1004.2	70.84	5.374	No_date	6:00	39.87	n/a
	[CN= 79.0: N= 3.00]							
	[Tp= .17:DT= 5.00]							
005:0044	ADD HYD	01:1004.2	70.84	5.374	No_date	6:00	39.87	n/a
	+ 10:6003		5.59	.925	No_date	6:00	53.10	n/a
005:0045	CALIB NASHYD	03:6003.2	76.43	6.299	No_date	6:00	40.84	n/a
	[CN= 67.8: N= 3.00]							
	[Tp= .52:DT= 5.00]							
005:0046	ROUTE CHANNEL	01:2001	136.38	8.163	No_date	6:25	39.86	n/a
	[RDT= 1.67] out<-	10:2.002	136.38	7.317	No_date	6:38	39.86	n/a
	[L/S/n= 933./1.500/.050]							
	{Vmax= 1.082:Dmax= .639}							
005:0047	CALIB NASHYD	01:2002	7.78	.406	No_date	6:25	34.63	.370
	[CN= 62.5: N= 3.00]							
	[Tp= .51:DT= 5.00]							
005:0048	ADD HYD	10:2.002	136.38	7.317	No_date	6:38	39.86	n/a
	+ 01:2002		7.78	.406	No_date	6:25	34.63	n/a
005:0049	CALIB STANDHYD	04:2001.2	144.16	7.685	No_date	6:38	39.58	n/a
*	CALIB STANDHYD	01:2003	.96	.316	No_date	6:00	82.07	.878
	[XIMP=.01:TIMP=.86]							
	[LOSS= 2 :CN= 74.0]							
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]							
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]							
005:0050	ADD HYD	01:2003	.96	.316	No_date	6:00	82.07	n/a
	+ 04:2001.2		144.16	7.685	No_date	6:38	39.58	n/a
005:0051	ADD HYD	10:2002.2	145.12	7.706	No_date	6:38	39.86	n/a
	+ 03:6003.2		76.43	6.299	No_date	6:00	40.84	n/a
005:0052	CALIB NASHYD	01:2002.2	221.55	11.374	No_date	6:30	40.20	n/a
*	CALIB NASHYD	10:7001	3.11	.458	No_date	6:00	36.31	.388
	[CN= 64.3: N= 3.00]							
	[Tp= .10:DT= 5.00]							
005:0053	ADD HYD	01:2002.2	221.55	11.374	No_date	6:30	40.20	n/a
	+ 10:7001		3.11	.458	No_date	6:00	36.31	n/a
005:0054	CALIB STANDHYD	03:7001.2	224.66	11.456	No_date	6:30	40.14	n/a
*	CALIB STANDHYD	01:2004	2.28	.500	No_date	6:00	51.68	.553
	[XIMP=.01:TIMP=.40]							
	[LOSS= 2 :CN= 68.0]							
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]							
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]							
005:0055	ADD HYD	01:2004	2.28	.500	No_date	6:00	51.68	n/a
	+ 03:7001.2		224.66	11.456	No_date	6:30	40.14	n/a
005:0056	CALIB NASHYD	10:2004.2	226.94	11.536	No_date	6:30	40.26	n/a
	[CN= 61.9: N= 3.00]							
	[Tp= .44:DT= 5.00]							
005:0057								



		FUT. sum					
ROUTE CHANNEL	-> 01:3001	78.24	4.459	No_date	6:20	34.05	n/a
[RDT= 1.67] out<-	03:3.002	78.24	4.383	No_date	6:23	34.05	n/a
[L/S/n= 1097./9.080/.050]							
{Vmax= 4.589:Dmax= .057}							
005:0058	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
CALIB NASHYD	01:3002	9.19	.542	No_date	6:25	39.84	.426
[CN= 67.8: N= 3.00]							
[Tp= .53:DT= 5.00]							
005:0059	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:3002	9.19	.542	No_date	6:25	39.84	n/a
	+ 03:3.002	78.24	4.383	No_date	6:23	34.05	n/a
[DT= 1.67] SUM=	04:3002.2	87.43	4.922	No_date	6:23	34.66	n/a
005:0060	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB NASHYD	01:3010	4.15	.563	No_date	6:00	34.63	.370
[CN= 62.5: N= 3.00]							
[Tp= .11:DT= 5.00]							
005:0061	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:3010	4.15	.563	No_date	6:00	34.63	n/a
	+ 04:3002.2	87.43	4.922	No_date	6:23	34.66	n/a
[DT= 1.67] SUM=	03:3010.2	91.58	5.032	No_date	6:23	34.66	n/a
005:0062	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB STANDHYD	01:3003	1.99	.501	No_date	6:00	65.13	.696
[XIMP=.48:TIMP=.48]							
[LOSS= 2 :CN= 67.8]							
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]							
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]							
005:0063	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB STANDHYD	04:3004	.40	.115	No_date	6:00	75.93	.812
[XIMP=.70:TIMP=.70]							
[LOSS= 2 :CN= 64.5]							
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]							
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]							
005:0064	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:3003	1.99	.501	No_date	6:00	65.13	n/a
	+ 04:3004	.40	.115	No_date	6:00	75.93	n/a
[DT= 5.00] SUM=	05:3004.2	2.39	.616	No_date	6:00	66.93	n/a
005:0065	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB STANDHYD	01:3005	2.80	.634	No_date	6:00	57.39	.614
[XIMP=.01:TIMP=.59]							
[LOSS= 2 :CN= 64.5]							
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]							
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]							
005:0066	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:3005	2.80	.634	No_date	6:00	57.39	n/a
	+ 02:Minor	.75	.067	No_date	6:00	50.47	n/a
	+ 05:3004.2	2.39	.616	No_date	6:00	66.93	n/a
[DT= 5.00] SUM=	04:3005.2	5.94	1.317	No_date	6:00	60.36	n/a
005:0067	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	03:3010.2	91.58	5.032	No_date	6:23	34.66	n/a
	+ 04:3005.2	5.94	1.317	No_date	6:00	60.36	n/a
[DT= 1.67] SUM=	01:3005.2	97.52	5.277	No_date	6:23	36.22	n/a
005:0068	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB STANDHYD	03:3006	1.12	.355	No_date	6:00	76.91	.822
[XIMP=.01:TIMP=.86]							
[LOSS= 2 :CN= 64.5]							
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]							
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]							
005:0069	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:3005.2	97.52	5.277	No_date	6:23	36.22	n/a
	+ 03:3006	1.12	.355	No_date	6:00	76.91	n/a
[DT= 1.67] SUM=	04:3005.2	98.64	5.327	No_date	6:23	36.68	n/a
005:0070	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB STANDHYD	01:3009	1.93	.617	No_date	6:00	81.54	.872

FUT.sum

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[XIMP=.01:TIMP=.90]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]
005:0071-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3009          1.93      .617 No_date   6:00   81.54  n/a
      + 04:3005.2          98.64     5.327 No_date   6:23   36.68  n/a
[DT= 1.67] SUM= 03:3009.2          100.57     5.417 No_date   6:23   37.55  n/a
005:0072-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          10:2004.2         226.94    11.536 No_date   6:30   40.26  n/a
      + 03:3009.2          100.57     5.417 No_date   6:23   37.55  n/a
[DT= 1.67] SUM= 01:3009.2          327.51    16.834 No_date   6:28   39.43  n/a
005:0073-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 02:3007           2.08      .489 No_date   6:00   54.99  .588
[XIMP=.01:TIMP=.36]
[LOSS= 2 :CN= 72.4]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
005:0074-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3009.2         327.51    16.834 No_date   6:28   39.43  n/a
      + 02:3007           2.08      .489 No_date   6:00   54.99  n/a
[DT= 1.67] SUM= 03:3007.2         329.59    16.911 No_date   6:28   39.53  n/a
005:0075-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   01:2005           2.85      .823 No_date   6:00   65.73  .703
[CN= 87.3: N= 3.00]
[Tp= .05:DT= 5.00]
005:0076-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:2005           2.85      .823 No_date   6:00   65.73  n/a
      + 03:3007.2         329.59    16.911 No_date   6:28   39.53  n/a
[DT= 1.67] SUM= 02:2005.2         332.44    17.028 No_date   6:28   39.75  n/a
005:0077-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3008           1.61      .393 No_date   6:00   58.37  .624
[XIMP=.01:TIMP=.40]
[LOSS= 2 :CN= 74.3]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
005:0078-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3008           1.61      .393 No_date   6:00   58.37  n/a
      + 02:2005.2         332.44    17.028 No_date   6:28   39.75  n/a
[DT= 1.67] SUM= 03:3008.2         334.05    17.091 No_date   6:28   39.84  n/a
005:0079-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:5001           62.50     1.299 No_date   6:20   12.42  .133
[CN= 30.1: N= 3.00]
[Tp= .41:DT= 5.00]
005:0080-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL   -> 01:5001           62.50     1.299 No_date   6:20   12.42  n/a
[RDT= 1.67] out<- 02:5.002          62.50     1.195 No_date   6:28   12.42  n/a
[L/S/n= 912./2.030/.050]
{Vmax= 1.544:Dmax= .043}
005:0081-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     03:5002          14.10     .468 No_date   6:05   14.44  .154
[CN= 34.0: N= 3.00]
[Tp= .25:DT= 5.00]
005:0082-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   04:5004           3.48      .715 No_date   6:00   51.73  .553
[CN= 78.0: N= 3.00]
[Tp= .10:DT= 5.00]
005:0083-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          02:5.002          62.50     1.195 No_date   6:28   12.42  n/a
      + 03:5002          14.10     .468 No_date   6:05   14.44  n/a
      + 04:5004           3.48      .715 No_date   6:00   51.73  n/a
[DT= 1.67] SUM= 05:5002.2          80.08     1.621 No_date   6:22   14.49  n/a
005:0084-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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* CALIB NASHYD          01:5003          FUT.sum
  [CN= 61.0: N= 3.00]          2.65          .297 No_date          6:00          33.27 .356
  [Tp= .14:DT= 5.00]
005:0085-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:5003          2.65          .297 No_date          6:00          33.27 n/a
    + 05:5002.2          80.08          1.621 No_date          6:22          14.49 n/a
  [DT= 1.67] SUM= 02:5003.2          82.73          1.858 No_date          6:05          15.09 n/a
005:0086-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      01:SWALE          .50          .168 No_date          6:00          90.60 .969
  [XIMP=.95:TIMP=.95]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: Iaper= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
** END OF RUN : 5

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RUN:COMMAND#

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006:0001-----
  START
  [TZERO = .00 hrs on          0]
  [METOUT= 2          (1=imperial, 2=metric output)]
  [NSTORM= 1 ]
  [NRUN = 6 ]
#*****
# Project Name: [waterdown Road]          Project Number: [107016]          *
# Date : 09-14-2007          *
# Modeller : [KB]          *
# Company : Philips Engineering Ltd          *
# License # : 3569108          *
#*****
006:0002-----
  READ STORM
  Filename = STORM.001
  Comment = 100 Year SCS 12 hour City of Burlington (2004)
  [SDT=10.00:SDUR= 12.00:PTOT= 103.61]
006:0003-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD      01:4001          5.28          .680 No_date          6:05          44.68 .431
  [CN= 65.9: N= 3.00]
  [Tp= .19:DT= 5.00]
006:0004-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL -> 01:4001          5.28          .680 No_date          6:05          44.68 n/a
  [RDT= 1.67] out<- 02:4.003          5.28          .492 No_date          6:13          44.68 n/a
  [L/S/n= 475./1.260/.050]
  {Vmax= .563:Dmax= .252}
006:0005-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD      03:4003          3.13          .286 No_date          6:10          41.07 .396
  [CN= 62.6: N= 3.00]
  [Tp= .29:DT= 5.00]
006:0006-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD      04:4002          6.34          .899 No_date          6:05          53.83 .520
  [CN= 73.5: N= 3.00]
  [Tp= .23:DT= 5.00]
006:0007-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          02:4.003          5.28          .492 No_date          6:13          44.68 n/a
    + 03:4003          3.13          .286 No_date          6:10          41.07 n/a
    + 04:4002          6.34          .899 No_date          6:05          53.83 n/a
  [DT= 1.67] SUM= 05:4003.2          14.75          1.613 No_date          6:08          47.85 n/a
006:0008-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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                                FUT.sum
* ROUTE CHANNEL -> 05:4003.2    14.75    1.613 No_date    6:08    47.85    n/a
  [RDT= 1.67] out<- 01:4.006    14.75    1.569 No_date    6:12    47.85    n/a
  [L/S/n= 357./5.040/.050]
  {Vmax= 1.630:Dmax= .070}
006:0009-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      02:4004A      .10      .025 No_date    6:00    53.93    .521
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]
006:0010-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      03:4004B      .36      .089 No_date    6:00    53.93    .521
  [CN= 73.6: N= 3.00]
  [Tp= .05:DT= 5.00]
006:0011-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:4004C      1.13      .238 No_date    6:00    53.94    .521
  [CN= 73.6: N= 3.00]
  [Tp= .11:DT= 5.00]
#####
# NEW FELLOWSHIP CHURCH - WEST DRAINAGE TO GRINDSTONE TRIB 4 #
#####
006:0012-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    05:4010A      .35      .116 No_date    6:00    84.63    .817
  [XIMP=.63:TIMP=.63]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAPER= 2.50:SLPP=1.00:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.00:LGI= 30.:MNI=.013:SCI= .0]
006:0013-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      06:4010B      .21      .052 No_date    6:00    53.94    .521
  [CN= 73.6: N= 3.00]
  [Tp= .04:DT= 5.00]
006:0014-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    07:4010C      .14      .041 No_date    6:00    71.14    .687
  [XIMP=.36:TIMP=.36]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAPER= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 20.:MNI=.013:SCI= .0]
#####
006:0015-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD
          + 05:4010A      .35      .116 No_date    6:00    84.63    n/a
          + 06:4010B      .21      .052 No_date    6:00    53.94    n/a
          + 07:4010C      .14      .041 No_date    6:00    71.14    n/a
  [DT= 5.00] SUM= 08:WestSi      .70      .210 No_date    6:00    72.72    n/a
006:0016-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD
          + 01:4.006      14.75    1.569 No_date    6:12    47.85    n/a
          + 02:4004A      .10      .025 No_date    6:00    53.93    n/a
          + 03:4004B      .36      .089 No_date    6:00    53.93    n/a
          + 04:4004C      1.13      .238 No_date    6:00    53.94    n/a
          + 08:WestSi      .70      .210 No_date    6:00    72.72    n/a
  [DT= 1.67] SUM= 09:4008.1    17.04    1.704 No_date    6:10    49.44    n/a
#####
# NEW FELLOWSHIP CHURCH - EAST MAJOR DRAINAGE TO GRINDSTONE TRIB 4 #
#####
006:0017-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    01:4011A      .12      .036 No_date    6:00    72.14    .696
  [XIMP=.38:TIMP=.38]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAPER= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
006:0018-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    02:4011B      .10      .031 No_date    6:00    75.64    .730
  [XIMP=.45:TIMP=.45]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAPER= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]

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FUT.sum

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006:0019-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      03:4004D      .57      .138 No_date      6:00      53.94 .521
  [CN= 73.6: N= 3.00]
  [Tp= .06:DT= 5.00]
006:0020-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:4011ex      .18      .045 No_date      6:00      53.93 .521
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]
006:0021-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD           01:4011A      .12      .036 No_date      6:00      72.14 n/a
                    + 02:4011B      .10      .031 No_date      6:00      75.64 n/a
                    + 03:4004D      .57      .138 No_date      6:00      53.94 n/a
                    + 04:4011ex      .18      .045 No_date      6:00      53.93 n/a
  [DT= 5.00] SUM=   05:4011      .97      .250 No_date      6:00      58.42 n/a
#####
#####
006:0022-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  DIVERT HYD      -> 05:4011      .97      .250 No_date      6:00      58.42 n/a
                    diverted <= 02:Minor      .73      .067 No_date      6:00      58.42 n/a
                    diverted <= 03:Major      .24      .183 No_date      6:00      58.42 n/a
#####
#####
006:0023-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL    -> 03:Major      .24      .183 No_date      6:00      58.42 n/a
* [RDT= 1.67] out<- 01:4.007      .24      .161 No_date      6:00      58.42 n/a
  [L/S/n= 250./2.400/.035]
  {Vmax= 1.121:Dmax= .216}
006:0024-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD           09:4008.1     17.04     1.704 No_date      6:10     49.44 n/a
                    + 01:4.007      .24      .161 No_date      6:00     58.42 n/a
  [DT= 1.67] SUM=   03:4008.1     17.28     1.802 No_date      6:02     49.56 n/a
006:0025-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      06:4006      3.37      .621 No_date      6:00     48.34 .467
  [CN= 69.1: N= 3.00]
  [Tp= .12:DT= 5.00]
006:0026-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   04:4007      5.04      1.366 No_date      6:00     68.16 .658
  [XIMP=.31:TIMP=.31]
  [LOSS= 2 :CN= 72.8]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
006:0027-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   05:4008      2.42      .696 No_date      6:00     70.27 .678
  [XIMP=.22:TIMP=.22]
  [LOSS= 2 :CN= 79.3]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
006:0028-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD           03:4008.1     17.28     1.802 No_date      6:02     49.56 n/a
                    + 04:4007      5.04      1.366 No_date      6:00     68.16 n/a
                    + 05:4008      2.42      .696 No_date      6:00     70.27 n/a
                    + 06:4006      3.37      .621 No_date      6:00     48.34 n/a
  [DT= 1.67] SUM=   01:4008.2     28.11     4.483 No_date      6:00     54.53 n/a
006:0029-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   03:4009      5.11      1.790 No_date      6:00     95.01 .917
  [XIMP=.01:TIMP=.90]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]
006:0030-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD           01:4008.2     28.11     4.483 No_date      6:00     54.53 n/a
                    + 03:4009      5.11      1.790 No_date      6:00     95.01 n/a
  [DT= 1.67] SUM=   05:4009.2     33.22     6.272 No_date      6:00     60.76 n/a

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                                FUT.sum
006:0031-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD          01:6001      2.45    .421 No_date    6:00    41.28 .398
  [CN= 62.8: N= 3.00]
  [Tp= .09:DT= 5.00]
006:0032-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD          10:6002     11.01    2.038 No_date    6:00    55.33 .534
  [CN= 74.6: N= 3.00]
  [Tp= .15:DT= 5.00]
006:0033-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD       03:6004      1.46    .535 No_date    6:00    93.90 .906
  [XIMP=.01:TIMP=.81]
  [LOSS= 2 :CN= 82.4]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
006:0034-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                01:6001      2.45    .421 No_date    6:00    41.28 n/a
                        + 10:6002     11.01    2.038 No_date    6:00    55.33 n/a
                        + 03:6004      1.46    .535 No_date    6:00    93.90 n/a
  [DT= 5.00] SUM= 04:6002.2  14.92    2.994 No_date    6:00    56.79 n/a
006:0035-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD          01:1001     47.64    3.811 No_date    6:15    42.59 .411
  [CN= 64.0: N= 3.00]
  [Tp= .38:DT= 5.00]
006:0036-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL -> 01:1001     47.64    3.811 No_date    6:15    42.59 n/a
  [RDT= 1.67] out<- 10:1.002    47.64    3.639 No_date    6:20    42.59 n/a
  [L/S/n= 402./2.240/.050]
  {Vmax= 1.186:Dmax= .415}
006:0037-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD          01:1002      4.51    .558 No_date    6:00    41.39 .399
  [CN= 62.9: N= 3.00]
  [Tp= .17:DT= 5.00]
006:0038-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                10:1.002    47.64    3.639 No_date    6:20    42.59 n/a
                        + 01:1002      4.51    .558 No_date    6:00    41.39 n/a
  [DT= 1.67] SUM= 03:1002.2  52.15    3.886 No_date    6:18    42.49 n/a
006:0039-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD          01:1003      2.41    .411 No_date    6:00    49.97 .482
  [CN= 70.4: N= 3.00]
  [Tp= .14:DT= 5.00]
006:0040-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD       05:1004      1.36    .501 No_date    6:00    94.76 .915
  [XIMP=.01:TIMP=.89]
  [LOSS= 2 :CN= 74.0]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
006:0041-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                01:1003      2.41    .411 No_date    6:00    49.97 n/a
                        + 03:1002.2  52.15    3.886 No_date    6:18    42.49 n/a
                        + 05:1004      1.36    .501 No_date    6:00    94.76 n/a
  [DT= 1.67] SUM= 10:1004.2  55.92    4.101 No_date    6:17    44.08 n/a
006:0042-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                04:6002.2  14.92    2.994 No_date    6:00    56.79 n/a
                        + 10:1004.2  55.92    4.101 No_date    6:17    44.08 n/a
  [DT= 1.67] SUM= 01:1004.2  70.84    6.283 No_date    6:00    46.76 n/a
006:0043-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD          10:6003      5.59    1.073 No_date    6:00    61.51 .594
  [CN= 79.0: N= 3.00]
  [Tp= .17:DT= 5.00]
006:0044-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                01:1004.2  70.84    6.283 No_date    6:00    46.76 n/a
                        + 10:6003      5.59    1.073 No_date    6:00    61.51 n/a
  [DT= 1.67] SUM= 03:6003.2  76.43    7.356 No_date    6:00    47.84 n/a

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                                FUT.sum
006:0045-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      01:2001      136.38   9.630 No_date   6:25   46.87 .452
  [CN= 67.8: N= 3.00]
  [Tp= .52:DT= 5.00]
006:0046-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL    -> 01:2001      136.38   9.630 No_date   6:25   46.87 n/a
  [RDT= 1.67] out<- 10:2.002   136.38   8.684 No_date   6:38   46.87 n/a
  [L/S/n= 933./1.500/.050]
  {Vmax= 1.121:Dmax= .681}
006:0047-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      01:2002       7.78    .481 No_date   6:25   40.97 .395
  [CN= 62.5: N= 3.00]
  [Tp= .51:DT= 5.00]
006:0048-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          10:2.002      136.38   8.684 No_date   6:38   46.87 n/a
  + 01:2002       7.78    .481 No_date   6:25   40.97 n/a
  [DT= 1.67] SUM= 04:2001.2   144.16   9.129 No_date   6:37   46.55 n/a
006:0049-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:2003       .96     .352 No_date   6:00   92.05 .888
  [XIMP=.01:TIMP=.86]
  [LOSS= 2 :CN= 74.0]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]
006:0050-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:2003       .96     .352 No_date   6:00   92.05 n/a
  + 04:2001.2    144.16   9.129 No_date   6:37   46.55 n/a
  [DT= 1.67] SUM= 10:2002.2    145.12   9.153 No_date   6:37   46.85 n/a
006:0051-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          10:2002.2    145.12   9.153 No_date   6:37   46.85 n/a
  + 03:6003.2    76.43    7.356 No_date   6:00   47.84 n/a
  [DT= 1.67] SUM= 01:2002.2    221.55  13.510 No_date   6:30   47.19 n/a
006:0052-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    10:7001       3.11    .541 No_date   6:00   42.86 .414
  [CN= 64.3: N= 3.00]
  [Tp= .10:DT= 5.00]
006:0053-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:2002.2    221.55  13.510 No_date   6:30   47.19 n/a
  + 10:7001       3.11    .541 No_date   6:00   42.86 n/a
  [DT= 1.67] SUM= 03:7001.2    224.66  13.605 No_date   6:30   47.13 n/a
006:0054-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:2004       2.28    .582 No_date   6:00   59.94 .579
  [XIMP=.01:TIMP=.40]
  [LOSS= 2 :CN= 68.0]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]
006:0055-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:2004       2.28    .582 No_date   6:00   59.94 n/a
  + 03:7001.2    224.66  13.605 No_date   6:30   47.13 n/a
  [DT= 1.67] SUM= 10:2004.2    226.94  13.697 No_date   6:30   47.26 n/a
006:0056-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      01:3001       78.24   5.296 No_date   6:20   40.30 .389
  [CN= 61.9: N= 3.00]
  [Tp= .44:DT= 5.00]
006:0057-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL    -> 01:3001       78.24   5.296 No_date   6:20   40.30 n/a
  [RDT= 1.67] out<- 03:3.002    78.24   5.207 No_date   6:23   40.30 n/a
  [L/S/n= 1097./9.080/.050]
  {Vmax= 4.589:Dmax= .068}
006:0058-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      01:3002       9.19    .639 No_date   6:25   46.84 .452
  [CN= 67.8: N= 3.00]
  [Tp= .53:DT= 5.00]
006:0059-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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		FUT. sum					
ADD HYD	01:3002	9.19	.639	No_date	6:25	46.84	n/a
	+ 03:3.002	78.24	5.207	No_date	6:23	40.30	n/a
[DT= 1.67] SUM=	04:3002.2	87.43	5.843	No_date	6:23	40.99	n/a
006:0060	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB NASHYD	01:3010	4.15	.666	No_date	6:00	40.97	.395
	[CN= 62.5: N= 3.00]						
	[Tp= .11:DT= 5.00]						
006:0061	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:3010	4.15	.666	No_date	6:00	40.97	n/a
	+ 04:3002.2	87.43	5.843	No_date	6:23	40.99	n/a
[DT= 1.67] SUM=	03:3010.2	91.58	5.972	No_date	6:23	40.99	n/a
006:0062	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB STANDHYD	01:3003	1.99	.569	No_date	6:00	73.61	.710
	[XIMP=.48:TIMP=.48]						
	[LOSS= 2 :CN= 67.8]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]						
006:0063	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB STANDHYD	04:3004	.40	.129	No_date	6:00	84.97	.820
	[XIMP=.70:TIMP=.70]						
	[LOSS= 2 :CN= 64.5]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]						
006:0064	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:3003	1.99	.569	No_date	6:00	73.61	n/a
	+ 04:3004	.40	.129	No_date	6:00	84.97	n/a
[DT= 5.00] SUM=	05:3004.2	2.39	.698	No_date	6:00	75.51	n/a
006:0065	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB STANDHYD	01:3005	2.80	.736	No_date	6:00	66.12	.638
	[XIMP=.01:TIMP=.59]						
	[LOSS= 2 :CN= 64.5]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]						
006:0066	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:3005	2.80	.736	No_date	6:00	66.12	n/a
	+ 02:Minor	.73	.067	No_date	6:00	58.42	n/a
	+ 05:3004.2	2.39	.698	No_date	6:00	75.51	n/a
[DT= 5.00] SUM=	04:3005.2	5.92	1.500	No_date	6:00	68.97	n/a
006:0067	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	03:3010.2	91.58	5.972	No_date	6:23	40.99	n/a
	+ 04:3005.2	5.92	1.500	No_date	6:00	68.97	n/a
[DT= 1.67] SUM=	01:3005.2	97.50	6.248	No_date	6:23	42.69	n/a
006:0068	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB STANDHYD	03:3006	1.12	.398	No_date	6:00	86.73	.837
	[XIMP=.01:TIMP=.86]						
	[LOSS= 2 :CN= 64.5]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]						
006:0069	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:3005.2	97.50	6.248	No_date	6:23	42.69	n/a
	+ 03:3006	1.12	.398	No_date	6:00	86.73	n/a
[DT= 1.67] SUM=	04:3005.2	98.62	6.304	No_date	6:23	43.19	n/a
006:0070	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB STANDHYD	01:3009	1.93	.690	No_date	6:00	91.50	.883
	[XIMP=.01:TIMP=.90]						
	[LOSS= 2 :CN= 64.5]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]						
006:0071	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:3009	1.93	.690	No_date	6:00	91.50	n/a
	+ 04:3005.2	98.62	6.304	No_date	6:23	43.19	n/a
[DT= 1.67] SUM=	03:3009.2	100.55	6.403	No_date	6:23	44.11	n/a
006:0072	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	



		FUT. sum							
ADD HYD		10:2004.2	226.94	13.697	No_date	6:30	47.26	n/a	
	+	03:3009.2	100.55	6.403	No_date	6:23	44.11	n/a	
[DT= 1.67]	SUM=	01:3009.2	327.49	19.965	No_date	6:28	46.29	n/a	
006:0073	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
* CALIB STANDHYD		02:3007	2.08	.566	No_date	6:00	63.54	.613	
		[XIMP=.01:TIMP=.36]							
		[LOSS= 2 :CN= 72.4]							
		[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]							
		[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]							
006:0074	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
ADD HYD		01:3009.2	327.49	19.965	No_date	6:28	46.29	n/a	
	+	02:3007	2.08	.566	No_date	6:00	63.54	n/a	
[DT= 1.67]	SUM=	03:3007.2	329.57	20.053	No_date	6:28	46.40	n/a	
006:0075	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
* CALIB NASHYD		01:2005	2.85	.932	No_date	6:00	75.07	.725	
		[CN= 87.3: N= 3.00]							
		[Tp= .05:DT= 5.00]							
006:0076	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
ADD HYD		01:2005	2.85	.932	No_date	6:00	75.07	n/a	
	+	03:3007.2	329.57	20.053	No_date	6:28	46.40	n/a	
[DT= 1.67]	SUM=	02:2005.2	332.42	20.185	No_date	6:28	46.65	n/a	
006:0077	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
* CALIB STANDHYD		01:3008	1.61	.453	No_date	6:00	67.20	.649	
		[XIMP=.01:TIMP=.40]							
		[LOSS= 2 :CN= 74.3]							
		[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]							
		[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]							
006:0078	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
ADD HYD		01:3008	1.61	.453	No_date	6:00	67.20	n/a	
	+	02:2005.2	332.42	20.185	No_date	6:28	46.65	n/a	
[DT= 1.67]	SUM=	03:3008.2	334.03	20.256	No_date	6:28	46.75	n/a	
006:0079	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
CALIB NASHYD		01:5001	62.50	1.580	No_date	6:20	15.08	.146	
		[CN= 30.1: N= 3.00]							
		[Tp= .41:DT= 5.00]							
006:0080	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
ROUTE CHANNEL	->	01:5001	62.50	1.580	No_date	6:20	15.08	n/a	
[RDT= 1.67]	out<-	02:5.002	62.50	1.453	No_date	6:28	15.08	n/a	
		[L/S/n= 912./2.030/.050]							
		{Vmax= 1.544:Dmax= .053}							
006:0081	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
CALIB NASHYD		03:5002	14.10	.568	No_date	6:05	17.49	.169	
		[CN= 34.0: N= 3.00]							
		[Tp= .25:DT= 5.00]							
006:0082	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
* CALIB NASHYD		04:5004	3.48	.828	No_date	6:00	60.01	.579	
		[CN= 78.0: N= 3.00]							
		[Tp= .10:DT= 5.00]							
006:0083	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
ADD HYD		02:5.002	62.50	1.453	No_date	6:28	15.08	n/a	
	+	03:5002	14.10	.568	No_date	6:05	17.49	n/a	
	+	04:5004	3.48	.828	No_date	6:00	60.01	n/a	
[DT= 1.67]	SUM=	05:5002.2	80.08	1.961	No_date	6:22	17.46	n/a	
006:0084	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
* CALIB NASHYD		01:5003	2.65	.353	No_date	6:00	39.42	.380	
		[CN= 61.0: N= 3.00]							
		[Tp= .14:DT= 5.00]							
006:0085	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
ADD HYD		01:5003	2.65	.353	No_date	6:00	39.42	n/a	
	+	05:5002.2	80.08	1.961	No_date	6:22	17.46	n/a	
[DT= 1.67]	SUM=	02:5003.2	82.73	2.223	No_date	6:05	18.16	n/a	
006:0086	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
* CALIB STANDHYD		01:SWALE	.50	.186	No_date	6:00	100.58	.971	

FUT.sum

[XIMP=.95:TIMP=.95]
[LOSS= 2 :CN= 73.1]
[Pervious area: IAper= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]

\*\* END OF RUN : 6

\*\*\*\*\*

RUN:COMMAND#

007:0001-----

START

[TZERO = .00 hrs on 0]
[METOUT= 2 (1=imperial, 2=metric output)]
[NSTORM= 1 ]
[NRUN = 7 ]

\*\*\*\*\*

# Project Name: [waterdown Road] Project Number: [107016] \*
# Date : 09-14-2007 \*
# Modeller : [KB] \*
# Company : Philips Engineering Ltd \*
# License # : 3569108 \*

\*\*\*\*\*

007:0002-----

READ STORM

Filename = STORM.001
Comment = City of ANYWHERE - 4 hr/25.0mm Chicago Design Storm
[SDT= 5.00:SDUR= 3.92:PTOT= 24.78]

007:0003-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

CALIB NASHYD 01:4001 5.28 .062 No\_date 2:15 3.51 .141
[CN= 65.9: N= 3.00]
[Tp= .19:DT= 5.00]

007:0004-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

ROUTE CHANNEL -> 01:4001 5.28 .062 No\_date 2:15 3.51 n/a
[RDT= 1.67] out<- 02:4.003 5.28 .047 No\_date 2:25 3.51 n/a
[L/S/n= 475./1.260/.050]
{Vmax= .561:Dmax= .024}

007:0005-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

CALIB NASHYD 03:4003 3.13 .026 No\_date 2:20 3.10 .125
[CN= 62.6: N= 3.00]
[Tp= .29:DT= 5.00]

007:0006-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

CALIB NASHYD 04:4002 6.34 .093 No\_date 2:15 4.72 .190
[CN= 73.5: N= 3.00]
[Tp= .23:DT= 5.00]

007:0007-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

ADD HYD
02:4.003 5.28 .047 No\_date 2:25 3.51 n/a
+ 03:4003 3.13 .026 No\_date 2:20 3.10 n/a
+ 04:4002 6.34 .093 No\_date 2:15 4.72 n/a
[DT= 1.67] SUM= 05:4003.2 14.75 .161 No\_date 2:20 3.94 n/a

007:0008-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

\* ROUTE CHANNEL -> 05:4003.2 14.75 .161 No\_date 2:20 3.94 n/a
[RDT= 1.67] out<- 01:4.006 14.75 .156 No\_date 2:23 3.94 n/a
[L/S/n= 357./5.040/.050]
{Vmax= 1.630:Dmax= .007}

007:0009-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

\* CALIB NASHYD 02:4004A .10 .003 No\_date 2:00 4.73 .191
[CN= 73.6: N= 3.00]
[Tp= .03:DT= 5.00]

007:0010-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

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* CALIB NASHYD      03:4004B      FUT.sum
  [CN= 73.6: N= 3.00]          .36      .011 No_date      2:00      4.73 .191
  [Tp= .05:DT= 5.00]
007:0011-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:4004C      1.13      .024 No_date      2:05      4.73 .191
  [CN= 73.6: N= 3.00]
  [Tp= .11:DT= 5.00]
#####
# NEW FELLOWSHIP CHURCH - WEST DRAINAGE TO GRINDSTONE TRIB 4 #
#####
007:0012-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   05:4010A      .35      .046 No_date      2:00      16.91 .683
  [XIMP=.63:TIMP=.63]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.00:LGI= 30.:MNI=.013:SCI= .0]
007:0013-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      06:4010B      .21      .007 No_date      2:00      4.73 .191
  [CN= 73.6: N= 3.00]
  [Tp= .04:DT= 5.00]
007:0014-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   07:4010C      .14      .012 No_date      2:00      11.54 .466
  [XIMP=.36:TIMP=.36]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 20.:MNI=.013:SCI= .0]
#####
007:0015-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              05:4010A      .35      .046 No_date      2:00      16.91 n/a
    + 06:4010B          .21      .007 No_date      2:00      4.73 n/a
    + 07:4010C          .14      .012 No_date      2:00      11.54 n/a
  [DT= 5.00] SUM= 08:WestSi .70      .065 No_date      2:00      12.18 n/a
007:0016-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              01:4.006      14.75     .156 No_date      2:23      3.94 n/a
    + 02:4004A          .10      .003 No_date      2:00      4.73 n/a
    + 03:4004B          .36      .011 No_date      2:00      4.73 n/a
    + 04:4004C          1.13     .024 No_date      2:05      4.73 n/a
    + 08:WestSi         .70      .065 No_date      2:00      12.18 n/a
  [DT= 1.67] SUM= 09:4008.1 17.04     .181 No_date      2:22      4.35 n/a
#####
# NEW FELLOWSHIP CHURCH - EAST MAJOR DRAINAGE TO GRINDSTONE TRIB 4 #
#####
007:0017-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   01:4011A      .12      .011 No_date      2:00      11.94 .482
  [XIMP=.38:TIMP=.38]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
007:0018-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   02:4011B      .10      .010 No_date      2:00      13.33 .538
  [XIMP=.45:TIMP=.45]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
#####
007:0019-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      03:4004D      .57      .015 No_date      2:00      4.73 .191
  [CN= 73.6: N= 3.00]
  [Tp= .06:DT= 5.00]
007:0020-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:4011ex     .18      .006 No_date      2:00      4.73 .191
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]

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                                FUT.sum
007:0021-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:4011A      .12      .011 No_date  2:00  11.94 n/a
                   + 02:4011B      .10      .010 No_date  2:00  13.33 n/a
                   + 03:4004D      .57      .015 No_date  2:00   4.73 n/a
                   + 04:4011ex     .18      .006 No_date  2:00   4.73 n/a
  [DT= 5.00] SUM= 05:4011      .97      .042 No_date  2:00   6.51 n/a
#####
007:0022-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  DIVERT HYD      -> 05:4011      .97      .042 No_date  2:00   6.51 n/a
    diverted <= 02:Minor      .97      .042 No_date  2:00   6.51 n/a
    diverted <= 03:Major      .00      .000 No_date  0:00   .00 n/a
#####
007:0023-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL  -> 03:Major      .00      .000 No_date  0:00   .00 n/a
  * [RDT= 2.00] out<- 01:4.007    .00      .000 No_date  0:00   .00 n/a
    [L/S/n= 250./2.400/.035]
    {Vmax= .000:Dmax= .000}
007:0024-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          09:4008.1    17.04    .181 No_date  2:22   4.35 n/a
                   + 01:4.007      .00      .000 No_date  0:00   .00 n/a
  [DT= 1.67] SUM= 03:4008.1    17.04    .181 No_date  2:22   4.35 n/a
007:0025-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB NASHYD   06:4006      3.37     .058 No_date  2:05   3.96 .160
    [CN= 69.1: N= 3.00]
    [Tp= .12:DT= 5.00]
007:0026-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB STANDHYD 04:4007      5.04     .288 No_date  2:00  10.54 .425
    [XIMP=.31:TIMP=.31]
    [LOSS= 2 :CN= 72.8]
    [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
    [Impervious area: IAimp= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
007:0027-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB STANDHYD 05:4008      2.42     .111 No_date  2:00   9.68 .391
    [XIMP=.22:TIMP=.22]
    [LOSS= 2 :CN= 79.3]
    [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
    [Impervious area: IAimp= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
007:0028-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          03:4008.1    17.04    .181 No_date  2:22   4.35 n/a
                   + 04:4007      5.04     .288 No_date  2:00  10.54 n/a
                   + 05:4008      2.42     .111 No_date  2:00   9.68 n/a
                   + 06:4006      3.37     .058 No_date  2:05   3.96 n/a
  [DT= 1.67] SUM= 01:4008.2    27.87    .561 No_date  2:00   5.89 n/a
007:0029-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB STANDHYD  03:4009      5.11     .462 No_date  2:00  17.91 .723
    [XIMP=.01:TIMP=.90]
    [LOSS= 2 :CN= 73.1]
    [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]
    [Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]
007:0030-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:4008.2    27.87    .561 No_date  2:00   5.89 n/a
                   + 03:4009      5.11     .462 No_date  2:00  17.91 n/a
  [DT= 1.67] SUM= 05:4009.2    32.98    1.023 No_date  2:00   7.75 n/a
007:0031-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB NASHYD   01:6001      2.45     .037 No_date  2:05   3.12 .126
    [CN= 62.8: N= 3.00]
    [Tp= .09:DT= 5.00]
007:0032-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB NASHYD   10:6002     11.01    .214 No_date  2:10   4.94 .199
    [CN= 74.6: N= 3.00]
    [Tp= .15:DT= 5.00]
007:0033-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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* CALIB STANDHYD      03:6004      FUT.sum
  [XIMP=.01:TIMP=.81]
  [LOSS= 2 :CN= 82.4]
  [Pervious   area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
007:0034-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:6001          2.45      .037 No_date  2:05    3.12  n/a
                + 10:6002          11.01     .214 No_date  2:10    4.94  n/a
                + 03:6004           1.46     .159 No_date  2:00   17.16  n/a
  [DT= 5.00]  SUM= 04:6002.2      14.92     .363 No_date  2:05    5.84  n/a
007:0035-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:1001          47.64     .355 No_date  2:30    3.26  .132
  [CN= 64.0: N= 3.00]
  [Tp= .38:DT= 5.00]
007:0036-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL   -> 01:1001          47.64     .355 No_date  2:30    3.26  n/a
  [RDT= 1.67] out<- 10:1.002      47.64     .344 No_date  2:35    3.26  n/a
  [L/S/n= 402./2.240/.050]
  {Vmax= 1.186:Dmax= .039}
007:0037-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:1002           4.51     .051 No_date  2:10    3.13  .126
  [CN= 62.9: N= 3.00]
  [Tp= .17:DT= 5.00]
007:0038-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          10:1.002          47.64     .344 No_date  2:35    3.26  n/a
                + 01:1002           4.51     .051 No_date  2:10    3.13  n/a
  [DT= 1.67]  SUM= 03:1002.2      52.15     .368 No_date  2:33    3.25  n/a
007:0039-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD     01:1003           2.41     .040 No_date  2:10    4.17  .168
  [CN= 70.4: N= 3.00]
  [Tp= .14:DT= 5.00]
007:0040-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD  05:1004           1.36     .159 No_date  2:00   17.75  .716
  [XIMP=.01:TIMP=.89]
  [LOSS= 2 :CN= 74.0]
  [Pervious   area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
007:0041-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:1003           2.41     .040 No_date  2:10    4.17  n/a
                + 03:1002.2      52.15     .368 No_date  2:33    3.25  n/a
                + 05:1004           1.36     .159 No_date  2:00   17.75  n/a
  [DT= 1.67]  SUM= 10:1004.2      55.92     .408 No_date  2:30    3.64  n/a
007:0042-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          04:6002.2      14.92     .363 No_date  2:05    5.84  n/a
                + 10:1004.2      55.92     .408 No_date  2:30    3.64  n/a
  [DT= 1.67]  SUM= 01:1004.2      70.84     .641 No_date  2:10    4.11  n/a
007:0043-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     10:6003           5.59     .126 No_date  2:10    5.97  .241
  [CN= 79.0: N= 3.00]
  [Tp= .17:DT= 5.00]
007:0044-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:1004.2      70.84     .641 No_date  2:10    4.11  n/a
                + 10:6003           5.59     .126 No_date  2:10    5.97  n/a
  [DT= 1.67]  SUM= 03:6003.2      76.43     .767 No_date  2:10    4.24  n/a
007:0045-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:2001          136.38     .958 No_date  2:40    3.77  .152
  [CN= 67.8: N= 3.00]
  [Tp= .52:DT= 5.00]
007:0046-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL   -> 01:2001          136.38     .958 No_date  2:40    3.77  n/a
  [RDT= 1.67] out<- 10:2.002      136.38     .848 No_date  2:57    3.77  n/a
  [L/S/n= 933./1.500/.050]
  {Vmax= .970:Dmax= .146}

```

```

                                FUT.sum
007:0047-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD          01:2002          7.78          .045 No_date    2:40          3.08 .124
  [CN= 62.5: N= 3.00]
  [Tp= .51:DT= 5.00]
007:0048-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD              10:2.002          136.38         .848 No_date    2:57          3.77 n/a
                   + 01:2002          7.78          .045 No_date    2:40          3.08 n/a
  [DT= 1.67] SUM= 04:2001.2          144.16         .888 No_date    2:57          3.73 n/a
007:0049-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD     01:2003           .96           .105 No_date    2:00          16.14 .652
  [XIMP=.01:TIMP=.86]
  [LOSS= 2 :CN= 74.0]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]
007:0050-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD              01:2003           .96           .105 No_date    2:00          16.14 n/a
                   + 04:2001.2          144.16         .888 No_date    2:57          3.73 n/a
  [DT= 1.67] SUM= 10:2002.2          145.12         .896 No_date    2:57          3.82 n/a
007:0051-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD              10:2002.2          145.12         .896 No_date    2:57          3.82 n/a
                   + 03:6003.2           76.43         .767 No_date    2:10          4.24 n/a
  [DT= 1.67] SUM= 01:2002.2          221.55         1.329 No_date    2:45          3.96 n/a
007:0052-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD          10:7001           3.11          .048 No_date    2:05          3.29 .133
  [CN= 64.3: N= 3.00]
  [Tp= .10:DT= 5.00]
007:0053-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD              01:2002.2          221.55         1.329 No_date    2:45          3.96 n/a
                   + 10:7001           3.11          .048 No_date    2:05          3.29 n/a
  [DT= 1.67] SUM= 03:7001.2          224.66         1.339 No_date    2:43          3.95 n/a
007:0054-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD     01:2004           2.28          .053 No_date    2:05          5.80 .234
  [XIMP=.01:TIMP=.40]
  [LOSS= 2 :CN= 68.0]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]
007:0055-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD              01:2004           2.28          .053 No_date    2:05          5.80 n/a
                   + 03:7001.2          224.66         1.339 No_date    2:43          3.95 n/a
  [DT= 1.67] SUM= 10:2004.2          226.94         1.353 No_date    2:43          3.97 n/a
007:0056-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD          01:3001           78.24          .488 No_date    2:35          3.01 .122
  [CN= 61.9: N= 3.00]
  [Tp= .44:DT= 5.00]
007:0057-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ROUTE CHANNEL -> 01:3001           78.24          .488 No_date    2:35          3.01 n/a
  [RDT= 1.67] out<- 03:3.002          78.24          .481 No_date    2:38          3.01 n/a
  [L/S/n= 1097./9.080/.050]
  {Vmax= 4.589:Dmax= .006}
007:0058-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD          01:3002           9.19          .064 No_date    2:40          3.77 .152
  [CN= 67.8: N= 3.00]
  [Tp= .53:DT= 5.00]
007:0059-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD              01:3002           9.19          .064 No_date    2:40          3.77 n/a
                   + 03:3.002           78.24          .481 No_date    2:38          3.01 n/a
  [DT= 1.67] SUM= 04:3002.2           87.43          .545 No_date    2:38          3.09 n/a
007:0060-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD          01:3010           4.15          .057 No_date    2:05          3.08 .124
  [CN= 62.5: N= 3.00]
  [Tp= .11:DT= 5.00]
007:0061-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD              01:3010           4.15          .057 No_date    2:05          3.08 n/a

```

ID	Area	QPEAK	TpeakDate_hh:mm	R.V.	-R.C.
FUT. sum					
007:0062	03:3010.2	91.58	.560 No_date	2:37	3.09 n/a
* CALIB STANDHYD	01:3003	1.99	.181 No_date	2:00	13.50 .545
[XIMP=.48:TIMP=.48]					
[LOSS= 2 :CN= 67.8]					
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]					
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]					
007:0063	04:3004	.40	.053 No_date	2:00	17.93 .724
* CALIB STANDHYD	04:3004	.40	.053 No_date	2:00	17.93 .724
[XIMP=.70:TIMP=.70]					
[LOSS= 2 :CN= 64.5]					
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]					
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]					
007:0064	01:3003	1.99	.181 No_date	2:00	13.50 n/a
ADD HYD	04:3004	.40	.053 No_date	2:00	17.93 n/a
[DT= 5.00] SUM=	05:3004.2	2.39	.234 No_date	2:00	14.24 n/a
007:0065	01:3005	2.80	.075 No_date	2:10	7.12 .287
CALIB STANDHYD	01:3005	2.80	.075 No_date	2:10	7.12 .287
[XIMP=.01:TIMP=.59]					
[LOSS= 2 :CN= 64.5]					
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]					
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]					
007:0066	01:3005	2.80	.075 No_date	2:10	7.12 n/a
ADD HYD	02:Minor	.97	.042 No_date	2:00	6.51 n/a
	05:3004.2	2.39	.234 No_date	2:00	14.24 n/a
[DT= 5.00] SUM=	04:3005.2	6.16	.317 No_date	2:00	9.79 n/a
007:0067	03:3010.2	91.58	.560 No_date	2:37	3.09 n/a
ADD HYD	04:3005.2	6.16	.317 No_date	2:00	9.79 n/a
[DT= 1.67] SUM=	01:3005.2	97.74	.620 No_date	2:35	3.51 n/a
007:0068	03:3006	1.12	.096 No_date	2:00	13.56 .547
* CALIB STANDHYD	03:3006	1.12	.096 No_date	2:00	13.56 .547
[XIMP=.01:TIMP=.86]					
[LOSS= 2 :CN= 64.5]					
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]					
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]					
007:0069	01:3005.2	97.74	.620 No_date	2:35	3.51 n/a
ADD HYD	03:3006	1.12	.096 No_date	2:00	13.56 n/a
[DT= 1.67] SUM=	04:3005.2	98.86	.635 No_date	2:33	3.63 n/a
007:0070	01:3009	1.93	.177 No_date	2:00	15.89 .641
* CALIB STANDHYD	01:3009	1.93	.177 No_date	2:00	15.89 .641
[XIMP=.01:TIMP=.90]					
[LOSS= 2 :CN= 64.5]					
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]					
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]					
007:0071	01:3009	1.93	.177 No_date	2:00	15.89 n/a
ADD HYD	04:3005.2	98.86	.635 No_date	2:33	3.63 n/a
[DT= 1.67] SUM=	03:3009.2	100.79	.674 No_date	2:00	3.86 n/a
007:0072	10:2004.2	226.94	1.353 No_date	2:43	3.97 n/a
ADD HYD	03:3009.2	100.79	.674 No_date	2:00	3.86 n/a
[DT= 1.67] SUM=	01:3009.2	327.73	1.994 No_date	2:38	3.94 n/a
007:0073	02:3007	2.08	.060 No_date	2:05	6.42 .259
* CALIB STANDHYD	02:3007	2.08	.060 No_date	2:05	6.42 .259
[XIMP=.01:TIMP=.36]					
[LOSS= 2 :CN= 72.4]					
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]					
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]					

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                                FUT.sum
007:0074-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:3009.2  327.73  1.994 No_date  2:38  3.94 n/a
                   + 02:3007  2.08  .060 No_date  2:05  6.42 n/a
  [DT= 1.67] SUM= 03:3007.2  329.81  2.009 No_date  2:38  3.95 n/a
007:0075-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    01:2005  2.85  .171 No_date  2:00  9.02 .364
  [CN= 87.3: N= 3.00]
  [Tp= .05:DT= 5.00]
007:0076-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:2005  2.85  .171 No_date  2:00  9.02 n/a
                   + 03:3007.2  329.81  2.009 No_date  2:38  3.95 n/a
  [DT= 1.67] SUM= 02:2005.2  332.66  2.032 No_date  2:38  4.00 n/a
007:0077-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3008  1.61  .046 No_date  2:05  7.18 .290
  [XIMP=.01:TIMP=.40]
  [LOSS= 2 :CN= 74.3]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
007:0078-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:3008  1.61  .046 No_date  2:05  7.18 n/a
                   + 02:2005.2  332.66  2.032 No_date  2:38  4.00 n/a
  [DT= 1.67] SUM= 03:3008.2  334.27  2.047 No_date  2:38  4.01 n/a
007:0079-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD    01:5001  62.50  .118 No_date  2:30  .88 .036
  [CN= 30.1: N= 3.00]
  [Tp= .41:DT= 5.00]
007:0080-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL  -> 01:5001  62.50  .118 No_date  2:30  .88 n/a
  [RDT= 1.67] out<- 02:5.002  62.50  .109 No_date  2:42  .88 n/a
  [L/S/n= 912./2.030/.050]
  {Vmax= 1.544:Dmax= .004}
007:0081-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD    03:5002  14.10  .042 No_date  2:20  1.05 .042
  [CN= 34.0: N= 3.00]
  [Tp= .25:DT= 5.00]
007:0082-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    04:5004  3.48  .094 No_date  2:05  5.71 .230
  [CN= 78.0: N= 3.00]
  [Tp= .10:DT= 5.00]
007:0083-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          02:5.002  62.50  .109 No_date  2:42  .88 n/a
                   + 03:5002  14.10  .042 No_date  2:20  1.05 n/a
                   + 04:5004  3.48  .094 No_date  2:05  5.71 n/a
  [DT= 1.67] SUM= 05:5002.2  80.08  .161 No_date  2:32  1.12 n/a
007:0084-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    01:5003  2.65  .030 No_date  2:10  2.92 .118
  [CN= 61.0: N= 3.00]
  [Tp= .14:DT= 5.00]
007:0085-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:5003  2.65  .030 No_date  2:10  2.92 n/a
                   + 05:5002.2  80.08  .161 No_date  2:32  1.12 n/a
  [DT= 1.67] SUM= 02:5003.2  82.73  .179 No_date  2:15  1.18 n/a
007:0086-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:SWALE  .50  .091 No_date  2:00  23.28 .939
  [XIMP=.95:TIMP=.95]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
007:0002-----
  FINISH
-----

```





SWM.sum

```

=====
SSSSS W W M M H H Y Y M M 000 999 999 =====
S W W W MM MM H H Y Y MM MM O O 9 9 9 9
SSSSS W W W M M M H H H H Y M M M O O ## 9 9 9 9 Ver. 4.02
S W W M M H H Y M M O O 9999 9999 July 1999
SSSSS W W M M H H Y M M 000 9 9 9 =====
9 9 9 9 # 3569108
StormWater Management Hydrologic Model 999 999 =====

```

```

*****
***** SWMHYMO-99 Ver/4.02 *****
***** A single event and continuous hydrologic simulation model *****
***** based on the principles of HYMO and its successors *****
***** OTTHYMO-83 and OTTHYMO-89. *****
***** Distributed by: J.F. Sabourin and Associates Inc. *****
***** Ottawa, Ontario: (613) 727-5199 *****
***** Gatineau, Quebec: (819) 243-6858 *****
***** E-Mail: swmhymo@jfsa.Com *****
*****

```

```

+++++++
+++++++ Licensed user: Philips Engineering Ltd ++++++
+++++++ Burlington SERIAL#:3569108 ++++++
+++++++

```

```

*****
***** ++++++ PROGRAM ARRAY DIMENSIONS ++++++ *****
***** Maximum value for ID numbers : 10 *****
***** Max. number of rainfall points: 15000 *****
***** Max. number of flow points : 15000 *****
*****

```

```

*** DESCRIPTION SUMMARY TABLE HEADERS (units depend on METOUT in START) ***
*** ----- ***
*** ID: Hydrograph IDentification numbers, (1-10). ***
*** NHYD: Hydrograph reference numbers, (6 digits or characters). ***
*** AREA: Drainage area associated with hydrograph, (ac.) or (ha.). ***
*** QPEAK: Peak flow of simulated hydrograph, (ft^3/s) or (m^3/s). ***
*** TpeakDate_hh:mm is the date and time of the peak flow. ***
*** R.V.: Runoff volume of simulated hydrograph, (in) or (mm). ***
*** R.C.: Runoff Coefficient of simulated hydrograph, (ratio). ***
*** *: see WARNING or NOTE message printed at end of run. ***
*** **: see ERROR message printed at end of run. ***
*** ----- ***

```

```

.....
*****

```

```

***** SUMMARY OUTPUT *****
*****
* DATE: 2016-07-22 TIME: 13:15:13 RUN COUNTER: 001459 *
*****
* Input filename: C:\swmhymo\TPB163~1\SWM.dat *
* Output filename: C:\swmhymo\TPB163~1\SWM.out *
* Summary filename: C:\swmhymo\TPB163~1\SWM.sum *
* User comments: *
* 1: _____ *
* 2: _____ *
* 3: _____ *

```

SWM.Sum

\*\*\*\*\*

```

#*****
# Project Name: [Waterdown Road]      Project Number: [107016]      *
# Date       : 09-14-2007              *
# Modeller   : [KB]                    *
# Company    : Philips Engineering Ltd  *
# License #  : 3569108                 *
#*****

```

RUN:COMMAND#

001:0001-----

START

```

[TZERO = .00 hrs on 0]
[METOUT= 2 (1=imperial, 2=metric output)]
[NSTORM= 1 ]
[NRUN = 1 ]

```

001:0002-----

READ STORM

```

Filename = STORM.001
Comment = 2 Year SCS 12 hour City of Burlington (2004)
[SDT=10.00:SDUR= 12.00:PTOT= 42.61]

```

001:0003-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

CALIB NASHYD      01:4001      5.28      .146 No_date      6:05      9.80 .230
[CN= 65.9: N= 3.00]
[Tp= .19:DT= 5.00]

```

001:0004-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

ROUTE CHANNEL    -> 01:4001      5.28      .146 No_date      6:05      9.80 n/a
[RDT= 1.67] out<- 02:4.003      5.28      .105 No_date      6:13      9.80 n/a
[L/S/n= 475./1.260/.050]
{Vmax= .561:Dmax= .056}

```

001:0005-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

CALIB NASHYD      03:4003      3.13      .059 No_date      6:10      8.76 .206
[CN= 62.6: N= 3.00]
[Tp= .29:DT= 5.00]

```

001:0006-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

CALIB NASHYD      04:4002      6.34      .207 No_date      6:05     12.74 .299
[CN= 73.5: N= 3.00]
[Tp= .23:DT= 5.00]

```

001:0007-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

ADD HYD           02:4.003      5.28      .105 No_date      6:13      9.80 n/a
                  + 03:4003      3.13      .059 No_date      6:10      8.76 n/a
                  + 04:4002      6.34      .207 No_date      6:05     12.74 n/a
[DT= 1.67] SUM= 05:4003.2    14.75     .357 No_date      6:10     10.84 n/a

```

001:0008-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

* ROUTE CHANNEL    -> 05:4003.2    14.75     .357 No_date      6:10     10.84 n/a
  [RDT= 1.67] out<- 01:4.006     14.75     .346 No_date      6:12     10.84 n/a
  [L/S/n= 357./5.040/.050]
  {Vmax= 1.630:Dmax= .015}

```

001:0009-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

* CALIB NASHYD      02:4004A      .10      .006 No_date      6:00     12.77 .300
[CN= 73.6: N= 3.00]
[Tp= .03:DT= 5.00]

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001:0010-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

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* CALIB NASHYD      03:4004B      .36      .022 No_date      6:00     12.77 .300
[CN= 73.6: N= 3.00]
[Tp= .05:DT= 5.00]

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001:0011-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

* CALIB NASHYD      04:4004C      1.13      .056 No_date      6:00     12.77 .300
[CN= 73.6: N= 3.00]
[Tp= .11:DT= 5.00]

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#####
# NEW FELLOWSHIP CHURCH - WEST DRAINAGE TO GRINDSTONE TRIB 4      #

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SWM.sum

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#####
001:0012-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    05:4010A      .35      .042 No_date    6:00    31.06 .729
  [XIMP=.63:TIMP=.63]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.00:LGI= 30.:MNI=.013:SCI= .0]
001:0013-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD     06:4010B      .21      .013 No_date    6:00    12.77 .300
  [CN= 73.6: N= 3.00]
  [Tp= .04:DT= 5.00]
001:0014-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    07:4010C      .14      .013 No_date    6:00    23.00 .540
  [XIMP=.36:TIMP=.36]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 20.:MNI=.013:SCI= .0]
#####
001:0015-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD           05:4010A      .35      .042 No_date    6:00    31.06 n/a
                   + 07:4010C      .14      .013 No_date    6:00    23.00 n/a
  [DT= 5.00] SUM= 08:PND3IN    .49      .055 No_date    6:00    28.76 n/a
001:0016-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE RESERVOIR -> 08:PND3IN    .49      .055 No_date    6:00    28.76 n/a
* [RDT= 1.00] out<- 07:SWM-3    .49      .007 No_date    6:31    23.84 n/a
  overflow <= 09:OVF    .00      .000 No_date    0:00     .00 n/a
  {MxStoUsed=.9308E-02, TotOvfVo1=.0000E+00, N-ovf= 0, TotDurOvf= 0.hrs}
001:0017-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD           07:SWM-3      .49      .007 No_date    6:31    23.84 n/a
                   + 09:OVF      .00      .000 No_date    0:00     .00 n/a
  [DT= 1.00] SUM= 05:PND3OU    .49      .007 No_date    6:31    23.84 n/a
001:0018-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD           05:PND3OU    .49      .007 No_date    6:31    23.84 n/a
                   + 06:4010B    .21      .013 No_date    6:00    12.77 n/a
  [DT= 1.00] SUM= 08:WestSi    .70      .016 No_date    6:00    20.52 n/a
001:0019-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD           01:4.006     14.75    .346 No_date    6:12    10.84 n/a
                   + 02:4004A     .10      .006 No_date    6:00    12.77 n/a
                   + 03:4004B     .36      .022 No_date    6:00    12.77 n/a
                   + 04:4004C     1.13    .056 No_date    6:00    12.77 n/a
                   + 08:WestSi     .70      .016 No_date    6:00    20.52 n/a
  [DT= 1.00] SUM= 09:4008.1   17.04    .381 No_date    6:11    11.42 n/a
#####
# NEW FELLOWSHIP CHURCH - EAST MAJOR DRAINAGE TO GRINDSTONE TRIB 4 #
#####
001:0020-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    01:4011A      .12      .012 No_date    6:00    23.60 .554
  [XIMP=.38:TIMP=.38]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
001:0021-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    02:4011B      .10      .010 No_date    6:00    25.69 .603
  [XIMP=.45:TIMP=.45]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
#####
001:0022-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD     03:4004D      .57      .033 No_date    6:00    12.77 .300
  [CN= 73.6: N= 3.00]
  [Tp= .06:DT= 5.00]
001:0023-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
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                                SWM.sum
* CALIB NASHYD      04:4011ex      .18      .011 No_date      6:00      12.77 .300
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]
001:0024-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:4011A      .12      .012 No_date      6:00      23.60 n/a
    + 04:4011ex      .18      .011 No_date      6:00      12.77 n/a
  [DT= 5.00] SUM= 05:PND1IN      .30      .023 No_date      6:00      17.10 n/a
001:0025-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE RESERVOIR -> 05:PND1IN      .30      .023 No_date      6:00      17.10 n/a
  [RDT= 1.00] out<- 06:SWM-1      .30      .005 No_date      6:05      17.10 n/a
    overflow <= 07:OVF      .00      .000 No_date      0:00      .00 n/a
  {MxStoUsed=.2184E-02, TotOvfVol=.0000E+00, N-ovf= 0, TotDurovf= 0.hrs}
001:0026-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          06:SWM-1      .30      .005 No_date      6:05      17.10 n/a
    + 07:OVF      .00      .000 No_date      0:00      .00 n/a
  [DT= 1.00] SUM= 08:PND1OU      .30      .005 No_date      6:05      17.10 n/a
001:0027-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE RESERVOIR -> 02:4011B      .10      .010 No_date      6:00      25.69 n/a
  [RDT= 1.00] out<- 01:SWM-2      .10      .002 No_date      6:05      25.68 n/a
    overflow <= 04:OVF      .00      .000 No_date      0:00      .00 n/a
  {MxStoUsed=.1152E-02, TotOvfVol=.0000E+00, N-ovf= 0, TotDurovf= 0.hrs}
001:0028-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:SWM-2      .10      .002 No_date      6:05      25.68 n/a
    + 04:OVF      .00      .000 No_date      0:00      .00 n/a
  [DT= 1.00] SUM= 07:PND2OU      .10      .002 No_date      6:05      25.68 n/a
001:0029-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          03:4004D      .57      .033 No_date      6:00      12.77 n/a
    + 07:PND2OU      .10      .002 No_date      6:05      25.68 n/a
    + 08:PND1OU      .30      .005 No_date      6:05      17.10 n/a
  [DT= 1.00] SUM= 05:4011      .97      .040 No_date      6:00      15.44 n/a
#####
#####
001:0030-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  DIVERT HYD      -> 05:4011      .97      .040 No_date      6:00      15.44 n/a
    diverted <= 02:Minor      .97      .040 No_date      6:00      15.44 n/a
    diverted <= 03:Major      .00      .000 No_date      0:00      .00 n/a
#####
#####
001:0031-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL   -> 03:Major      .00      .000 No_date      0:00      .00 n/a
  * [RDT= 2.00] out<- 01:4.007      .00      .000 No_date      0:00      .00 n/a
    [L/S/n= 250./2.400/.035]
    {Vmax= .000:Dmax= .000}
001:0032-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          09:4008.1     17.04     .381 No_date      6:11     11.42 n/a
    + 01:4.007      .00      .000 No_date      0:00      .00 n/a
  [DT= 1.00] SUM= 03:4008.1     17.04     .381 No_date      6:11     11.42 n/a
001:0033-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB NASHYD   06:4006      3.37      .139 No_date      6:00     10.92 .256
  [CN= 69.1: N= 3.00]
  [Tp= .12:DT= 5.00]
001:0034-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB STANDHYD 04:4007      5.04      .377 No_date      6:00     21.41 .503
  [XIMP=.31:TIMP=.31]
  [LOSS= 2 :CN= 72.8]
  [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
001:0035-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  * CALIB STANDHYD 05:4008      2.42      .195 No_date      6:00     21.02 .493
  [XIMP=.22:TIMP=.22]
  [LOSS= 2 :CN= 79.3]
  [Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
001:0036-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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		SWM. sum					
ADD HYD	03:4008.1	17.04	.381	No_date	6:11	11.42	n/a
	+ 04:4007	5.04	.377	No_date	6:00	21.41	n/a
	+ 05:4008	2.42	.195	No_date	6:00	21.02	n/a
	+ 06:4006	3.37	.139	No_date	6:00	10.92	n/a
[DT= 1.00] SUM=	01:4008.2	27.87	1.038	No_date	6:00	14.00	n/a
001:0037	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
CALIB STANDHYD	03:4009	5.11	.591	No_date	6:00	34.89	.819
[XIMP=.01:TIMP=.90]							
[LOSS= 2 :CN= 73.1]							
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]							
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]							
001:0038	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:4008.2	27.87	1.038	No_date	6:00	14.00	n/a
	+ 03:4009	5.11	.591	No_date	6:00	34.89	n/a
[DT= 1.00] SUM=	05:4009.2	32.98	1.629	No_date	6:00	17.24	n/a
001:0039	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB NASHYD	01:6001	2.45	.090	No_date	6:00	8.82	.207
[CN= 62.8: N= 3.00]							
[Tp= .09:DT= 5.00]							
001:0040	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB NASHYD	10:6002	11.01	.478	No_date	6:00	13.26	.311
[CN= 74.6: N= 3.00]							
[Tp= .15:DT= 5.00]							
001:0041	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB STANDHYD	03:6004	1.46	.199	No_date	6:00	33.97	.797
[XIMP=.01:TIMP=.81]							
[LOSS= 2 :CN= 82.4]							
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]							
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]							
001:0042	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:6001	2.45	.090	No_date	6:00	8.82	n/a
	+ 10:6002	11.01	.478	No_date	6:00	13.26	n/a
	+ 03:6004	1.46	.199	No_date	6:00	33.97	n/a
[DT= 5.00] SUM=	04:6002.2	14.92	.767	No_date	6:00	14.56	n/a
001:0043	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
CALIB NASHYD	01:1001	47.64	.796	No_date	6:15	9.19	.216
[CN= 64.0: N= 3.00]							
[Tp= .38:DT= 5.00]							
001:0044	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ROUTE CHANNEL ->	01:1001	47.64	.796	No_date	6:15	9.19	n/a
[RDT= 1.67] out<-	10:1.002	47.64	.762	No_date	6:22	9.19	n/a
[L/s/n= 402./2.240/.050]							
{Vmax= 1.186:Dmax= .087}							
001:0045	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
CALIB NASHYD	01:1002	4.51	.117	No_date	6:05	8.85	.208
[CN= 62.9: N= 3.00]							
[Tp= .17:DT= 5.00]							
001:0046	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	10:1.002	47.64	.762	No_date	6:22	9.19	n/a
	+ 01:1002	4.51	.117	No_date	6:05	8.85	n/a
[DT= 1.67] SUM=	03:1002.2	52.15	.812	No_date	6:20	9.17	n/a
001:0047	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB NASHYD	01:1003	2.41	.092	No_date	6:00	11.45	.269
[CN= 70.4: N= 3.00]							
[Tp= .14:DT= 5.00]							
001:0048	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB STANDHYD	05:1004	1.36	.189	No_date	6:00	34.68	.814
[XIMP=.01:TIMP=.89]							
[LOSS= 2 :CN= 74.0]							
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]							
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]							
001:0049	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:1003	2.41	.092	No_date	6:00	11.45	n/a

		SWM. sum							
		+ 03:1002.2	52.15	.812	No_date	6:20	9.17	n/a	
		+ 05:1004	1.36	.189	No_date	6:00	34.68	n/a	
	[DT= 1.67] SUM=	10:1004.2	55.92	.875	No_date	6:18	9.88	n/a	
001:0050	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
	ADD HYD	04:6002.2	14.92	.767	No_date	6:00	14.56	n/a	
		+ 10:1004.2	55.92	.875	No_date	6:18	9.88	n/a	
	[DT= 1.67] SUM=	01:1004.2	70.84	1.518	No_date	6:00	10.87	n/a	
001:0051	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
	CALIB NASHYD	10:6003	5.59	.265	No_date	6:00	15.58	.366	
	[CN= 79.0: N= 3.00]								
	[Tp= .17:DT= 5.00]								
001:0052	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
	ADD HYD	01:1004.2	70.84	1.518	No_date	6:00	10.87	n/a	
		+ 10:6003	5.59	.265	No_date	6:00	15.58	n/a	
	[DT= 1.67] SUM=	03:6003.2	76.43	1.783	No_date	6:00	11.21	n/a	
001:0053	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
	CALIB NASHYD	01:2001	136.38	2.081	No_date	6:25	10.47	.246	
	[CN= 67.8: N= 3.00]								
	[Tp= .52:DT= 5.00]								
001:0054	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
	ROUTE CHANNEL ->	01:2001	136.38	2.081	No_date	6:25	10.47	n/a	
	[RDT= 1.67] out<-	10:2.002	136.38	1.832	No_date	6:43	10.47	n/a	
	[L/S/n= 933./1.500/.050]								
	{Vmax= .970:Dmax= .318}								
001:0055	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
	CALIB NASHYD	01:2002	7.78	.099	No_date	6:25	8.73	.205	
	[CN= 62.5: N= 3.00]								
	[Tp= .51:DT= 5.00]								
001:0056	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
	ADD HYD	10:2.002	136.38	1.832	No_date	6:43	10.47	n/a	
		+ 01:2002	7.78	.099	No_date	6:25	8.73	n/a	
	[DT= 1.67] SUM=	04:2001.2	144.16	1.920	No_date	6:42	10.37	n/a	
001:0057	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
*	CALIB STANDHYD	01:2003	.96	.130	No_date	6:00	32.58	.765	
	[XIMP=.01:TIMP=.86]								
	[LOSS= 2 :CN= 74.0]								
	[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]								
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]								
001:0058	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
	ADD HYD	01:2003	.96	.130	No_date	6:00	32.58	n/a	
		+ 04:2001.2	144.16	1.920	No_date	6:42	10.37	n/a	
	[DT= 1.67] SUM=	10:2002.2	145.12	1.929	No_date	6:42	10.52	n/a	
001:0059	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
	ADD HYD	10:2002.2	145.12	1.929	No_date	6:42	10.52	n/a	
		+ 03:6003.2	76.43	1.783	No_date	6:00	11.21	n/a	
	[DT= 1.67] SUM=	01:2002.2	221.55	2.861	No_date	6:30	10.76	n/a	
001:0060	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
*	CALIB NASHYD	10:7001	3.11	.116	No_date	6:00	9.27	.218	
	[CN= 64.3: N= 3.00]								
	[Tp= .10:DT= 5.00]								
001:0061	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
	ADD HYD	01:2002.2	221.55	2.861	No_date	6:30	10.76	n/a	
		+ 10:7001	3.11	.116	No_date	6:00	9.27	n/a	
	[DT= 1.67] SUM=	03:7001.2	224.66	2.883	No_date	6:30	10.74	n/a	
001:0062	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
*	CALIB STANDHYD	01:2004	2.28	.136	No_date	6:00	15.06	.353	
	[XIMP=.01:TIMP=.40]								
	[LOSS= 2 :CN= 68.0]								
	[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]								
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]								
001:0063	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
	ADD HYD	01:2004	2.28	.136	No_date	6:00	15.06	n/a	
		+ 03:7001.2	224.66	2.883	No_date	6:30	10.74	n/a	

ID	Channel	ID:NHYD	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.
001:0064	CALIB NASHYD	01:3001	78.24	1.089	No_date 6:20	8.55	.201
[DT= 1.67] SUM= 10:2004.2 226.94 2.909 No_date 6:30 10.78 n/a							
001:0065	ROUTE CHANNEL	01:3001	78.24	1.089	No_date 6:20	8.55	n/a
[RDT= 1.67] out<- 03:3.002 78.24 1.069 No_date 6:25 8.55 n/a							
[L/S/n= 1097./9.080/.050]							
{Vmax= 4.589:Dmax= .014}							
001:0066	CALIB NASHYD	01:3002	9.19	.138	No_date 6:25	10.46	.245
[CN= 67.8: N= 3.00]							
[Tp= .53:DT= 5.00]							
001:0067	ADD HYD	01:3002	9.19	.138	No_date 6:25	10.46	n/a
+ 03:3.002 78.24 1.069 No_date 6:25 8.55 n/a							
[DT= 1.67] SUM= 04:3002.2 87.43 1.207 No_date 6:25 8.75 n/a							
* 001:0068	CALIB NASHYD	01:3010	4.15	.141	No_date 6:00	8.73	.205
[CN= 62.5: N= 3.00]							
[Tp= .11:DT= 5.00]							
001:0069	ADD HYD	01:3010	4.15	.141	No_date 6:00	8.73	n/a
+ 04:3002.2 87.43 1.207 No_date 6:25 8.75 n/a							
[DT= 1.67] SUM= 03:3010.2 91.58 1.236 No_date 6:25 8.75 n/a							
* 001:0070	CALIB STANDHYD	01:3003	1.99	.182	No_date 6:00	25.49	.598
[XIMP=.48:TIMP=.48]							
[LOSS= 2 :CN= 67.8]							
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]							
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]							
* 001:0071	CALIB STANDHYD	04:3004	.40	.047	No_date 6:00	32.19	.756
[XIMP=.70:TIMP=.70]							
[LOSS= 2 :CN= 64.5]							
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]							
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]							
001:0072	ADD HYD	01:3003	1.99	.182	No_date 6:00	25.49	n/a
+ 04:3004 .40 .047 No_date 6:00 32.19 n/a							
[DT= 5.00] SUM= 05:3004.2 2.39 .229 No_date 6:00 26.61 n/a							
001:0073	CALIB STANDHYD	01:3005	2.80	.155	No_date 6:00	17.70	.415
[XIMP=.01:TIMP=.59]							
[LOSS= 2 :CN= 64.5]							
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]							
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]							
001:0074	ADD HYD	01:3005	2.80	.155	No_date 6:00	17.70	n/a
+ 02:Minor .97 .040 No_date 6:00 15.44 n/a							
+ 05:3004.2 2.39 .229 No_date 6:00 26.61 n/a							
[DT= 1.00] SUM= 04:3005.2 6.16 .424 No_date 6:00 20.80 n/a							
001:0075	ADD HYD	03:3010.2	91.58	1.236	No_date 6:25	8.75	n/a
+ 04:3005.2 6.16 .424 No_date 6:00 20.80 n/a							
[DT= 1.00] SUM= 01:3005.2 97.74 1.338 No_date 6:23 9.51 n/a							
* 001:0076	CALIB STANDHYD	03:3006	1.12	.137	No_date 6:00	28.85	.677
[XIMP=.01:TIMP=.86]							
[LOSS= 2 :CN= 64.5]							
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]							
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]							



		SWM. sum						
ID	NHYD	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.		
001:0077	ADD HYD	01:3005.2	97.74	1.338	No_date	6:23	9.51 n/a	
		+ 03:3006	1.12	.137	No_date	6:00	28.85 n/a	
	[DT= 1.00] SUM=	04:3005.2	98.86	1.359	No_date	6:23	9.73 n/a	
001:0078	* CALIB STANDHYD	01:3009	1.93	.246	No_date	6:00	32.20 .756	
	[XIMP=.01:TIMP=.90]							
	[LOSS= 2 :CN= 64.5]							
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]							
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]							
001:0079	ADD HYD	01:3009	1.93	.246	No_date	6:00	32.20 n/a	
		+ 04:3005.2	98.86	1.359	No_date	6:23	9.73 n/a	
	[DT= 1.00] SUM=	03:3009.2	100.79	1.484	No_date	6:00	10.16 n/a	
001:0080	ADD HYD	10:2004.2	226.94	2.909	No_date	6:30	10.78 n/a	
		+ 03:3009.2	100.79	1.484	No_date	6:00	10.16 n/a	
	[DT= 1.00] SUM=	01:3009.2	327.73	4.273	No_date	6:29	10.59 n/a	
001:0081	* CALIB STANDHYD	02:3007	2.08	.139	No_date	6:00	16.46 .386	
	[XIMP=.01:TIMP=.36]							
	[LOSS= 2 :CN= 72.4]							
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]							
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]							
001:0082	ADD HYD	01:3009.2	327.73	4.273	No_date	6:29	10.59 n/a	
		+ 02:3007	2.08	.139	No_date	6:00	16.46 n/a	
	[DT= 1.00] SUM=	03:3007.2	329.81	4.301	No_date	6:00	10.63 n/a	
001:0083	* CALIB NASHYD	01:2005	2.85	.287	No_date	6:00	21.70 .509	
	[CN= 87.3: N= 3.00]							
	[Tp= .05:DT= 5.00]							
001:0084	ADD HYD	01:2005	2.85	.287	No_date	6:00	21.70 n/a	
		+ 03:3007.2	329.81	4.301	No_date	6:00	10.63 n/a	
	[DT= 1.00] SUM=	02:2005.2	332.66	4.588	No_date	6:00	10.72 n/a	
001:0085	* CALIB STANDHYD	01:3008	1.61	.114	No_date	6:00	18.03 .423	
	[XIMP=.01:TIMP=.40]							
	[LOSS= 2 :CN= 74.3]							
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]							
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]							
001:0086	ADD HYD	01:3008	1.61	.114	No_date	6:00	18.03 n/a	
		+ 02:2005.2	332.66	4.588	No_date	6:00	10.72 n/a	
	[DT= 1.00] SUM=	03:3008.2	334.27	4.702	No_date	6:00	10.76 n/a	
001:0087	CALIB NASHYD	01:5001	62.50	.277	No_date	6:20	2.68 .063	
	[CN= 30.1: N= 3.00]							
	[Tp= .41:DT= 5.00]							
001:0088	ROUTE CHANNEL ->	01:5001	62.50	.277	No_date	6:20	2.68 n/a	
	[RDT= 1.67] out<-	02:5.002	62.50	.254	No_date	6:30	2.68 n/a	
	[L/S/n= 912./2.030/.050]							
	{Vmax= 1.544:Dmax= .009}							
001:0089	CALIB NASHYD	03:5002	14.10	.101	No_date	6:10	3.16 .074	
	[CN= 34.0: N= 3.00]							
	[Tp= .25:DT= 5.00]							
001:0090	* CALIB NASHYD	04:5004	3.48	.208	No_date	6:00	14.99 .352	
	[CN= 78.0: N= 3.00]							
	[Tp= .10:DT= 5.00]							

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                                SWM.sum
001:0091-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                    02:5.002    62.50    .254 No_date    6:30    2.68 n/a
                                + 03:5002    14.10    .101 No_date    6:10    3.16 n/a
                                + 04:5004     3.48    .208 No_date    6:00   14.99 n/a
  [DT= 1.67]  SUM= 05:5002.2    80.08    .757 No_date   14:37    3.39 n/a
001:0092-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD              01:5003     2.65    .073 No_date    6:00    8.30 .195
  [CN= 61.0: N= 3.00]
  [Tp= .14:DT= 5.00]
001:0093-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD                    01:5003     2.65    .073 No_date    6:00    8.30 n/a
                                + 05:5002.2    80.08    .757 No_date   14:37    3.39 n/a
  [DT= 1.67]  SUM= 02:5003.2    82.73    .757 No_date   14:37    3.55 n/a
001:0094-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD           01:SWALE     .50    .075 No_date    6:00   40.61 .953
  [XIMP=.95:TIMP=.95]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
** END OF RUN : 1

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RUN:COMMAND#

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002:0001-----
  START
  [TZERO = .00 hrs on 0]
  [METOUT= 2 (1=imperial, 2=metric output)]
  [NSTORM= 1 ]
  [NRUN = 2 ]
#*****
# Project Name: [waterdown Road] Project Number: [107016] *
# Date : 09-14-2007 *
# Modeller : [KB] *
# Company : Philips Engineering Ltd *
# License # : 3569108 *
#*****
002:0002-----
  READ STORM
  Filename = STORM.001
  Comment = 5 Year SCS 12 hour City of Burlington (2004)
  [SDT=10.00:SDUR= 12.00:PTOT= 58.89]
002:0003-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD              01:4001     5.28    .263 No_date    6:05   17.46 .296
  [CN= 65.9: N= 3.00]
  [Tp= .19:DT= 5.00]
002:0004-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL -> 01:4001     5.28    .263 No_date    6:05   17.46 n/a
  [RDT= 1.67] out<- 02:4.003    5.28    .189 No_date    6:13   17.46 n/a
  [L/S/n= 475./1.260/.050]
  {Vmax= .561:Dmax= .101}
002:0005-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD              03:4003     3.13    .108 No_date    6:10   15.75 .267
  [CN= 62.6: N= 3.00]
  [Tp= .29:DT= 5.00]
002:0006-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD              04:4002     6.34    .364 No_date    6:05   22.11 .375
  [CN= 73.5: N= 3.00]
  [Tp= .23:DT= 5.00]

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SWM.sum
002:0007-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          02:4.003      5.28      .189 No_date  6:13  17.46  n/a
                + 03:4003      3.13      .108 No_date  6:10  15.75  n/a
                + 04:4002      6.34      .364 No_date  6:05  22.11  n/a
  [DT= 1.67] SUM= 05:4003.2  14.75      .634 No_date  6:10  19.10  n/a
002:0008-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL  -> 05:4003.2  14.75      .634 No_date  6:10  19.10  n/a
*  [RDT= 1.67] out<- 01:4.006  14.75      .616 No_date  6:12  19.10  n/a
  [L/S/n= 357./5.040/.050]
  {Vmax= 1.630:Dmax= .028}
002:0009-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   02:4004A      .10      .011 No_date  6:00  22.17  .376
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]
002:0010-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   03:4004B      .36      .038 No_date  6:00  22.17  .376
  [CN= 73.6: N= 3.00]
  [Tp= .05:DT= 5.00]
002:0011-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   04:4004C      1.13      .098 No_date  6:00  22.17  .376
  [CN= 73.6: N= 3.00]
  [Tp= .11:DT= 5.00]
#####
# NEW FELLOWSHIP CHURCH - WEST DRAINAGE TO GRINDSTONE TRIB 4 #
#####
002:0012-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 05:4010A      .35      .061 No_date  6:00  44.76  .760
  [XIMP=.63:TIMP=.63]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.00:LGI= 30.:MNI=.013:SCI= .0]
002:0013-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   06:4010B      .21      .022 No_date  6:00  22.17  .376
  [CN= 73.6: N= 3.00]
  [Tp= .04:DT= 5.00]
002:0014-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 07:4010C      .14      .020 No_date  6:00  34.81  .591
  [XIMP=.36:TIMP=.36]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 20.:MNI=.013:SCI= .0]
#####
002:0015-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          05:4010A      .35      .061 No_date  6:00  44.76  n/a
                + 07:4010C      .14      .020 No_date  6:00  34.81  n/a
  [DT= 5.00] SUM= 08:PND3IN      .49      .081 No_date  6:00  41.92  n/a
002:0016-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE RESERVOIR -> 08:PND3IN      .49      .081 No_date  6:00  41.92  n/a
*  [RDT= 1.00] out<- 07:SWM-3      .49      .018 No_date  6:05  36.99  n/a
  overflow <= 09:OVF      .00      .000 No_date  0:00      .00  n/a
  {MxStoUsed=.1260E-01, TotovfVol=.0000E+00, N-ovf= 0, TotDurOvf= 0.hrs}
002:0017-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          07:SWM-3      .49      .018 No_date  6:05  36.99  n/a
                + 09:OVF      .00      .000 No_date  0:00      .00  n/a
  [DT= 1.00] SUM= 05:PND3OU      .49      .018 No_date  6:05  36.99  n/a
002:0018-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          05:PND3OU      .49      .018 No_date  6:05  36.99  n/a
                + 06:4010B      .21      .022 No_date  6:00  22.17  n/a
  [DT= 1.00] SUM= 08:WestSi      .70      .037 No_date  6:00  32.54  n/a
002:0019-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:4.006      14.75      .616 No_date  6:12  19.10  n/a
                + 02:4004A      .10      .011 No_date  6:00  22.17  n/a
                + 03:4004B      .36      .038 No_date  6:00  22.17  n/a

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                                SWM.sum
                                + 04:4004C      1.13      .098 No_date      6:00      22.17 n/a
                                + 08:WestSi      .70        .037 No_date      6:00      32.54 n/a
                                [DT= 1.00] SUM= 09:4008.1 17.04      .681 No_date      6:11      19.94 n/a
#####
# NEW FELLOWSHIP CHURCH - EAST MAJOR DRAINAGE TO GRINDSTONE TRIB 4 #
#####
002:0020-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      01:4011A      .12        .018 No_date      6:00      35.55 .604
  [XIMP=.38:TIMP=.38]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
002:0021-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      02:4011B      .10        .015 No_date      6:00      38.13 .647
  [XIMP=.45:TIMP=.45]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
#####
002:0022-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD        03:4004D      .57        .058 No_date      6:00      22.17 .376
  [CN= 73.6: N= 3.00]
  [Tp= .06:DT= 5.00]
002:0023-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD        04:4011ex     .18        .019 No_date      6:00      22.17 .376
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]
002:0024-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                01:4011A      .12        .018 No_date      6:00      35.55 n/a
                                + 04:4011ex     .18        .019 No_date      6:00      22.17 n/a
                                [DT= 5.00] SUM= 05:PND1IN .30        .037 No_date      6:00      27.52 n/a
002:0025-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE RESERVOIR -> 05:PND1IN .30        .037 No_date      6:00      27.52 n/a
  [RDT= 1.00] out<- 06:SWM-1 .30        .006 No_date      6:05      27.52 n/a
  overflow <= 07:OVF .00        .000 No_date      0:00      .00 n/a
  {MxStoUsed=.3637E-02, TotovfVol=.0000E+00, N-ovf= 0, TotDurovf= 0.hrs}
002:0026-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                06:SWM-1      .30        .006 No_date      6:05      27.52 n/a
                                + 07:OVF      .00        .000 No_date      0:00      .00 n/a
                                [DT= 1.00] SUM= 08:PND1OU .30        .006 No_date      6:05      27.52 n/a
002:0027-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE RESERVOIR -> 02:4011B .10        .015 No_date      6:00      38.13 n/a
  [RDT= 1.00] out<- 01:SWM-2 .10        .003 No_date      6:05      38.12 n/a
  overflow <= 04:OVF .00        .000 No_date      0:00      .00 n/a
  {MxStoUsed=.1737E-02, TotovfVol=.0000E+00, N-ovf= 0, TotDurovf= 0.hrs}
002:0028-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                01:SWM-2      .10        .003 No_date      6:05      38.12 n/a
                                + 04:OVF      .00        .000 No_date      0:00      .00 n/a
                                [DT= 1.00] SUM= 07:PND2OU .10        .003 No_date      6:05      38.12 n/a
002:0029-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD                03:4004D      .57        .058 No_date      6:00      22.17 n/a
                                + 07:PND2OU .10        .003 No_date      6:05      38.12 n/a
                                + 08:PND1OU .30        .006 No_date      6:05      27.52 n/a
                                [DT= 1.00] SUM= 05:4011 .97        .066 No_date      6:00      25.47 n/a
#####
#####
002:0030-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
DIVERT HYD -> 05:4011 .97        .066 No_date      6:00      25.47 n/a
  diverted <= 02:Minor .97        .066 No_date      6:00      25.47 n/a
  diverted <= 03:Major .00        .000 No_date      0:00      .00 n/a
#####
002:0031-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL -> 03:Major .00        .000 No_date      0:00      .00 n/a

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* [RDT= 2.00] out<- 01:4.007
  [L/S/n= 250./2.400/.035]
  {Vmax= .000:Dmax= .000}
002:0032-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          09:4008.1    17.04    .681 No_date    6:11    19.94    n/a
                + 01:4.007      .00     .000 No_date    0:00     .00     n/a
  [DT= 1.00]  SUM= 03:4008.1    17.04    .681 No_date    6:11    19.94    n/a
002:0033-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    06:4006      3.37     .246 No_date    6:00    19.27    .327
  [CN= 69.1: N= 3.00]
  [Tp= .12:DT= 5.00]
002:0034-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 04:4007      5.04     .631 No_date    6:00    32.77    .556
  [XIMP=.31:TIMP=.31]
  [LOSS= 2 :CN= 72.8]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
002:0035-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 05:4008      2.42     .317 No_date    6:00    33.02    .561
  [XIMP=.22:TIMP=.22]
  [LOSS= 2 :CN= 79.3]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
002:0036-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          03:4008.1    17.04    .681 No_date    6:11    19.94    n/a
                + 04:4007      5.04     .631 No_date    6:00    32.77    n/a
                + 05:4008      2.42     .317 No_date    6:00    33.02    n/a
                + 06:4006      3.37     .246 No_date    6:00    19.27    n/a
  [DT= 1.00]  SUM= 01:4008.2    27.87    1.787 No_date    6:00    23.31    n/a
002:0037-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 03:4009      5.11     .950 No_date    6:00    50.79    .862
  [XIMP=.01:TIMP=.90]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]
002:0038-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:4008.2    27.87    1.787 No_date    6:00    23.31    n/a
                + 03:4009      5.11     .950 No_date    6:00    50.79    n/a
  [DT= 1.00]  SUM= 05:4009.2    32.98    2.737 No_date    6:00    27.57    n/a
002:0039-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    01:6001      2.45     .161 No_date    6:00    15.85    .269
  [CN= 62.8: N= 3.00]
  [Tp= .09:DT= 5.00]
002:0040-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    10:6002     11.01     .835 No_date    6:00    22.92    .389
  [CN= 74.6: N= 3.00]
  [Tp= .15:DT= 5.00]
002:0041-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 03:6004      1.46     .290 No_date    6:00    49.78    .845
  [XIMP=.01:TIMP=.81]
  [LOSS= 2 :CN= 82.4]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
002:0042-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:6001      2.45     .161 No_date    6:00    15.85    n/a
                + 10:6002     11.01     .835 No_date    6:00    22.92    n/a
                + 03:6004      1.46     .290 No_date    6:00    49.78    n/a
  [DT= 5.00]  SUM= 04:6002.2    14.92    1.286 No_date    6:00    24.39    n/a
002:0043-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD    01:1001     47.64    1.443 No_date    6:15    16.46    .280
  [CN= 64.0: N= 3.00]
  [Tp= .38:DT= 5.00]
002:0044-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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		SWM. sum						
ROUTE CHANNEL	-> 01:1001	47.64	1.443	No_date	6:15	16.46	n/a	
[RDT= 1.67]	out<- 10:1.002	47.64	1.380	No_date	6:22	16.46	n/a	
[L/S/n= 402./2.240/.050]								
{Vmax= 1.186:Dmax= .157}								
002:0045	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-		
CALIB NASHYD	01:1002	4.51	.211	No_date	6:05	15.90	.270	
[CN= 62.9: N= 3.00]								
[Tp= .17:DT= 5.00]								
002:0046	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-		
ADD HYD	10:1.002	47.64	1.380	No_date	6:22	16.46	n/a	
	+ 01:1002	4.51	.211	No_date	6:05	15.90	n/a	
[DT= 1.67]	SUM= 03:1002.2	52.15	1.471	No_date	6:20	16.42	n/a	
002:0047	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-		
* CALIB NASHYD	01:1003	2.41	.163	No_date	6:00	20.09	.341	
[CN= 70.4: N= 3.00]								
[Tp= .14:DT= 5.00]								
002:0048	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-		
* CALIB STANDHYD	05:1004	1.36	.273	No_date	6:00	50.56	.858	
[XIMP=.01:TIMP=.89]								
[LOSS= 2 :CN= 74.0]								
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]								
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]								
002:0049	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-		
ADD HYD	01:1003	2.41	.163	No_date	6:00	20.09	n/a	
	+ 03:1002.2	52.15	1.471	No_date	6:20	16.42	n/a	
	+ 05:1004	1.36	.273	No_date	6:00	50.56	n/a	
[DT= 1.67]	SUM= 10:1004.2	55.92	1.570	No_date	6:18	17.40	n/a	
002:0050	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-		
ADD HYD	04:6002.2	14.92	1.286	No_date	6:00	24.39	n/a	
	+ 10:1004.2	55.92	1.570	No_date	6:18	17.40	n/a	
[DT= 1.67]	SUM= 01:1004.2	70.84	2.589	No_date	6:00	18.87	n/a	
002:0051	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-		
CALIB NASHYD	10:6003	5.59	.455	No_date	6:00	26.40	.448	
[CN= 79.0: N= 3.00]								
[Tp= .17:DT= 5.00]								
002:0052	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-		
ADD HYD	01:1004.2	70.84	2.589	No_date	6:00	18.87	n/a	
	+ 10:6003	5.59	.455	No_date	6:00	26.40	n/a	
[DT= 1.67]	SUM= 03:6003.2	76.43	3.044	No_date	6:00	19.42	n/a	
002:0053	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-		
CALIB NASHYD	01:2001	136.38	3.731	No_date	6:25	18.53	.315	
[CN= 67.8: N= 3.00]								
[Tp= .52:DT= 5.00]								
002:0054	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-		
ROUTE CHANNEL	-> 01:2001	136.38	3.731	No_date	6:25	18.53	n/a	
[RDT= 1.67]	out<- 10:2.002	136.38	3.275	No_date	6:42	18.53	n/a	
[L/S/n= 933./1.500/.050]								
{Vmax= .980:Dmax= .513}								
002:0055	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-		
CALIB NASHYD	01:2002	7.78	.181	No_date	6:25	15.70	.267	
[CN= 62.5: N= 3.00]								
[Tp= .51:DT= 5.00]								
002:0056	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-		
ADD HYD	10:2.002	136.38	3.275	No_date	6:42	18.53	n/a	
	+ 01:2002	7.78	.181	No_date	6:25	15.70	n/a	
[DT= 1.67]	SUM= 04:2001.2	144.16	3.434	No_date	6:42	18.38	n/a	
002:0057	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-		
* CALIB STANDHYD	01:2003	.96	.190	No_date	6:00	48.20	.818	
[XIMP=.01:TIMP=.86]								
[LOSS= 2 :CN= 74.0]								
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]								
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]								
002:0058	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-		

		SWM. sum							
ADD HYD	01:2003	.96	.190	No_date	6:00	48.20	n/a		
	+ 04:2001.2	144.16	3.434	No_date	6:42	18.38	n/a		
[DT= 1.67] SUM=	10:2002.2	145.12	3.446	No_date	6:42	18.58	n/a		
002:0059	-----ID:NHYD-----	-----AREA-----	-----QPEAK-----	TpeakDate_hh:mm	-----R.V.-R.C.-				
ADD HYD	10:2002.2	145.12	3.446	No_date	6:42	18.58	n/a		
	+ 03:6003.2	76.43	3.044	No_date	6:00	19.42	n/a		
[DT= 1.67] SUM=	01:2002.2	221.55	5.100	No_date	6:30	18.87	n/a		
002:0060	-----ID:NHYD-----	-----AREA-----	-----QPEAK-----	TpeakDate_hh:mm	-----R.V.-R.C.-				
* CALIB NASHYD	10:7001	3.11	.209	No_date	6:00	16.59	.282		
[CN= 64.3: N= 3.00]									
[Tp= .10:DT= 5.00]									
002:0061	-----ID:NHYD-----	-----AREA-----	-----QPEAK-----	TpeakDate_hh:mm	-----R.V.-R.C.-				
ADD HYD	01:2002.2	221.55	5.100	No_date	6:30	18.87	n/a		
	+ 10:7001	3.11	.209	No_date	6:00	16.59	n/a		
[DT= 1.67] SUM=	03:7001.2	224.66	5.139	No_date	6:30	18.84	n/a		
002:0062	-----ID:NHYD-----	-----AREA-----	-----QPEAK-----	TpeakDate_hh:mm	-----R.V.-R.C.-				
* CALIB STANDHYD	01:2004	2.28	.240	No_date	6:00	25.57	.434		
[XIMP=.01:TIMP=.40]									
[LOSS= 2 :CN= 68.0]									
[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]									
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]									
002:0063	-----ID:NHYD-----	-----AREA-----	-----QPEAK-----	TpeakDate_hh:mm	-----R.V.-R.C.-				
ADD HYD	01:2004	2.28	.240	No_date	6:00	25.57	n/a		
	+ 03:7001.2	224.66	5.139	No_date	6:30	18.84	n/a		
[DT= 1.67] SUM=	10:2004.2	226.94	5.181	No_date	6:30	18.91	n/a		
002:0064	-----ID:NHYD-----	-----AREA-----	-----QPEAK-----	TpeakDate_hh:mm	-----R.V.-R.C.-				
CALIB NASHYD	01:3001	78.24	1.983	No_date	6:20	15.39	.261		
[CN= 61.9: N= 3.00]									
[Tp= .44:DT= 5.00]									
002:0065	-----ID:NHYD-----	-----AREA-----	-----QPEAK-----	TpeakDate_hh:mm	-----R.V.-R.C.-				
ROUTE CHANNEL ->	01:3001	78.24	1.983	No_date	6:20	15.39	n/a		
[RDT= 1.67] out<-	03:3.002	78.24	1.948	No_date	6:23	15.39	n/a		
[L/S/n= 1097./9.080/.050]									
{Vmax= 4.589:Dmax= .025}									
002:0066	-----ID:NHYD-----	-----AREA-----	-----QPEAK-----	TpeakDate_hh:mm	-----R.V.-R.C.-				
CALIB NASHYD	01:3002	9.19	.247	No_date	6:25	18.52	.314		
[CN= 67.8: N= 3.00]									
[Tp= .53:DT= 5.00]									
002:0067	-----ID:NHYD-----	-----AREA-----	-----QPEAK-----	TpeakDate_hh:mm	-----R.V.-R.C.-				
ADD HYD	01:3002	9.19	.247	No_date	6:25	18.52	n/a		
	+ 03:3.002	78.24	1.948	No_date	6:23	15.39	n/a		
[DT= 1.67] SUM=	04:3002.2	87.43	2.194	No_date	6:25	15.72	n/a		
002:0068	-----ID:NHYD-----	-----AREA-----	-----QPEAK-----	TpeakDate_hh:mm	-----R.V.-R.C.-				
* CALIB NASHYD	01:3010	4.15	.254	No_date	6:00	15.70	.267		
[CN= 62.5: N= 3.00]									
[Tp= .11:DT= 5.00]									
002:0069	-----ID:NHYD-----	-----AREA-----	-----QPEAK-----	TpeakDate_hh:mm	-----R.V.-R.C.-				
ADD HYD	01:3010	4.15	.254	No_date	6:00	15.70	n/a		
	+ 04:3002.2	87.43	2.194	No_date	6:25	15.72	n/a		
[DT= 1.67] SUM=	03:3010.2	91.58	2.245	No_date	6:23	15.72	n/a		
002:0070	-----ID:NHYD-----	-----AREA-----	-----QPEAK-----	TpeakDate_hh:mm	-----R.V.-R.C.-				
* CALIB STANDHYD	01:3003	1.99	.281	No_date	6:00	37.47	.636		
[XIMP=.48:TIMP=.48]									
[LOSS= 2 :CN= 67.8]									
[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]									
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]									
002:0071	-----ID:NHYD-----	-----AREA-----	-----QPEAK-----	TpeakDate_hh:mm	-----R.V.-R.C.-				
* CALIB STANDHYD	04:3004	.40	.068	No_date	6:00	45.78	.777		
[XIMP=.70:TIMP=.70]									
[LOSS= 2 :CN= 64.5]									
[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]									
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]									
002:0072	-----ID:NHYD-----	-----AREA-----	-----QPEAK-----	TpeakDate_hh:mm	-----R.V.-R.C.-				

		SWM. sum						
	ADD HYD	01:3003	1.99	.281	No_date	6:00	37.47	n/a
		+ 04:3004	.40	.068	No_date	6:00	45.78	n/a
	[DT= 5.00] SUM=	05:3004.2	2.39	.350	No_date	6:00	38.86	n/a
002:0073	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
	CALIB STANDHYD	01:3005	2.80	.273	No_date	6:00	29.33	.498
	[XIMP=.01:TIMP=.59]							
	[LOSS= 2 :CN= 64.5]							
	[Pervious area: IAper=	2.50:SLPP=3.40:LGP=	91.:MNP=.035:SCP=	.0]				
	[Impervious area: IAimp=	.50:SLPI=1.50:LGI=	368.:MNI=.013:SCI=	.0]				
002:0074	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
	ADD HYD	01:3005	2.80	.273	No_date	6:00	29.33	n/a
		+ 02:Minor	.97	.066	No_date	6:00	25.47	n/a
		+ 05:3004.2	2.39	.350	No_date	6:00	38.86	n/a
	[DT= 1.00] SUM=	04:3005.2	6.16	.689	No_date	6:00	32.42	n/a
002:0075	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
	ADD HYD	03:3010.2	91.58	2.245	No_date	6:23	15.72	n/a
		+ 04:3005.2	6.16	.689	No_date	6:00	32.42	n/a
	[DT= 1.00] SUM=	01:3005.2	97.74	2.396	No_date	6:23	16.77	n/a
002:0076	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
*	CALIB STANDHYD	03:3006	1.12	.207	No_date	6:00	43.83	.744
	[XIMP=.01:TIMP=.86]							
	[LOSS= 2 :CN= 64.5]							
	[Pervious area: IAper=	2.50:SLPP=3.40:LGP=	53.:MNP=.035:SCP=	.0]				
	[Impervious area: IAimp=	.50:SLPI=1.50:LGI=	94.:MNI=.013:SCI=	.0]				
002:0077	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
	ADD HYD	01:3005.2	97.74	2.396	No_date	6:23	16.77	n/a
		+ 03:3006	1.12	.207	No_date	6:00	43.83	n/a
	[DT= 1.00] SUM=	04:3005.2	98.86	2.426	No_date	6:23	17.08	n/a
002:0078	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
*	CALIB STANDHYD	01:3009	1.93	.364	No_date	6:00	47.75	.811
	[XIMP=.01:TIMP=.90]							
	[LOSS= 2 :CN= 64.5]							
	[Pervious area: IAper=	2.50:SLPP=3.40:LGP=	58.:MNP=.034:SCP=	.0]				
	[Impervious area: IAimp=	.50:SLPI=1.50:LGI=	217.:MNI=.013:SCI=	.0]				
002:0079	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
	ADD HYD	01:3009	1.93	.364	No_date	6:00	47.75	n/a
		+ 04:3005.2	98.86	2.426	No_date	6:23	17.08	n/a
	[DT= 1.00] SUM=	03:3009.2	100.79	2.516	No_date	6:00	17.67	n/a
002:0080	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
	ADD HYD	10:2004.2	226.94	5.181	No_date	6:30	18.91	n/a
		+ 03:3009.2	100.79	2.516	No_date	6:00	17.67	n/a
	[DT= 1.00] SUM=	01:3009.2	327.73	7.601	No_date	6:29	18.52	n/a
002:0081	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
*	CALIB STANDHYD	02:3007	2.08	.240	No_date	6:00	27.64	.469
	[XIMP=.01:TIMP=.36]							
	[LOSS= 2 :CN= 72.4]							
	[Pervious area: IAper=	2.50:SLPP=3.40:LGP=	47.:MNP=.034:SCP=	.0]				
	[Impervious area: IAimp=	.50:SLPI=1.50:LGI=	164.:MNI=.013:SCI=	.0]				
002:0082	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
	ADD HYD	01:3009.2	327.73	7.601	No_date	6:29	18.52	n/a
		+ 02:3007	2.08	.240	No_date	6:00	27.64	n/a
	[DT= 1.00] SUM=	03:3007.2	329.81	7.642	No_date	6:29	18.58	n/a
002:0083	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
*	CALIB NASHYD	01:2005	2.85	.453	No_date	6:00	34.98	.594
	[CN= 87.3: N= 3.00]							
	[Tp= .05:DT= 5.00]							
002:0084	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
	ADD HYD	01:2005	2.85	.453	No_date	6:00	34.98	n/a
		+ 03:3007.2	329.81	7.642	No_date	6:29	18.58	n/a
	[DT= 1.00] SUM=	02:2005.2	332.66	7.854	No_date	6:00	18.72	n/a
002:0085	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
*	CALIB STANDHYD	01:3008	1.61	.196	No_date	6:00	29.88	.507
	[XIMP=.01:TIMP=.40]							



SWM.sum

```

[LOSS= 2 :CN= 74.3]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
002:0086-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3008          1.61      .196 No_date  6:00  29.88  n/a
                + 02:2005.2      332.66    7.854 No_date  6:00  18.72  n/a
[DT= 1.00] SUM= 03:3008.2      334.27    8.050 No_date  6:00  18.78  n/a
002:0087-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:5001          62.50     .528 No_date  6:20   5.09  .086
[CN= 30.1: N= 3.00]
[Tp= .41:DT= 5.00]
002:0088-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL   -> 01:5001          62.50     .528 No_date  6:20   5.09  n/a
[RDT= 1.67] out<- 02:5.002        62.50     .486 No_date  6:28   5.09  n/a
[L/S/n= 912./2.030/.050]
{Vmax= 1.544:Dmax= .018}
002:0089-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     03:5002          14.10     .191 No_date  6:05   5.97  .101
[CN= 34.0: N= 3.00]
[Tp= .25:DT= 5.00]
002:0090-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   04:5004          3.48     .355 No_date  6:00  25.53  .433
[CN= 78.0: N= 3.00]
[Tp= .10:DT= 5.00]
002:0091-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          02:5.002          62.50     .486 No_date  6:28   5.09  n/a
                + 03:5002          14.10     .191 No_date  6:05   5.97  n/a
                + 04:5004          3.48     .355 No_date  6:00  25.53  n/a
[DT= 1.67] SUM= 05:5002.2          80.08     .690 No_date  6:05   6.14  n/a
002:0092-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   01:5003          2.65     .132 No_date  6:00  14.99  .254
[CN= 61.0: N= 3.00]
[Tp= .14:DT= 5.00]
002:0093-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:5003          2.65     .132 No_date  6:00  14.99  n/a
                + 05:5002.2          80.08     .690 No_date  6:05   6.14  n/a
[DT= 1.67] SUM= 02:5003.2          82.73     .819 No_date  6:00   6.42  n/a
002:0094-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:SWALE          .50      .105 No_date  6:00  56.53  .960
[XIMP=.95:TIMP=.95]
[LOSS= 2 :CN= 73.1]
[Pervious area: IAper= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
** END OF RUN : 2

```

\*\*\*\*\*

RUN:COMMAND#

```

003:0001-----
START
[TZERO = .00 hrs on 0]
[METOUT= 2 (1=imperial, 2=metric output)]
[NSTORM= 1 ]
[NRUN = 3 ]

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#*****
# Project Name: [Waterdown Road] Project Number: [107016] *
# Date : 09-14-2007 *
# Modeller : [KB] *
# Company : Philips Engineering Ltd *

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# License # : 3569108 \*  
#\*\*\*\*\*

003:0002-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

READ STORM

Filename = STORM.001

Comment = 10 Year SCS 12 hour City of Burlington (2004)

[SDT=10.00:SDUR= 12.00:PTOT= 69.69]

003:0003-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

CALIB NASHYD 01:4001 5.28 .352 No\_date 6:05 23.31 .335

[CN= 65.9: N= 3.00]

[Tp= .19:DT= 5.00]

003:0004-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

ROUTE CHANNEL -> 01:4001 5.28 .352 No\_date 6:05 23.31 n/a

[RDT= 1.67] out<- 02:4.003 5.28 .254 No\_date 6:13 23.31 n/a

[L/S/n= 475./1.260/.050]

{Vmax= .561:Dmax= .136}

003:0005-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

CALIB NASHYD 03:4003 3.13 .145 No\_date 6:10 21.14 .303

[CN= 62.6: N= 3.00]

[Tp= .29:DT= 5.00]

003:0006-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

CALIB NASHYD 04:4002 6.34 .481 No\_date 6:05 29.10 .418

[CN= 73.5: N= 3.00]

[Tp= .23:DT= 5.00]

003:0007-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

ADD HYD 02:4.003 5.28 .254 No\_date 6:13 23.31 n/a

+ 03:4003 3.13 .145 No\_date 6:10 21.14 n/a

+ 04:4002 6.34 .481 No\_date 6:05 29.10 n/a

[DT= 1.67] SUM= 05:4003.2 14.75 .846 No\_date 6:08 25.34 n/a

003:0008-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

ROUTE CHANNEL -> 05:4003.2 14.75 .846 No\_date 6:08 25.34 n/a

\* [RDT= 1.67] out<- 01:4.006 14.75 .822 No\_date 6:12 25.34 n/a

[L/S/n= 357./5.040/.050]

{Vmax= 1.630:Dmax= .037}

003:0009-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

\* CALIB NASHYD 02:4004A .10 .014 No\_date 6:00 29.17 .419

[CN= 73.6: N= 3.00]

[Tp= .03:DT= 5.00]

003:0010-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

\* CALIB NASHYD 03:4004B .36 .049 No\_date 6:00 29.17 .419

[CN= 73.6: N= 3.00]

[Tp= .05:DT= 5.00]

003:0011-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

\* CALIB NASHYD 04:4004C 1.13 .129 No\_date 6:00 29.17 .419

[CN= 73.6: N= 3.00]

[Tp= .11:DT= 5.00]

#####  
# NEW FELLOWSHIP CHURCH - WEST DRAINAGE TO GRINDSTONE TRIB 4 #  
#####

003:0012-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

\* CALIB STANDHYD 05:4010A .35 .074 No\_date 6:00 54.14 .777

[XIMP=.63:TIMP=.63]

[LOSS= 2 :CN= 73.6]

[Pervious area: IAper= 2.50:SLPP=1.00:LGP= 5.:MNP=.035:SCP= .0]

[Impervious area: IAimp= .50:SLPI=1.00:LGI= 30.:MNI=.013:SCI= .0]

003:0013-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

\* CALIB NASHYD 06:4010B .21 .029 No\_date 6:00 29.17 .419

[CN= 73.6: N= 3.00]

[Tp= .04:DT= 5.00]

003:0014-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

\* CALIB STANDHYD 07:4010C .14 .025 No\_date 6:00 43.15 .619

[XIMP=.36:TIMP=.36]

[LOSS= 2 :CN= 73.6]

SWM.sum

[Pervious area: IAper= 2.50:SLPP=\*\*\*\*:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 20.:MNI=.013:SCI= .0]

003:0015-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-
ADD HYD 05:4010A .35 .074 No\_date 6:00 54.14 n/a
+ 07:4010C .14 .025 No\_date 6:00 43.15 n/a
[DT= 5.00] SUM= 08:PND3IN .49 .099 No\_date 6:00 51.00 n/a
003:0016-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-
ROUTE RESERVOIR -> 08:PND3IN .49 .099 No\_date 6:00 51.00 n/a
\* [RDT= 1.00] out<- 07:SWM-3 .49 .023 No\_date 6:05 46.07 n/a
overflow <= 09:OVF .00 .000 No\_date 0:00 .00 n/a
{MxStoUsed=.1490E-01, TotovfVol=.0000E+00, N-ovf= 0, TotDurOvf= 0.hrs}
003:0017-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-
ADD HYD 07:SWM-3 .49 .023 No\_date 6:05 46.07 n/a
+ 09:OVF .00 .000 No\_date 0:00 .00 n/a
[DT= 1.00] SUM= 05:PND3OU .49 .023 No\_date 6:05 46.07 n/a
003:0018-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-
ADD HYD 05:PND3OU .49 .023 No\_date 6:05 46.07 n/a
+ 06:4010B .21 .029 No\_date 6:00 29.17 n/a
[DT= 1.00] SUM= 08:WestSi .70 .050 No\_date 6:00 41.00 n/a
003:0019-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-
ADD HYD 01:4.006 14.75 .822 No\_date 6:12 25.34 n/a
+ 02:4004A .10 .014 No\_date 6:00 29.17 n/a
+ 03:4004B .36 .049 No\_date 6:00 29.17 n/a
+ 04:4004C 1.13 .129 No\_date 6:00 29.17 n/a
+ 08:WestSi .70 .050 No\_date 6:00 41.00 n/a
[DT= 1.00] SUM= 09:4008.1 17.04 .906 No\_date 6:11 26.34 n/a

# NEW FELLOWSHIP CHURCH - EAST MAJOR DRAINAGE TO GRINDSTONE TRIB 4 #

003:0020-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-
\* CALIB STANDHYD 01:4011A .12 .022 No\_date 6:00 43.96 .631
[XIMP=.38:TIMP=.38]
[LOSS= 2 :CN= 73.6]
[Pervious area: IAper= 2.50:SLPP=\*\*\*\*:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
003:0021-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-
\* CALIB STANDHYD 02:4011B .10 .019 No\_date 6:00 46.81 .672
[XIMP=.45:TIMP=.45]
[LOSS= 2 :CN= 73.6]
[Pervious area: IAper= 2.50:SLPP=\*\*\*\*:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]

003:0022-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-
\* CALIB NASHYD 03:4004D .57 .076 No\_date 6:00 29.17 .419
[CN= 73.6: N= 3.00]
[Tp= .06:DT= 5.00]
003:0023-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-
\* CALIB NASHYD 04:4011ex .18 .025 No\_date 6:00 29.17 .419
[CN= 73.6: N= 3.00]
[Tp= .03:DT= 5.00]
003:0024-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-
ADD HYD 01:4011A .12 .022 No\_date 6:00 43.96 n/a
+ 04:4011ex .18 .025 No\_date 6:00 29.17 n/a
[DT= 5.00] SUM= 05:PND1IN .30 .047 No\_date 6:00 35.09 n/a
003:0025-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-
ROUTE RESERVOIR -> 05:PND1IN .30 .047 No\_date 6:00 35.09 n/a
[RDT= 1.00] out<- 06:SWM-1 .30 .009 No\_date 6:05 35.09 n/a
overflow <= 07:OVF .00 .000 No\_date 0:00 .00 n/a
{MxStoUsed=.4705E-02, TotovfVol=.0000E+00, N-ovf= 0, TotDurOvf= 0.hrs}
003:0026-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-
ADD HYD 06:SWM-1 .30 .009 No\_date 6:05 35.09 n/a
+ 07:OVF .00 .000 No\_date 0:00 .00 n/a

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                                SWM.sum
[DT= 1.00] SUM= 08:PND1OU          .30      .009 No_date    6:05    35.09  n/a
003:0027-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE RESERVOIR -> 02:4011B         .10      .019 No_date    6:00    46.81  n/a
[RD= 1.00] out<- 01:SWM-2          .10      .003 No_date    6:05    46.81  n/a
overflow <= 04:OVF                 .00      .000 No_date    0:00     .00    n/a
{MxStoUsed=.2156E-02, TotOvfVol=.0000E+00, N-ovf= 0, TotDurovf= 0.hrs}
003:0028-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:SWM-2          .10      .003 No_date    6:05    46.81  n/a
                + 04:OVF          .00      .000 No_date    0:00     .00    n/a
[DT= 1.00] SUM= 07:PND2OU          .10      .003 No_date    6:05    46.81  n/a
003:0029-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          03:4004D         .57      .076 No_date    6:00    29.17  n/a
                + 07:PND2OU         .10      .003 No_date    6:05    46.81  n/a
                + 08:PND1OU         .30      .009 No_date    6:05    35.09  n/a
[DT= 1.00] SUM= 05:4011          .97      .086 No_date    6:00    32.82  n/a
#####
#####
003:0030-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
DIVERT HYD      -> 05:4011         .97      .086 No_date    6:00    32.82  n/a
diverted <= 02:Minor                .96      .067 No_date    6:00    32.82  n/a
diverted <= 03:Major                .01      .019 No_date    6:00    32.82  n/a
#####
003:0031-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL  -> 03:Major         .01      .019 No_date    6:00    32.82  n/a
* [RD= 1.00] out<- 01:4.007         .01      .007 No_date    6:01    32.82  n/a
[L/S/n= 250./2.400/.035]
{Vmax= .573:Dmax=.065}
003:0032-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          09:4008.1        17.04    .906 No_date    6:11    26.34  n/a
                + 01:4.007         .01      .007 No_date    6:01    32.82  n/a
[DT= 1.00] SUM= 03:4008.1        17.05    .909 No_date    6:11    26.35  n/a
003:0033-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD  06:4006           3.37    .327 No_date    6:00    25.58  .367
[CN= 69.1: N= 3.00]
[Tp= .12:DT= 5.00]
003:0034-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 04:4007           5.04    .797 No_date    6:00    40.84  .586
[XIMP=.31:TIMP=.31]
[LOSS= 2 :CN= 72.8]
[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
[Impervious area: IAIMP= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
003:0035-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 05:4008           2.42    .404 No_date    6:00    41.55  .596
[XIMP=.22:TIMP=.22]
[LOSS= 2 :CN= 79.3]
[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
[Impervious area: IAIMP= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
003:0036-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          03:4008.1        17.05    .909 No_date    6:11    26.35  n/a
                + 04:4007           5.04    .797 No_date    6:00    40.84  n/a
                + 05:4008           2.42    .404 No_date    6:00    41.55  n/a
                + 06:4006           3.37    .327 No_date    6:00    25.58  n/a
[DT= 1.00] SUM= 01:4008.2        27.88    2.329 No_date    6:00    30.19  n/a
003:0037-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 03:4009           5.11    1.152 No_date    6:00    61.41  .881
[XIMP=.01:TIMP=.90]
[LOSS= 2 :CN= 73.1]
[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]
[Impervious area: IAIMP= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]
003:0038-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:4008.2        27.88    2.329 No_date    6:00    30.19  n/a
                + 03:4009           5.11    1.152 No_date    6:00    61.41  n/a
[DT= 1.00] SUM= 05:4009.2        32.99    3.481 No_date    6:00    35.03  n/a

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                                SWM.sum
003:0039-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD          01:6001          2.45      .217 No_date    6:00    21.27 .305
  [CN= 62.8: N= 3.00]
  [Tp= .09:DT= 5.00]
003:0040-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD          10:6002          11.01     1.101 No_date    6:00    30.09 .432
  [CN= 74.6: N= 3.00]
  [Tp= .15:DT= 5.00]
003:0041-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD       03:6004          1.46      .349 No_date    6:00    60.37 .866
  [XIMP=.01:TIMP=.81]
  [LOSS= 2 :CN= 82.4]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
003:0042-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD                01:6001          2.45      .217 No_date    6:00    21.27 n/a
                        + 10:6002          11.01     1.101 No_date    6:00    30.09 n/a
                        + 03:6004          1.46      .349 No_date    6:00    60.37 n/a
  [DT= 5.00] SUM= 04:6002.2  14.92     1.667 No_date    6:00    31.60 n/a
003:0043-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD          01:1001          47.64     1.945 No_date    6:15    22.05 .316
  [CN= 64.0: N= 3.00]
  [Tp= .38:DT= 5.00]
003:0044-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ROUTE CHANNEL -> 01:1001          47.64     1.945 No_date    6:15    22.05 n/a
  [RDT= 1.67] out<- 10:1.002      47.64     1.859 No_date    6:22    22.05 n/a
  [L/S/n= 402./2.240/.050]
  {Vmax= 1.186:Dmax= .212}
003:0045-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD          01:1002          4.51      .284 No_date    6:05    21.33 .306
  [CN= 62.9: N= 3.00]
  [Tp= .17:DT= 5.00]
003:0046-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD                10:1.002        47.64     1.859 No_date    6:22    22.05 n/a
                        + 01:1002          4.51      .284 No_date    6:05    21.33 n/a
  [DT= 1.67] SUM= 03:1002.2  52.15     1.982 No_date    6:18    21.99 n/a
003:0047-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD          01:1003          2.41      .217 No_date    6:00    26.61 .382
  [CN= 70.4: N= 3.00]
  [Tp= .14:DT= 5.00]
003:0048-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD       05:1004          1.36      .329 No_date    6:00    61.18 .878
  [XIMP=.01:TIMP=.89]
  [LOSS= 2 :CN= 74.0]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
003:0049-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD                01:1003          2.41      .217 No_date    6:00    26.61 n/a
                        + 03:1002.2      52.15     1.982 No_date    6:18    21.99 n/a
                        + 05:1004          1.36      .329 No_date    6:00    61.18 n/a
  [DT= 1.67] SUM= 10:1004.2  55.92     2.107 No_date    6:18    23.14 n/a
003:0050-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD                04:6002.2      14.92     1.667 No_date    6:00    31.60 n/a
                        + 10:1004.2      55.92     2.107 No_date    6:18    23.14 n/a
  [DT= 1.67] SUM= 01:1004.2  70.84     3.393 No_date    6:00    24.92 n/a
003:0051-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD          10:6003          5.59      .594 No_date    6:00    34.29 .492
  [CN= 79.0: N= 3.00]
  [Tp= .17:DT= 5.00]
003:0052-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD                01:1004.2      70.84     3.393 No_date    6:00    24.92 n/a
                        + 10:6003          5.59      .594 No_date    6:00    34.29 n/a
  [DT= 1.67] SUM= 03:6003.2  76.43     3.987 No_date    6:00    25.61 n/a

```

SWM. sum									
ID	NHYD	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.			
003:0053	CALIB NASHYD	01:2001	136.38	4.996 No_date	6:25	24.66	.354		
[CN= 67.8: N= 3.00]									
[Tp= .52:DT= 5.00]									
003:0054	ROUTE CHANNEL	-> 01:2001	136.38	4.996 No_date	6:25	24.66	n/a		
[RDT= 1.67] out<- 10:2.002									
[L/S/n= 933./1.500/.050]									
{Vmax= 1.007:Dmax= .549}									
003:0055	CALIB NASHYD	01:2002	7.78	.244 No_date	6:25	21.08	.302		
[CN= 62.5: N= 3.00]									
[Tp= .51:DT= 5.00]									
003:0056	ADD HYD	10:2.002	136.38	4.418 No_date	6:40	24.66	n/a		
+ 01:2002									
[DT= 1.67] SUM= 04:2001.2									
[DT= 1.67] SUM= 04:2001.2									
003:0057	* CALIB STANDHYD	01:2003	.96	.229 No_date	6:00	58.70	.842		
[XIMP=.01:TIMP=.86]									
[LOSS= 2 :CN= 74.0]									
[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]									
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]									
003:0058	ADD HYD	01:2003	.96	.229 No_date	6:00	58.70	n/a		
+ 04:2001.2									
[DT= 1.67] SUM= 10:2002.2									
[DT= 1.67] SUM= 10:2002.2									
003:0059	ADD HYD	10:2002.2	145.12	4.652 No_date	6:40	24.69	n/a		
+ 03:6003.2									
[DT= 1.67] SUM= 01:2002.2									
[DT= 1.67] SUM= 01:2002.2									
003:0060	* CALIB NASHYD	10:7001	3.11	.280 No_date	6:00	22.21	.319		
[CN= 64.3: N= 3.00]									
[Tp= .10:DT= 5.00]									
003:0061	ADD HYD	01:2002.2	221.55	6.865 No_date	6:30	25.01	n/a		
+ 10:7001									
[DT= 1.67] SUM= 03:7001.2									
[DT= 1.67] SUM= 03:7001.2									
003:0062	* CALIB STANDHYD	01:2004	2.28	.316 No_date	6:00	33.27	.477		
[XIMP=.01:TIMP=.40]									
[LOSS= 2 :CN= 68.0]									
[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]									
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]									
003:0063	ADD HYD	01:2004	2.28	.316 No_date	6:00	33.27	n/a		
+ 03:7001.2									
[DT= 1.67] SUM= 10:2004.2									
[DT= 1.67] SUM= 10:2004.2									
003:0064	CALIB NASHYD	01:3001	78.24	2.680 No_date	6:20	20.68	.297		
[CN= 61.9: N= 3.00]									
[Tp= .44:DT= 5.00]									
003:0065	ROUTE CHANNEL	-> 01:3001	78.24	2.680 No_date	6:20	20.68	n/a		
[RDT= 1.67] out<- 03:3.002									
[L/S/n= 1097./9.080/.050]									
{Vmax= 4.589:Dmax= .034}									
003:0066	CALIB NASHYD	01:3002	9.19	.331 No_date	6:25	24.65	.354		
[CN= 67.8: N= 3.00]									
[Tp= .53:DT= 5.00]									
003:0067									

		SWM. sum					
ADD HYD	01:3002	9.19	.331	No_date	6:25	24.65	n/a
	+ 03:3.002	78.24	2.634	No_date	6:23	20.68	n/a
[DT= 1.67]	SUM= 04:3002.2	87.43	2.963	No_date	6:23	21.10	n/a
003:0068	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB NASHYD	01:3010	4.15	.341	No_date	6:00	21.08	.302
	[CN= 62.5: N= 3.00]						
	[Tp= .11:DT= 5.00]						
003:0069	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:3010	4.15	.341	No_date	6:00	21.08	n/a
	+ 04:3002.2	87.43	2.963	No_date	6:23	21.10	n/a
[DT= 1.67]	SUM= 03:3010.2	91.58	3.031	No_date	6:23	21.10	n/a
003:0070	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB STANDHYD	01:3003	1.99	.347	No_date	6:00	45.82	.657
	[XIMP=.48:TIMP=.48]						
	[LOSS= 2 :CN= 67.8]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]						
003:0071	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB STANDHYD	04:3004	.40	.083	No_date	6:00	55.02	.790
	[XIMP=.70:TIMP=.70]						
	[LOSS= 2 :CN= 64.5]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]						
003:0072	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:3003	1.99	.347	No_date	6:00	45.82	n/a
	+ 04:3004	.40	.083	No_date	6:00	55.02	n/a
[DT= 5.00]	SUM= 05:3004.2	2.39	.430	No_date	6:00	47.36	n/a
003:0073	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
CALIB STANDHYD	01:3005	2.80	.361	No_date	6:00	37.69	.541
	[XIMP=.01:TIMP=.59]						
	[LOSS= 2 :CN= 64.5]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]						
003:0074	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:3005	2.80	.361	No_date	6:00	37.69	n/a
	+ 02:Minor	.96	.067	No_date	6:00	32.82	n/a
	+ 05:3004.2	2.39	.430	No_date	6:00	47.36	n/a
[DT= 1.00]	SUM= 04:3005.2	6.15	.857	No_date	6:00	40.69	n/a
003:0075	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	03:3010.2	91.58	3.031	No_date	6:23	21.10	n/a
	+ 04:3005.2	6.15	.857	No_date	6:00	40.69	n/a
[DT= 1.00]	SUM= 01:3005.2	97.73	3.216	No_date	6:23	22.33	n/a
003:0076	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB STANDHYD	03:3006	1.12	.253	No_date	6:00	54.02	.775
	[XIMP=.01:TIMP=.86]						
	[LOSS= 2 :CN= 64.5]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]						
003:0077	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:3005.2	97.73	3.216	No_date	6:23	22.33	n/a
	+ 03:3006	1.12	.253	No_date	6:00	54.02	n/a
[DT= 1.00]	SUM= 04:3005.2	98.85	3.252	No_date	6:23	22.69	n/a
003:0078	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
* CALIB STANDHYD	01:3009	1.93	.443	No_date	6:00	58.22	.835
	[XIMP=.01:TIMP=.90]						
	[LOSS= 2 :CN= 64.5]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]						
003:0079	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	
ADD HYD	01:3009	1.93	.443	No_date	6:00	58.22	n/a
	+ 04:3005.2	98.85	3.252	No_date	6:23	22.69	n/a
[DT= 1.00]	SUM= 03:3009.2	100.78	3.320	No_date	6:22	23.37	n/a
003:0080	-----ID:NHYD-----	AREA----	QPEAK-	TpeakDate_hh:mm----	R.V.-	R.C.-	

		SWM. sum							
ADD HYD		10:2004.2	226.94	6.970	No_date	6:30	25.05	n/a	
	+	03:3009.2	100.78	3.320	No_date	6:22	23.37	n/a	
[DT= 1.00]	SUM=	01:3009.2	327.72	10.203	No_date	6:29	24.54	n/a	
003:0081	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
* CALIB STANDHYD		02:3007	2.08	.315	No_date	6:00	35.76	.513	
		[XIMP=.01:TIMP=.36]							
		[LOSS= 2 :CN= 72.4]							
		[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]							
		[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]							
003:0082	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
ADD HYD		01:3009.2	327.72	10.203	No_date	6:29	24.54	n/a	
	+	02:3007	2.08	.315	No_date	6:00	35.76	n/a	
[DT= 1.00]	SUM=	03:3007.2	329.80	10.255	No_date	6:29	24.61	n/a	
003:0083	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
* CALIB NASHYD		01:2005	2.85	.567	No_date	6:00	44.30	.636	
		[CN= 87.3: N= 3.00]							
		[Tp= .05:DT= 5.00]							
003:0084	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
ADD HYD		01:2005	2.85	.567	No_date	6:00	44.30	n/a	
	+	03:3007.2	329.80	10.255	No_date	6:29	24.61	n/a	
[DT= 1.00]	SUM=	02:2005.2	332.65	10.338	No_date	6:29	24.78	n/a	
003:0085	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
* CALIB STANDHYD		01:3008	1.61	.255	No_date	6:00	38.40	.551	
		[XIMP=.01:TIMP=.40]							
		[LOSS= 2 :CN= 74.3]							
		[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]							
		[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]							
003:0086	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
ADD HYD		01:3008	1.61	.255	No_date	6:00	38.40	n/a	
	+	02:2005.2	332.65	10.338	No_date	6:29	24.78	n/a	
[DT= 1.00]	SUM=	03:3008.2	334.26	10.536	No_date	6:00	24.84	n/a	
003:0087	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
CALIB NASHYD		01:5001	62.50	.736	No_date	6:20	7.07	.101	
		[CN= 30.1: N= 3.00]							
		[Tp= .41:DT= 5.00]							
003:0088	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
ROUTE CHANNEL	->	01:5001	62.50	.736	No_date	6:20	7.07	n/a	
[RDT= 1.67]	out<-	02:5.002	62.50	.676	No_date	6:28	7.07	n/a	
		[L/S/n= 912./2.030/.050]							
		{Vmax= 1.544:Dmax= .024}							
003:0089	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
CALIB NASHYD		03:5002	14.10	.266	No_date	6:05	8.27	.119	
		[CN= 34.0: N= 3.00]							
		[Tp= .25:DT= 5.00]							
003:0090	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
* CALIB NASHYD		04:5004	3.48	.462	No_date	6:00	33.25	.477	
		[CN= 78.0: N= 3.00]							
		[Tp= .10:DT= 5.00]							
003:0091	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
ADD HYD		02:5.002	62.50	.676	No_date	6:28	7.07	n/a	
	+	03:5002	14.10	.266	No_date	6:05	8.27	n/a	
	+	04:5004	3.48	.462	No_date	6:00	33.25	n/a	
[DT= 1.67]	SUM=	05:5002.2	80.08	.939	No_date	6:05	8.42	n/a	
003:0092	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
* CALIB NASHYD		01:5003	2.65	.179	No_date	6:00	20.17	.289	
		[CN= 61.0: N= 3.00]							
		[Tp= .14:DT= 5.00]							
003:0093	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
ADD HYD		01:5003	2.65	.179	No_date	6:00	20.17	n/a	
	+	05:5002.2	80.08	.939	No_date	6:05	8.42	n/a	
[DT= 1.67]	SUM=	02:5003.2	82.73	1.105	No_date	6:00	8.80	n/a	
003:0094	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----	R.V.-R.C.-
* CALIB STANDHYD		01:SWALE	.50	.125	No_date	6:00	67.13	.963	



SWM.sum

```

[XIMP=.95:TIMP=.95]
[LOSS= 2 :CN= 73.1]
[Pervious area: IAper= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
** END OF RUN : 3

```

\*\*\*\*\*

RUN:COMMAND#

004:0001-----

START

```

[TZERO = .00 hrs on 0]
[METOUT= 2 (1=imperial, 2=metric output)]
[NSTORM= 1 ]
[NRUN = 4 ]

```

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```

# Project Name: [waterdown Road] Project Number: [107016] *
# Date : 09-14-2007 *
# Modeller : [KB] *
# Company : Philips Engineering Ltd *
# License # : 3569108 *
#*****

```

004:0002-----

READ STORM

```

Filename = STORM.001
Comment = 25 Year SCS 12 hour City of Burlington (2004)
[SDT=10.00:SDUR= 12.00:PTOT= 83.41]

```

004:0003-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

CALIB NASHYD 01:4001 5.28 .477 No_date 6:05 31.47 .377
[CN= 65.9: N= 3.00]
[Tp= .19:DT= 5.00]

```

004:0004-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

ROUTE CHANNEL -> 01:4001 5.28 .477 No_date 6:05 31.47 n/a
[RDT= 1.67] out<- 02:4.003 5.28 .345 No_date 6:13 31.47 n/a
[L/S/n= 475./1.260/.050]
{Vmax= .561:Dmax= .184}

```

004:0005-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

CALIB NASHYD 03:4003 3.13 .199 No_date 6:10 28.71 .344
[CN= 62.6: N= 3.00]
[Tp= .29:DT= 5.00]

```

004:0006-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

CALIB NASHYD 04:4002 6.34 .643 No_date 6:05 38.67 .464
[CN= 73.5: N= 3.00]
[Tp= .23:DT= 5.00]

```

004:0007-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

ADD HYD
02:4.003 5.28 .345 No_date 6:13 31.47 n/a
+ 03:4003 3.13 .199 No_date 6:10 28.71 n/a
+ 04:4002 6.34 .643 No_date 6:05 38.67 n/a
[DT= 1.67] SUM= 05:4003.2 14.75 1.139 No_date 6:08 33.98 n/a

```

004:0008-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

* ROUTE CHANNEL -> 05:4003.2 14.75 1.139 No_date 6:08 33.98 n/a
[RDT= 1.67] out<- 01:4.006 14.75 1.108 No_date 6:12 33.98 n/a
[L/S/n= 357./5.040/.050]
{Vmax= 1.630:Dmax= .049}

```

004:0009-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

* CALIB NASHYD 02:4004A .10 .018 No_date 6:00 38.76 .465
[CN= 73.6: N= 3.00]
[Tp= .03:DT= 5.00]

```

004:0010-----ID:NHYD-----AREA-----QPEAK-TpeakDate\_hh:mm-----R.V.-R.C.-

```

* CALIB NASHYD      03:4004B      SWM.Sum
  [CN= 73.6: N= 3.00]          .36      .065 No_date      6:00      38.76 .465
  [Tp= .05:DT= 5.00]
004:0011-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:4004C      1.13      .171 No_date      6:00      38.76 .465
  [CN= 73.6: N= 3.00]
  [Tp= .11:DT= 5.00]
#####
# NEW FELLOWSHIP CHURCH - WEST DRAINAGE TO GRINDSTONE TRIB 4 #
#####
004:0012-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    05:4010A      .35      .091 No_date      6:00      66.31 .795
  [XIMP=.63:TIMP=.63]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.00:LGI= 30.:MNI=.013:SCI= .0]
004:0013-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      06:4010B      .21      .038 No_date      6:00      38.76 .465
  [CN= 73.6: N= 3.00]
  [Tp= .04:DT= 5.00]
004:0014-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    07:4010C      .14      .032 No_date      6:00      54.19 .650
  [XIMP=.36:TIMP=.36]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 20.:MNI=.013:SCI= .0]
#####
004:0015-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              05:4010A      .35      .091 No_date      6:00      66.31 n/a
    + 07:4010C          .14      .032 No_date      6:00      54.19 n/a
  [DT= 5.00] SUM= 08:PND3IN .49      .122 No_date      6:00      62.84 n/a
004:0016-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE RESERVOIR -> 08:PND3IN .49      .122 No_date      6:00      62.84 n/a
* [RDT= 1.00] out<- 07:SWM-3 .49      .039 No_date      6:04      57.91 n/a
  overflow <= 09:OVF .00      .000 No_date      0:00      .00 n/a
  {MxStoUsed=.1770E-01, TotovfVol=.0000E+00, N-ovf= 0, TotDurovf= 0.hrs}
004:0017-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              07:SWM-3          .49      .039 No_date      6:04      57.91 n/a
    + 09:OVF            .00      .000 No_date      0:00      .00 n/a
  [DT= 1.00] SUM= 05:PND3OU .49      .039 No_date      6:04      57.91 n/a
004:0018-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              05:PND3OU          .49      .039 No_date      6:04      57.91 n/a
    + 06:4010B          .21      .038 No_date      6:00      38.76 n/a
  [DT= 1.00] SUM= 08:WestSi .70      .068 No_date      6:00      52.16 n/a
004:0019-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD              01:4.006          14.75    1.108 No_date      6:12      33.98 n/a
    + 02:4004A          .10      .018 No_date      6:00      38.76 n/a
    + 03:4004B          .36      .065 No_date      6:00      38.76 n/a
    + 04:4004C          1.13    .171 No_date      6:00      38.76 n/a
    + 08:WestSi          .70      .068 No_date      6:00      52.16 n/a
  [DT= 1.00] SUM= 09:4008.1 17.04    1.223 No_date      6:10      35.17 n/a
#####
# NEW FELLOWSHIP CHURCH - EAST MAJOR DRAINAGE TO GRINDSTONE TRIB 4 #
#####
004:0020-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    01:4011A      .12      .027 No_date      6:00      55.09 .660
  [XIMP=.38:TIMP=.38]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
004:0021-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    02:4011B      .10      .024 No_date      6:00      58.23 .698
  [XIMP=.45:TIMP=.45]

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SWM.sum

[LOSS= 2 :CN= 73.6]  
 [Pervious area: IAper= 2.50:SLPP=\*\*\*\*:LGP= 5.:MNP=.035:SCP= .0]  
 [Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]

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#####
004:0022-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      03:4004D      .57      .100 No_date      6:00      38.76 .465
  [CN= 73.6: N= 3.00]
  [Tp= .06:DT= 5.00]
004:0023-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:401lex      .18      .033 No_date      6:00      38.76 .465
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]
004:0024-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD            01:4011A      .12      .027 No_date      6:00      55.09 n/a
                    + 04:401lex      .18      .033 No_date      6:00      38.76 n/a
  [DT= 5.00]  SUM= 05:PND1IN      .30      .060 No_date      6:00      45.29 n/a
004:0025-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE RESERVOIR -> 05:PND1IN      .30      .060 No_date      6:00      45.29 n/a
  [RDT= 1.00] out<- 06:SWM-1      .30      .012 No_date      6:05      45.29 n/a
                    overflow <= 07:OVF      .00      .000 No_date      0:00      .00 n/a
  {MxStoUsed=.6107E-02, TotovfVo1=.0000E+00, N-ovf= 0, TotDurOvf= 0.hrs}
004:0026-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD            06:SWM-1      .30      .012 No_date      6:05      45.29 n/a
                    + 07:OVF      .00      .000 No_date      0:00      .00 n/a
  [DT= 1.00]  SUM= 08:PND1OU      .30      .012 No_date      6:05      45.29 n/a
004:0027-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE RESERVOIR -> 02:4011B      .10      .024 No_date      6:00      58.23 n/a
  [RDT= 1.00] out<- 01:SWM-2      .10      .004 No_date      6:05      58.22 n/a
                    overflow <= 04:OVF      .00      .000 No_date      0:00      .00 n/a
  {MxStoUsed=.2717E-02, TotovfVo1=.0000E+00, N-ovf= 0, TotDurOvf= 0.hrs}
004:0028-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD            01:SWM-2      .10      .004 No_date      6:05      58.22 n/a
                    + 04:OVF      .00      .000 No_date      0:00      .00 n/a
  [DT= 1.00]  SUM= 07:PND2OU      .10      .004 No_date      6:05      58.22 n/a
004:0029-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD            03:4004D      .57      .100 No_date      6:00      38.76 n/a
                    + 07:PND2OU      .10      .004 No_date      6:05      58.22 n/a
                    + 08:PND1OU      .30      .012 No_date      6:05      45.29 n/a
  [DT= 1.00]  SUM= 05:4011      .97      .114 No_date      6:00      42.78 n/a
#####
#####
004:0030-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  DIVERT HYD -> 05:4011      .97      .114 No_date      6:00      42.78 n/a
                    diverted <= 02:Minor      .92      .067 No_date      6:00      42.78 n/a
                    diverted <= 03:Major      .05      .047 No_date      6:00      42.78 n/a
#####
004:0031-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL -> 03:Major      .05      .047 No_date      6:00      42.78 n/a
* [RDT= 1.00] out<- 01:4.007      .05      .028 No_date      6:01      42.78 n/a
  [L/S/n= 250./2.400/.035]
  {Vmax= .785:Dmax= .111}
004:0032-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD            09:4008.1     17.04     1.223 No_date      6:10      35.17 n/a
                    + 01:4.007      .05      .028 No_date      6:01      42.78 n/a
  [DT= 1.00]  SUM= 03:4008.1     17.09     1.232 No_date      6:10      35.20 n/a
004:0033-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      06:4006      3.37      .440 No_date      6:00      34.32 .411
  [CN= 69.1: N= 3.00]
  [Tp= .12:DT= 5.00]
004:0034-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    04:4007      5.04      1.020 No_date      6:00      51.59 .618
  [XIMP=.31:TIMP=.31]
  [LOSS= 2 :CN= 72.8]
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SWM.sum

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[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
004:0035-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 05:4008 2.42 .519 No_date 6:00 52.88 .634
[XIMP=.22:TIMP=.22]
[LOSS= 2 :CN= 79.3]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
004:0036-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD 03:4008.1 17.09 1.232 No_date 6:10 35.20 n/a
+ 04:4007 5.04 1.020 No_date 6:00 51.59 n/a
+ 05:4008 2.42 .519 No_date 6:00 52.88 n/a
+ 06:4006 3.37 .440 No_date 6:00 34.32 n/a
[DT= 1.00] SUM= 01:4008.2 27.92 3.079 No_date 6:00 39.58 n/a
004:0037-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 03:4009 5.11 1.410 No_date 6:00 74.98 .899
[XIMP=.01:TIMP=.90]
[LOSS= 2 :CN= 73.1]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]
004:0038-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD 01:4008.2 27.92 3.079 No_date 6:00 39.58 n/a
+ 03:4009 5.11 1.410 No_date 6:00 74.98 n/a
[DT= 1.00] SUM= 05:4009.2 33.03 4.489 No_date 6:00 45.06 n/a
004:0039-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD 01:6001 2.45 .294 No_date 6:00 28.87 .346
[CN= 62.8: N= 3.00]
[Tp= .09:DT= 5.00]
004:0040-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD 10:6002 11.01 1.464 No_date 6:00 39.88 .478
[CN= 74.6: N= 3.00]
[Tp= .15:DT= 5.00]
004:0041-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 03:6004 1.46 .424 No_date 6:00 73.90 .886
[XIMP=.01:TIMP=.81]
[LOSS= 2 :CN= 82.4]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
004:0042-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD 01:6001 2.45 .294 No_date 6:00 28.87 n/a
+ 10:6002 11.01 1.464 No_date 6:00 39.88 n/a
+ 03:6004 1.46 .424 No_date 6:00 73.90 n/a
[DT= 5.00] SUM= 04:6002.2 14.92 2.183 No_date 6:00 41.40 n/a
004:0043-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD 01:1001 47.64 2.652 No_date 6:15 29.87 .358
[CN= 64.0: N= 3.00]
[Tp= .38:DT= 5.00]
004:0044-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ROUTE CHANNEL -> 01:1001 47.64 2.652 No_date 6:15 29.87 n/a
[RDT= 1.67] out<- 10:1.002 47.64 2.533 No_date 6:22 29.87 n/a
[L/S/n= 402./2.240/.050]
{Vmax= 1.186:Dmax= .288}
004:0045-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
CALIB NASHYD 01:1002 4.51 .387 No_date 6:00 28.95 .347
[CN= 62.9: N= 3.00]
[Tp= .17:DT= 5.00]
004:0046-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD 10:1.002 47.64 2.533 No_date 6:22 29.87 n/a
+ 01:1002 4.51 .387 No_date 6:00 28.95 n/a
[DT= 1.67] SUM= 03:1002.2 52.15 2.704 No_date 6:18 29.79 n/a
004:0047-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD 01:1003 2.41 .292 No_date 6:00 35.60 .427
[CN= 70.4: N= 3.00]

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SWM.sum

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[Tp= .14:DT= 5.00]
004:0048-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      05:1004      1.36      .399 No_date      6:00      74.73 .896
[XIMP=.01:TIMP=.89]
[LOSS= 2 :CN= 74.0]
[Pervious area: Iaper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
004:0049-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD              01:1003      2.41      .292 No_date      6:00      35.60 n/a
                    + 03:1002.2    52.15     2.704 No_date      6:18     29.79 n/a
                    + 05:1004      1.36      .399 No_date      6:00     74.73 n/a
[DT= 1.67] SUM=     10:1004.2    55.92     2.863 No_date      6:17     31.14 n/a
004:0050-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD              04:6002.2    14.92     2.183 No_date      6:00     41.40 n/a
                    + 10:1004.2    55.92     2.863 No_date      6:17     31.14 n/a
[DT= 1.67] SUM=     01:1004.2    70.84     4.503 No_date      6:00     33.30 n/a
004:0051-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD        10:6003      5.59      .781 No_date      6:00     44.94 .539
[CN= 79.0: N= 3.00]
[Tp= .17:DT= 5.00]
004:0052-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD              01:1004.2    70.84     4.503 No_date      6:00     33.30 n/a
                    + 10:6003      5.59      .781 No_date      6:00     44.94 n/a
[DT= 1.67] SUM=     03:6003.2    76.43     5.284 No_date      6:00     34.15 n/a
004:0053-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD        01:2001    136.38     6.764 No_date      6:25     33.17 .398
[CN= 67.8: N= 3.00]
[Tp= .52:DT= 5.00]
004:0054-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL      -> 01:2001    136.38     6.764 No_date      6:25     33.17 n/a
[RDT= 1.67] out<- 10:2.002    136.38     6.026 No_date      6:40     33.17 n/a
[L/S/n= 933./1.500/.050]
{Vmax= 1.048:Dmax= .600}
004:0055-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD        01:2002      7.78      .334 No_date      6:25     28.63 .343
[CN= 62.5: N= 3.00]
[Tp= .51:DT= 5.00]
004:0056-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD              10:2.002    136.38     6.026 No_date      6:40     33.17 n/a
                    + 01:2002      7.78      .334 No_date      6:25     28.63 n/a
[DT= 1.67] SUM=     04:2001.2    144.16     6.327 No_date      6:38     32.93 n/a
004:0057-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    01:2003      .96      .279 No_date      6:00     72.14 .865
[XIMP=.01:TIMP=.86]
[LOSS= 2 :CN= 74.0]
[Pervious area: Iaper= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]
004:0058-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD              01:2003      .96      .279 No_date      6:00     72.14 n/a
                    + 04:2001.2    144.16     6.327 No_date      6:38     32.93 n/a
[DT= 1.67] SUM=     10:2002.2    145.12     6.346 No_date      6:38     33.19 n/a
004:0059-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD              10:2002.2    145.12     6.346 No_date      6:38     33.19 n/a
                    + 03:6003.2    76.43     5.284 No_date      6:00     34.15 n/a
[DT= 1.67] SUM=     01:2002.2    221.55     9.366 No_date      6:30     33.52 n/a
004:0060-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      10:7001      3.11      .379 No_date      6:00     30.08 .361
[CN= 64.3: N= 3.00]
[Tp= .10:DT= 5.00]
004:0061-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD              01:2002.2    221.55     9.366 No_date      6:30     33.52 n/a
                    + 10:7001      3.11      .379 No_date      6:00     30.08 n/a
[DT= 1.67] SUM=     03:7001.2    224.66     9.434 No_date      6:30     33.47 n/a

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SWM. sum									
ID	NHYD	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.			
004:0062	-----	-----	-----	-----	-----	-----			
* CALIB STANDHYD	01:2004	2.28	.420	No_date 6:00	43.67	.524			
[XIMP=.01:TIMP=.40]									
[LOSS= 2 :CN= 68.0]									
[Pervious area: Iaper= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]									
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]									
004:0063	-----	-----	-----	-----	-----	-----			
ADD HYD	01:2004	2.28	.420	No_date 6:00	43.67	n/a			
	+ 03:7001.2	224.66	9.434	No_date 6:30	33.47	n/a			
[DT= 1.67]	SUM= 10:2004.2	226.94	9.503	No_date 6:30	33.57	n/a			
004:0064	-----	-----	-----	-----	-----	-----			
CALIB NASHYD	01:3001	78.24	3.668	No_date 6:20	28.13	.337			
[CN= 61.9: N= 3.00]									
[Tp= .44:DT= 5.00]									
004:0065	-----	-----	-----	-----	-----	-----			
ROUTE CHANNEL ->	01:3001	78.24	3.668	No_date 6:20	28.13	n/a			
[RDT= 1.67] out<-	03:3.002	78.24	3.605	No_date 6:23	28.13	n/a			
[L/S/n= 1097./9.080/.050]									
{Vmax= 4.589:Dmax= .047}									
004:0066	-----	-----	-----	-----	-----	-----			
CALIB NASHYD	01:3002	9.19	.449	No_date 6:25	33.15	.397			
[CN= 67.8: N= 3.00]									
[Tp= .53:DT= 5.00]									
004:0067	-----	-----	-----	-----	-----	-----			
ADD HYD	01:3002	9.19	.449	No_date 6:25	33.15	n/a			
	+ 03:3.002	78.24	3.605	No_date 6:23	28.13	n/a			
[DT= 1.67]	SUM= 04:3002.2	87.43	4.051	No_date 6:23	28.66	n/a			
004:0068	-----	-----	-----	-----	-----	-----			
* CALIB NASHYD	01:3010	4.15	.465	No_date 6:00	28.63	.343			
[CN= 62.5: N= 3.00]									
[Tp= .11:DT= 5.00]									
004:0069	-----	-----	-----	-----	-----	-----			
ADD HYD	01:3010	4.15	.465	No_date 6:00	28.63	n/a			
	+ 04:3002.2	87.43	4.051	No_date 6:23	28.66	n/a			
[DT= 1.67]	SUM= 03:3010.2	91.58	4.143	No_date 6:23	28.66	n/a			
004:0070	-----	-----	-----	-----	-----	-----			
* CALIB STANDHYD	01:3003	1.99	.435	No_date 6:00	56.81	.681			
[XIMP=.48:TIMP=.48]									
[LOSS= 2 :CN= 67.8]									
[Pervious area: Iaper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]									
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]									
004:0071	-----	-----	-----	-----	-----	-----			
* CALIB STANDHYD	04:3004	.40	.101	No_date 6:00	66.99	.803			
[XIMP=.70:TIMP=.70]									
[LOSS= 2 :CN= 64.5]									
[Pervious area: Iaper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]									
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]									
004:0072	-----	-----	-----	-----	-----	-----			
ADD HYD	01:3003	1.99	.435	No_date 6:00	56.81	n/a			
	+ 04:3004	.40	.101	No_date 6:00	66.99	n/a			
[DT= 5.00]	SUM= 05:3004.2	2.39	.535	No_date 6:00	58.51	n/a			
004:0073	-----	-----	-----	-----	-----	-----			
* CALIB STANDHYD	01:3005	2.80	.535	No_date 6:00	48.87	.586			
[XIMP=.01:TIMP=.59]									
[LOSS= 2 :CN= 64.5]									
[Pervious area: Iaper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]									
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]									
004:0074	-----	-----	-----	-----	-----	-----			
ADD HYD	01:3005	2.80	.535	No_date 6:00	48.87	n/a			
	+ 02:Minor	.92	.067	No_date 6:00	42.78	n/a			
	+ 05:3004.2	2.39	.535	No_date 6:00	58.51	n/a			
[DT= 1.00]	SUM= 04:3005.2	6.11	1.138	No_date 6:00	51.72	n/a			
004:0075	-----	-----	-----	-----	-----	-----			

		SWM. sum						
ADD HYD		03:3010.2	91.58	4.143	No_date	6:23	28.66	n/a
	+	04:3005.2	6.11	1.138	No_date	6:00	51.72	n/a
[DT= 1.00]	SUM=	01:3005.2	97.69	4.361	No_date	6:23	30.10	n/a
004:0076	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
* CALIB STANDHYD		03:3006	1.12	.312	No_date	6:00	67.15	.805
		[XIMP=.01:TIMP=.86]						
		[LOSS= 2 :CN= 64.5]						
		[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]						
		[Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]						
004:0077	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
ADD HYD		01:3005.2	97.69	4.361	No_date	6:23	30.10	n/a
	+	03:3006	1.12	.312	No_date	6:00	67.15	n/a
[DT= 1.00]	SUM=	04:3005.2	98.81	4.405	No_date	6:23	30.52	n/a
004:0078	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
* CALIB STANDHYD		01:3009	1.93	.543	No_date	6:00	71.63	.859
		[XIMP=.01:TIMP=.90]						
		[LOSS= 2 :CN= 64.5]						
		[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]						
		[Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]						
004:0079	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
ADD HYD		01:3009	1.93	.543	No_date	6:00	71.63	n/a
	+	04:3005.2	98.81	4.405	No_date	6:23	30.52	n/a
[DT= 1.00]	SUM=	03:3009.2	100.74	4.485	No_date	6:23	31.31	n/a
004:0080	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
ADD HYD		10:2004.2	226.94	9.503	No_date	6:30	33.57	n/a
	+	03:3009.2	100.74	4.485	No_date	6:23	31.31	n/a
[DT= 1.00]	SUM=	01:3009.2	327.68	13.883	No_date	6:28	32.88	n/a
004:0081	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
* CALIB STANDHYD		02:3007	2.08	.414	No_date	6:00	46.65	.559
		[XIMP=.01:TIMP=.36]						
		[LOSS= 2 :CN= 72.4]						
		[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]						
		[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]						
004:0082	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
ADD HYD		01:3009.2	327.68	13.883	No_date	6:28	32.88	n/a
	+	02:3007	2.08	.414	No_date	6:00	46.65	n/a
[DT= 1.00]	SUM=	03:3007.2	329.76	13.950	No_date	6:28	32.96	n/a
004:0083	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
* CALIB NASHYD		01:2005	2.85	.714	No_date	6:00	56.53	.678
		[CN= 87.3: N= 3.00]						
		[Tp= .05:DT= 5.00]						
004:0084	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
ADD HYD		01:2005	2.85	.714	No_date	6:00	56.53	n/a
	+	03:3007.2	329.76	13.950	No_date	6:28	32.96	n/a
[DT= 1.00]	SUM=	02:2005.2	332.61	14.052	No_date	6:28	33.16	n/a
004:0085	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
* CALIB STANDHYD		01:3008	1.61	.334	No_date	6:00	49.74	.596
		[XIMP=.01:TIMP=.40]						
		[LOSS= 2 :CN= 74.3]						
		[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]						
		[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]						
004:0086	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
ADD HYD		01:3008	1.61	.334	No_date	6:00	49.74	n/a
	+	02:2005.2	332.61	14.052	No_date	6:28	33.16	n/a
[DT= 1.00]	SUM=	03:3008.2	334.22	14.107	No_date	6:28	33.24	n/a
004:0087	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
CALIB NASHYD		01:5001	62.50	1.043	No_date	6:20	10.00	.120
		[CN= 30.1: N= 3.00]						
		[Tp= .41:DT= 5.00]						
004:0088	-----	ID:NHYD	-----	AREA	-----	QPEAK	TpeakDate_hh:mm	-----R.V.-R.C.-
ROUTE CHANNEL	->	01:5001	62.50	1.043	No_date	6:20	10.00	n/a
[RDT= 1.67] out<-		02:5.002	62.50	.959	No_date	6:28	10.00	n/a
[L/S/n= 912./2.030/.050]								

SWM.sum

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{Vmax= 1.544:Dmax= .035}
004:0089-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      03:5002      14.10      .376 No_date    6:05    11.65 .140
  [CN= 34.0: N= 3.00]
  [Tp= .25:DT= 5.00]
004:0090-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:5004       3.48       .605 No_date    6:00    43.69 .524
  [CN= 78.0: N= 3.00]
  [Tp= .10:DT= 5.00]
004:0091-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           02:5.002      62.50       .959 No_date    6:28    10.00 n/a
                   + 03:5002      14.10       .376 No_date    6:05    11.65 n/a
                   + 04:5004       3.48       .605 No_date    6:00    43.69 n/a
  [DT= 1.67]  SUM= 05:5002.2    80.08      1.308 No_date    6:22    11.75 n/a
004:0092-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      01:5003       2.65       .244 No_date    6:00    27.46 .329
  [CN= 61.0: N= 3.00]
  [Tp= .14:DT= 5.00]
004:0093-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           01:5003       2.65       .244 No_date    6:00    27.46 n/a
                   + 05:5002.2    80.08      1.308 No_date    6:22    11.75 n/a
  [DT= 1.67]  SUM= 02:5003.2    82.73      1.518 No_date    6:05    12.25 n/a
004:0094-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    01:SWALE       .50        .149 No_date    6:00    80.64 .967
  [XIMP=.95:TIMP=.95]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
** END OF RUN : 4

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RUN:COMMAND#

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005:0001-----
START
  [TZERO = .00 hrs on 0]
  [METOUT= 2 (1=imperial, 2=metric output)]
  [NSTORM= 1 ]
  [NRUN = 5 ]
#*****
# Project Name: [Waterdown Road] Project Number: [107016] *
# Date : 09-14-2007 *
# Modeller : [KB] *
# Company : Philips Engineering Ltd *
# License # : 3569108 *
#*****
005:0002-----
READ STORM
  Filename = STORM.001
  Comment = 50 Year SCS 12 hour City of Burlington (2004)
  [SDT=10.00:SDUR= 12.00:PTOT= 93.50]
005:0003-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      01:4001       5.28       .576 No_date    6:05    37.91 .405
  [CN= 65.9: N= 3.00]
  [Tp= .19:DT= 5.00]
005:0004-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL -> 01:4001 5.28 .576 No_date 6:05 37.91 n/a
  [RDT= 1.67] out<- 02:4.003 5.28 .417 No_date 6:13 37.91 n/a
  [L/S/n= 475./1.260/.050]

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SWM.sum

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{Vmax= .561:Dmax= .222}
005:0005-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      03:4003      3.13      .241 No_date    6:10    34.73 .371
  [CN= 62.6: N= 3.00]
  [Tp= .29:DT= 5.00]
005:0006-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      04:4002      6.34      .769 No_date    6:05    46.11 .493
  [CN= 73.5: N= 3.00]
  [Tp= .23:DT= 5.00]
005:0007-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           02:4.003      5.28      .417 No_date    6:13    37.91 n/a
                   + 03:4003      3.13      .241 No_date    6:10    34.73 n/a
                   + 04:4002      6.34      .769 No_date    6:05    46.11 n/a
  [DT= 1.67] SUM= 05:4003.2  14.75    1.371 No_date    6:08    40.76 n/a
005:0008-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL    -> 05:4003.2  14.75    1.371 No_date    6:08    40.76 n/a
* [RDT= 1.67] out<- 01:4.006  14.75    1.333 No_date    6:12    40.76 n/a
  [L/S/n= 357./5.040/.050]
  {Vmax= 1.630:Dmax= .059}
005:0009-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    02:4004A      .10      .022 No_date    6:00    46.20 .494
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]
005:0010-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    03:4004B      .36      .077 No_date    6:00    46.20 .494
  [CN= 73.6: N= 3.00]
  [Tp= .05:DT= 5.00]
005:0011-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    04:4004C      1.13      .204 No_date    6:00    46.20 .494
  [CN= 73.6: N= 3.00]
  [Tp= .11:DT= 5.00]
#####
# NEW FELLOWSHIP CHURCH - WEST DRAINAGE TO GRINDSTONE TRIB 4 #
#####
005:0012-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 05:4010A      .35      .103 No_date    6:00    75.41 .806
  [XIMP=.63:TIMP=.63]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=1.00:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.00:LGI= 30.:MNI=.013:SCI= .0]
005:0013-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD    06:4010B      .21      .045 No_date    6:00    46.20 .494
  [CN= 73.6: N= 3.00]
  [Tp= .04:DT= 5.00]
005:0014-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 07:4010C      .14      .036 No_date    6:00    62.57 .669
  [XIMP=.36:TIMP=.36]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 20.:MNI=.013:SCI= .0]
#####
005:0015-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           05:4010A      .35      .103 No_date    6:00    75.41 n/a
                   + 07:4010C      .14      .036 No_date    6:00    62.57 n/a
  [DT= 5.00] SUM= 08:PND3IN  .49      .140 No_date    6:00    71.74 n/a
005:0016-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE RESERVOIR -> 08:PND3IN  .49      .140 No_date    6:00    71.74 n/a
* [RDT= 1.00] out<- 07:SWM-3  .49      .053 No_date    6:04    66.81 n/a
  overflow <= 09:OVF      .00      .000 No_date    0:00     .00 n/a
  {MxStoUsed=.1955E-01, TotovfVo]=.0000E+00, N-ovf= 0, TotDurOvf= 0.hrs}
005:0017-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD           07:SWM-3      .49      .053 No_date    6:04    66.81 n/a
                   + 09:OVF      .00      .000 No_date    0:00     .00 n/a

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                                SWM.sum
[DT= 1.00]  SUM= 05:PND3OU          .49      .053 No_date  6:04  66.81 n/a
005:0018-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          05:PND3OU          .49      .053 No_date  6:04  66.81 n/a
                + 06:4010B          .21      .045 No_date  6:00  46.20 n/a
[DT= 1.00]  SUM= 08:WestSi          .70      .090 No_date  6:00  60.62 n/a
005:0019-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:4.006         14.75    1.333 No_date  6:12  40.76 n/a
                + 02:4004A          .10      .022 No_date  6:00  46.20 n/a
                + 03:4004B          .36      .077 No_date  6:00  46.20 n/a
                + 04:4004C          1.13     .204 No_date  6:00  46.20 n/a
                + 08:WestSi          .70      .090 No_date  6:00  60.62 n/a
[DT= 1.00]  SUM= 09:4008.1         17.04    1.475 No_date  6:10  42.08 n/a
#####
# NEW FELLOWSHIP CHURCH - EAST MAJOR DRAINAGE TO GRINDSTONE TRIB 4 #
#####
005:0020-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:4011A          .12      .032 No_date  6:00  63.52 .679
[XIMP=.38:TIMP=.38]
[LOSS= 2 :CN= 73.6]
[Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
005:0021-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 02:4011B          .10      .027 No_date  6:00  66.85 .715
[XIMP=.45:TIMP=.45]
[LOSS= 2 :CN= 73.6]
[Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
#####
005:0022-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   03:4004D          .57      .119 No_date  6:00  46.20 .494
[CN= 73.6: N= 3.00]
[Tp= .06:DT= 5.00]
005:0023-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   04:4011ex         .18      .039 No_date  6:00  46.20 .494
[CN= 73.6: N= 3.00]
[Tp= .03:DT= 5.00]
005:0024-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:4011A          .12      .032 No_date  6:00  63.52 n/a
                + 04:4011ex         .18      .039 No_date  6:00  46.20 n/a
[DT= 5.00]  SUM= 05:PND1IN          .30      .070 No_date  6:00  53.13 n/a
005:0025-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE RESERVOIR -> 05:PND1IN          .30      .070 No_date  6:00  53.13 n/a
[RDT= 1.00] out<- 06:SWM-1          .30      .015 No_date  6:05  53.13 n/a
overflow <= 07:OVF          .00      .000 No_date  0:00   .00 n/a
{MxStoUsed=.7203E-02, TotovfVol=.0000E+00, N-ovf= 0, TotDurOvf= 0.hrs}
005:0026-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          06:SWM-1          .30      .015 No_date  6:05  53.13 n/a
                + 07:OVF          .00      .000 No_date  0:00   .00 n/a
[DT= 1.00]  SUM= 08:PND1OU          .30      .015 No_date  6:05  53.13 n/a
005:0027-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE RESERVOIR -> 02:4011B          .10      .027 No_date  6:00  66.85 n/a
[RDT= 1.00] out<- 01:SWM-2          .10      .004 No_date  6:05  66.85 n/a
overflow <= 04:OVF          .00      .000 No_date  0:00   .00 n/a
{MxStoUsed=.3150E-02, TotovfVol=.0000E+00, N-ovf= 0, TotDurOvf= 0.hrs}
005:0028-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:SWM-2          .10      .004 No_date  6:05  66.85 n/a
                + 04:OVF          .00      .000 No_date  0:00   .00 n/a
[DT= 1.00]  SUM= 07:PND2OU          .10      .004 No_date  6:05  66.85 n/a
005:0029-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          03:4004D          .57      .119 No_date  6:00  46.20 n/a
                + 07:PND2OU          .10      .004 No_date  6:05  66.85 n/a
                + 08:PND1OU          .30      .015 No_date  6:05  53.13 n/a
[DT= 1.00]  SUM= 05:4011          .97      .136 No_date  6:00  50.47 n/a

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SWM.sum

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#####
#####
005:0030-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  DIVERT HYD      -> 05:4011      .97      .136 No_date  6:00  50.47  n/a
    diverted <= 02:Minor      .90      .067 No_date  6:00  50.47  n/a
    diverted <= 03:Major      .07      .069 No_date  6:00  50.47  n/a
#####
005:0031-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL  -> 03:Major      .07      .069 No_date  6:00  50.47  n/a
* [RDT= 1.00] out<- 01:4.007      .07      .049 No_date  6:01  50.47  n/a
  [L/S/n= 250./2.400/.035]
  {Vmax= .853:Dmax= .132}
005:0032-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD        09:4008.1      17.04     1.475 No_date  6:10  42.08  n/a
    + 01:4.007      .07      .049 No_date  6:01  50.47  n/a
  [DT= 1.00] SUM= 03:4008.1      17.11     1.489 No_date  6:09  42.12  n/a
005:0033-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   06:4006      3.37      .528 No_date  6:00  41.17  .440
  [CN= 69.1: N= 3.00]
  [Tp= .12:DT= 5.00]
005:0034-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 04:4007      5.04      1.191 No_date  6:00  59.77  .639
  [XIMP=.31:TIMP=.31]
  [LOSS= 2 :CN= 72.8]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
005:0035-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 05:4008      2.42      .607 No_date  6:00  61.48  .657
  [XIMP=.22:TIMP=.22]
  [LOSS= 2 :CN= 79.3]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
005:0036-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD        03:4008.1      17.11     1.489 No_date  6:09  42.12  n/a
    + 04:4007      5.04      1.191 No_date  6:00  59.77  n/a
    + 05:4008      2.42      .607 No_date  6:00  61.48  n/a
    + 06:4006      3.37      .528 No_date  6:00  41.17  n/a
  [DT= 1.00] SUM= 01:4008.2      27.94     3.675 No_date  6:00  46.87  n/a
005:0037-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 03:4009      5.11      1.600 No_date  6:00  84.98  .909
  [XIMP=.01:TIMP=.90]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]
005:0038-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD        01:4008.2      27.94     3.675 No_date  6:00  46.87  n/a
    + 03:4009      5.11      1.600 No_date  6:00  84.98  n/a
  [DT= 1.00] SUM= 05:4009.2      33.05     5.275 No_date  6:00  52.76  n/a
005:0039-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   01:6001      2.45      .356 No_date  6:00  34.91  .373
  [CN= 62.8: N= 3.00]
  [Tp= .09:DT= 5.00]
005:0040-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   10:6002      11.01     1.746 No_date  6:00  47.46  .508
  [CN= 74.6: N= 3.00]
  [Tp= .15:DT= 5.00]
005:0041-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 03:6004      1.46      .480 No_date  6:00  83.88  .897
  [XIMP=.01:TIMP=.81]
  [LOSS= 2 :CN= 82.4]
  [Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
005:0042-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
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		SWM. sum							
ADD HYD	01:6001	2.45	.356	No_date	6:00	34.91	n/a		
	+ 10:6002	11.01	1.746	No_date	6:00	47.46	n/a		
	+ 03:6004	1.46	.480	No_date	6:00	83.88	n/a		
[DT= 5.00] SUM=	04:6002.2	14.92	2.582	No_date	6:00	48.97	n/a		
005:0043	-----ID:NHYD-----	AREA-----	QPEAK-----	TpeakDate_hh:mm-----	R.V.-R.C.-				
CALIB NASHYD	01:1001	47.64	3.216	No_date	6:15	36.07	.386		
[CN= 64.0: N= 3.00]									
[Tp= .38:DT= 5.00]									
005:0044	-----ID:NHYD-----	AREA-----	QPEAK-----	TpeakDate_hh:mm-----	R.V.-R.C.-				
ROUTE CHANNEL ->	01:1001	47.64	3.216	No_date	6:15	36.07	n/a		
[RDT= 1.67] out<-	10:1.002	47.64	3.071	No_date	6:22	36.07	n/a		
[L/S/n= 402./2.240/.050]									
{Vmax= 1.186:Dmax= .350}									
005:0045	-----ID:NHYD-----	AREA-----	QPEAK-----	TpeakDate_hh:mm-----	R.V.-R.C.-				
CALIB NASHYD	01:1002	4.51	.470	No_date	6:00	35.00	.374		
[CN= 62.9: N= 3.00]									
[Tp= .17:DT= 5.00]									
005:0046	-----ID:NHYD-----	AREA-----	QPEAK-----	TpeakDate_hh:mm-----	R.V.-R.C.-				
ADD HYD	10:1.002	47.64	3.071	No_date	6:22	36.07	n/a		
	+ 01:1002	4.51	.470	No_date	6:00	35.00	n/a		
[DT= 1.67] SUM=	03:1002.2	52.15	3.279	No_date	6:18	35.98	n/a		
005:0047	-----ID:NHYD-----	AREA-----	QPEAK-----	TpeakDate_hh:mm-----	R.V.-R.C.-				
* CALIB NASHYD	01:1003	2.41	.350	No_date	6:00	42.63	.456		
[CN= 70.4: N= 3.00]									
[Tp= .14:DT= 5.00]									
005:0048	-----ID:NHYD-----	AREA-----	QPEAK-----	TpeakDate_hh:mm-----	R.V.-R.C.-				
* CALIB STANDHYD	05:1004	1.36	.450	No_date	6:00	84.73	.906		
[XIMP=.01:TIMP=.89]									
[LOSS= 2 :CN= 74.0]									
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]									
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]									
005:0049	-----ID:NHYD-----	AREA-----	QPEAK-----	TpeakDate_hh:mm-----	R.V.-R.C.-				
ADD HYD	01:1003	2.41	.350	No_date	6:00	42.63	n/a		
	+ 03:1002.2	52.15	3.279	No_date	6:18	35.98	n/a		
	+ 05:1004	1.36	.450	No_date	6:00	84.73	n/a		
[DT= 1.67] SUM=	10:1004.2	55.92	3.466	No_date	6:17	37.45	n/a		
005:0050	-----ID:NHYD-----	AREA-----	QPEAK-----	TpeakDate_hh:mm-----	R.V.-R.C.-				
ADD HYD	04:6002.2	14.92	2.582	No_date	6:00	48.97	n/a		
	+ 10:1004.2	55.92	3.466	No_date	6:17	37.45	n/a		
[DT= 1.67] SUM=	01:1004.2	70.84	5.374	No_date	6:00	39.87	n/a		
005:0051	-----ID:NHYD-----	AREA-----	QPEAK-----	TpeakDate_hh:mm-----	R.V.-R.C.-				
CALIB NASHYD	10:6003	5.59	.925	No_date	6:00	53.10	.568		
[CN= 79.0: N= 3.00]									
[Tp= .17:DT= 5.00]									
005:0052	-----ID:NHYD-----	AREA-----	QPEAK-----	TpeakDate_hh:mm-----	R.V.-R.C.-				
ADD HYD	01:1004.2	70.84	5.374	No_date	6:00	39.87	n/a		
	+ 10:6003	5.59	.925	No_date	6:00	53.10	n/a		
[DT= 1.67] SUM=	03:6003.2	76.43	6.299	No_date	6:00	40.84	n/a		
005:0053	-----ID:NHYD-----	AREA-----	QPEAK-----	TpeakDate_hh:mm-----	R.V.-R.C.-				
CALIB NASHYD	01:2001	136.38	8.163	No_date	6:25	39.86	.426		
[CN= 67.8: N= 3.00]									
[Tp= .52:DT= 5.00]									
005:0054	-----ID:NHYD-----	AREA-----	QPEAK-----	TpeakDate_hh:mm-----	R.V.-R.C.-				
ROUTE CHANNEL ->	01:2001	136.38	8.163	No_date	6:25	39.86	n/a		
[RDT= 1.67] out<-	10:2.002	136.38	7.317	No_date	6:38	39.86	n/a		
[L/S/n= 933./1.500/.050]									
{Vmax= 1.082:Dmax= .639}									
005:0055	-----ID:NHYD-----	AREA-----	QPEAK-----	TpeakDate_hh:mm-----	R.V.-R.C.-				
CALIB NASHYD	01:2002	7.78	.406	No_date	6:25	34.63	.370		
[CN= 62.5: N= 3.00]									
[Tp= .51:DT= 5.00]									
005:0056	-----ID:NHYD-----	AREA-----	QPEAK-----	TpeakDate_hh:mm-----	R.V.-R.C.-				
ADD HYD	10:2.002	136.38	7.317	No_date	6:38	39.86	n/a		

		SWM. sum							
		+ 01:2002	7.78	.406	No_date	6:25	34.63	n/a	
	[DT= 1.67] SUM=	04:2001.2	144.16	7.685	No_date	6:38	39.58	n/a	
005:0057	-----ID:NHYD-----	AREA-----	QPEAK	TpeakDate_hh:mm	-----R.V.	-----R.C.	-----	-----	-----
*	CALIB STANDHYD	01:2003	.96	.316	No_date	6:00	82.07	.878	
	[XIMP=.01:TIMP=.86]								
	[LOSS= 2 :CN= 74.0]								
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]								
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]								
005:0058	-----ID:NHYD-----	AREA-----	QPEAK	TpeakDate_hh:mm	-----R.V.	-----R.C.	-----	-----	-----
	ADD HYD	01:2003	.96	.316	No_date	6:00	82.07	n/a	
		+ 04:2001.2	144.16	7.685	No_date	6:38	39.58	n/a	
	[DT= 1.67] SUM=	10:2002.2	145.12	7.706	No_date	6:38	39.86	n/a	
005:0059	-----ID:NHYD-----	AREA-----	QPEAK	TpeakDate_hh:mm	-----R.V.	-----R.C.	-----	-----	-----
	ADD HYD	10:2002.2	145.12	7.706	No_date	6:38	39.86	n/a	
		+ 03:6003.2	76.43	6.299	No_date	6:00	40.84	n/a	
	[DT= 1.67] SUM=	01:2002.2	221.55	11.374	No_date	6:30	40.20	n/a	
005:0060	-----ID:NHYD-----	AREA-----	QPEAK	TpeakDate_hh:mm	-----R.V.	-----R.C.	-----	-----	-----
*	CALIB NASHYD	10:7001	3.11	.458	No_date	6:00	36.31	.388	
	[CN= 64.3: N= 3.00]								
	[Tp= .10:DT= 5.00]								
005:0061	-----ID:NHYD-----	AREA-----	QPEAK	TpeakDate_hh:mm	-----R.V.	-----R.C.	-----	-----	-----
	ADD HYD	01:2002.2	221.55	11.374	No_date	6:30	40.20	n/a	
		+ 10:7001	3.11	.458	No_date	6:00	36.31	n/a	
	[DT= 1.67] SUM=	03:7001.2	224.66	11.456	No_date	6:30	40.14	n/a	
005:0062	-----ID:NHYD-----	AREA-----	QPEAK	TpeakDate_hh:mm	-----R.V.	-----R.C.	-----	-----	-----
*	CALIB STANDHYD	01:2004	2.28	.500	No_date	6:00	51.68	.553	
	[XIMP=.01:TIMP=.40]								
	[LOSS= 2 :CN= 68.0]								
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]								
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]								
005:0063	-----ID:NHYD-----	AREA-----	QPEAK	TpeakDate_hh:mm	-----R.V.	-----R.C.	-----	-----	-----
	ADD HYD	01:2004	2.28	.500	No_date	6:00	51.68	n/a	
		+ 03:7001.2	224.66	11.456	No_date	6:30	40.14	n/a	
	[DT= 1.67] SUM=	10:2004.2	226.94	11.536	No_date	6:30	40.26	n/a	
005:0064	-----ID:NHYD-----	AREA-----	QPEAK	TpeakDate_hh:mm	-----R.V.	-----R.C.	-----	-----	-----
	CALIB NASHYD	01:3001	78.24	4.459	No_date	6:20	34.05	.364	
	[CN= 61.9: N= 3.00]								
	[Tp= .44:DT= 5.00]								
005:0065	-----ID:NHYD-----	AREA-----	QPEAK	TpeakDate_hh:mm	-----R.V.	-----R.C.	-----	-----	-----
	ROUTE CHANNEL ->	01:3001	78.24	4.459	No_date	6:20	34.05	n/a	
	[RDT= 1.67] out<-	03:3.002	78.24	4.383	No_date	6:23	34.05	n/a	
	[L/s/n= 1097./9.080/.050]								
	{Vmax= 4.589:Dmax= .057}								
005:0066	-----ID:NHYD-----	AREA-----	QPEAK	TpeakDate_hh:mm	-----R.V.	-----R.C.	-----	-----	-----
	CALIB NASHYD	01:3002	9.19	.542	No_date	6:25	39.84	.426	
	[CN= 67.8: N= 3.00]								
	[Tp= .53:DT= 5.00]								
005:0067	-----ID:NHYD-----	AREA-----	QPEAK	TpeakDate_hh:mm	-----R.V.	-----R.C.	-----	-----	-----
	ADD HYD	01:3002	9.19	.542	No_date	6:25	39.84	n/a	
		+ 03:3.002	78.24	4.383	No_date	6:23	34.05	n/a	
	[DT= 1.67] SUM=	04:3002.2	87.43	4.922	No_date	6:23	34.66	n/a	
005:0068	-----ID:NHYD-----	AREA-----	QPEAK	TpeakDate_hh:mm	-----R.V.	-----R.C.	-----	-----	-----
*	CALIB NASHYD	01:3010	4.15	.563	No_date	6:00	34.63	.370	
	[CN= 62.5: N= 3.00]								
	[Tp= .11:DT= 5.00]								
005:0069	-----ID:NHYD-----	AREA-----	QPEAK	TpeakDate_hh:mm	-----R.V.	-----R.C.	-----	-----	-----
	ADD HYD	01:3010	4.15	.563	No_date	6:00	34.63	n/a	
		+ 04:3002.2	87.43	4.922	No_date	6:23	34.66	n/a	
	[DT= 1.67] SUM=	03:3010.2	91.58	5.032	No_date	6:23	34.66	n/a	
005:0070	-----ID:NHYD-----	AREA-----	QPEAK	TpeakDate_hh:mm	-----R.V.	-----R.C.	-----	-----	-----
*	CALIB STANDHYD	01:3003	1.99	.501	No_date	6:00	65.13	.696	
	[XIMP=.48:TIMP=.48]								
	[LOSS= 2 :CN= 67.8]								

SWM.sum

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[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]
005:0071-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 04:3004 .40 .115 No_date 6:00 75.93 .812
[XIMP=.70:TIMP=.70]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]
005:0072-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 01:3003 1.99 .501 No_date 6:00 65.13 n/a
+ 04:3004 .40 .115 No_date 6:00 75.93 n/a
[DT= 5.00] SUM= 05:3004.2 2.39 .616 No_date 6:00 66.93 n/a
005:0073-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3005 2.80 .634 No_date 6:00 57.39 .614
[XIMP=.01:TIMP=.59]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]
005:0074-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 01:3005 2.80 .634 No_date 6:00 57.39 n/a
+ 02:Minor .90 .067 No_date 6:00 50.47 n/a
+ 05:3004.2 2.39 .616 No_date 6:00 66.93 n/a
[DT= 1.00] SUM= 04:3005.2 6.09 1.317 No_date 6:00 60.11 n/a
005:0075-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 03:3010.2 91.58 5.032 No_date 6:23 34.66 n/a
+ 04:3005.2 6.09 1.317 No_date 6:00 60.11 n/a
[DT= 1.00] SUM= 01:3005.2 97.67 5.281 No_date 6:23 36.24 n/a
005:0076-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 03:3006 1.12 .355 No_date 6:00 76.91 .822
[XIMP=.01:TIMP=.86]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]
005:0077-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 01:3005.2 97.67 5.281 No_date 6:23 36.24 n/a
+ 03:3006 1.12 .355 No_date 6:00 76.91 n/a
[DT= 1.00] SUM= 04:3005.2 98.79 5.331 No_date 6:23 36.71 n/a
005:0078-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3009 1.93 .617 No_date 6:00 81.54 .872
[XIMP=.01:TIMP=.90]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]
005:0079-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 01:3009 1.93 .617 No_date 6:00 81.54 n/a
+ 04:3005.2 98.79 5.331 No_date 6:23 36.71 n/a
[DT= 1.00] SUM= 03:3009.2 100.72 5.421 No_date 6:23 37.56 n/a
005:0080-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 10:2004.2 226.94 11.536 No_date 6:30 40.26 n/a
+ 03:3009.2 100.72 5.421 No_date 6:23 37.56 n/a
[DT= 1.00] SUM= 01:3009.2 327.66 16.836 No_date 6:28 39.43 n/a
005:0081-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 02:3007 2.08 .489 No_date 6:00 54.99 .588
[XIMP=.01:TIMP=.36]
[LOSS= 2 :CN= 72.4]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
005:0082-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 01:3009.2 327.66 16.836 No_date 6:28 39.43 n/a
+ 02:3007 2.08 .489 No_date 6:00 54.99 n/a
[DT= 1.00] SUM= 03:3007.2 329.74 16.912 No_date 6:28 39.53 n/a
005:0083-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD 01:2005 2.85 .823 No_date 6:00 65.73 .703

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SWM.sum

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[CN= 87.3: N= 3.00]
[TP= .05:DT= 5.00]
005:0084-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:2005          2.85      .823 No_date  6:00  65.73 n/a
                + 03:3007.2    329.74    16.912 No_date  6:28  39.53 n/a
[DT= 1.00] SUM= 02:2005.2    332.59    17.030 No_date  6:28  39.75 n/a
005:0085-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3008          1.61      .393 No_date  6:00  58.37 .624
[XIMP=.01:TIMP=.40]
[LOSS= 2 :CN= 74.3]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
005:0086-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3008          1.61      .393 No_date  6:00  58.37 n/a
                + 02:2005.2    332.59    17.030 No_date  6:28  39.75 n/a
[DT= 1.00] SUM= 03:3008.2    334.20    17.093 No_date  6:28  39.84 n/a
005:0087-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:5001          62.50     1.299 No_date  6:20  12.42 .133
[CN= 30.1: N= 3.00]
[TP= .41:DT= 5.00]
005:0088-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL   -> 01:5001          62.50     1.299 No_date  6:20  12.42 n/a
[RDT= 1.67] out<- 02:5.002        62.50     1.195 No_date  6:28  12.42 n/a
[L/S/n= 912./2.030/.050]
{Vmax= 1.544:Dmax= .043}
005:0089-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     03:5002          14.10     .468 No_date  6:05  14.44 .154
[CN= 34.0: N= 3.00]
[TP= .25:DT= 5.00]
005:0090-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   04:5004          3.48      .715 No_date  6:00  51.73 .553
[CN= 78.0: N= 3.00]
[TP= .10:DT= 5.00]
005:0091-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          02:5.002          62.50     1.195 No_date  6:28  12.42 n/a
                + 03:5002          14.10     .468 No_date  6:05  14.44 n/a
                + 04:5004          3.48      .715 No_date  6:00  51.73 n/a
[DT= 1.67] SUM= 05:5002.2    80.08     2.424 No_date  14:52  14.79 n/a
005:0092-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   01:5003          2.65      .297 No_date  6:00  33.27 .356
[CN= 61.0: N= 3.00]
[TP= .14:DT= 5.00]
005:0093-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:5003          2.65      .297 No_date  6:00  33.27 n/a
                + 05:5002.2    80.08     2.424 No_date  14:52  14.79 n/a
[DT= 1.67] SUM= 02:5003.2    82.73     2.424 No_date  14:52  15.38 n/a
005:0094-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:SWALE          .50       .168 No_date  6:00  90.60 .969
[XIMP=.95:TIMP=.95]
[LOSS= 2 :CN= 73.1]
[Pervious area: IAper= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
** END OF RUN : 5

```

\*\*\*\*\*

```

RUN: COMMAND#
006:0001-----
START

```

SWM.sum

[TZERO = .00 hrs on 0]
[METOUT= 2 (1=imperial, 2=metric output)]
[NSTORM= 1 ]
[NRUN = 6 ]

\*\*\*\*\*
# Project Name: [Waterdown Road] Project Number: [107016] \*
# Date : 09-14-2007 \*
# Modeller : [KB] \*
# Company : Philips Engineering Ltd \*
# License # : 3569108 \*
\*\*\*\*\*

006:0002-----
READ STORM

Filename = STORM.001
Comment = 100 Year SCS 12 hour City of Burlington (2004)
[SDT=10.00:SDUR= 12.00:PTOT= 103.61]

006:0003-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-
CALIB NASHYD 01:4001 5.28 .680 No\_date 6:05 44.68 .431
[CN= 65.9: N= 3.00]
[Tp= .19:DT= 5.00]

006:0004-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-
ROUTE CHANNEL -> 01:4001 5.28 .680 No\_date 6:05 44.68 n/a
[RDT= 1.67] out<- 02:4.003 5.28 .492 No\_date 6:13 44.68 n/a
[L/S/n= 475./1.260/.050]
{Vmax= .563:Dmax= .252}

006:0005-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-
CALIB NASHYD 03:4003 3.13 .286 No\_date 6:10 41.07 .396
[CN= 62.6: N= 3.00]
[Tp= .29:DT= 5.00]

006:0006-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-
CALIB NASHYD 04:4002 6.34 .899 No\_date 6:05 53.83 .520
[CN= 73.5: N= 3.00]
[Tp= .23:DT= 5.00]

006:0007-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-
ADD HYD 02:4.003 5.28 .492 No\_date 6:13 44.68 n/a
+ 03:4003 3.13 .286 No\_date 6:10 41.07 n/a
+ 04:4002 6.34 .899 No\_date 6:05 53.83 n/a
[DT= 1.67] SUM= 05:4003.2 14.75 1.613 No\_date 6:08 47.85 n/a

006:0008-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-
ROUTE CHANNEL -> 05:4003.2 14.75 1.613 No\_date 6:08 47.85 n/a
\* [RDT= 1.67] out<- 01:4.006 14.75 1.569 No\_date 6:12 47.85 n/a
[L/S/n= 357./5.040/.050]
{Vmax= 1.630:Dmax= .070}

006:0009-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-
\* CALIB NASHYD 02:4004A .10 .025 No\_date 6:00 53.93 .521
[CN= 73.6: N= 3.00]
[Tp= .03:DT= 5.00]

006:0010-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-
\* CALIB NASHYD 03:4004B .36 .089 No\_date 6:00 53.93 .521
[CN= 73.6: N= 3.00]
[Tp= .05:DT= 5.00]

006:0011-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-
\* CALIB NASHYD 04:4004C 1.13 .238 No\_date 6:00 53.94 .521
[CN= 73.6: N= 3.00]
[Tp= .11:DT= 5.00]

\*\*\*\*\*
# NEW FELLOWSHIP CHURCH - WEST DRAINAGE TO GRINDSTONE TRIB 4 #
\*\*\*\*\*

006:0012-----ID:NHYD-----AREA----QPEAK-TpeakDate\_hh:mm----R.V.-R.C.-
\* CALIB STANDHYD 05:4010A .35 .116 No\_date 6:00 84.63 .817
[XIMP=.63:TIMP=.63]
[LOSS= 2 :CN= 73.6]
[Pervious area: IAPer= 2.50:SLPP=1.00:LGP= 5.:MNP=.035:SCP= .0]



```

SWM.sum
[Impervious area: IAimp= .50:SLPI=1.00:LGI= 30.:MNI=.013:SCI= .0]
006:0013-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      06:4010B      .21      .052 No_date  6:00  53.94 .521
  [CN= 73.6: N= 3.00]
  [Tp= .04:DT= 5.00]
006:0014-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   07:4010C      .14      .041 No_date  6:00  71.14 .687
  [XIMP=.36:TIMP=.36]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 20.:MNI=.013:SCI= .0]
#####
006:0015-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          05:4010A      .35      .116 No_date  6:00  84.63 n/a
                + 07:4010C      .14      .041 No_date  6:00  71.14 n/a
  [DT= 5.00] SUM= 08:PND3IN      .49      .157 No_date  6:00  80.77 n/a
006:0016-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE RESERVOIR -> 08:PND3IN      .49      .157 No_date  6:00  80.77 n/a
* [RDT= 1.00] out<- 07:SWM-3      .49      .066 No_date  6:03  75.84 n/a
  overFlow <= 09:OVF      .00      .000 No_date  0:00   .00 n/a
  {MxStoUsed=.2131E-01, TotovfVo1=.0000E+00, N-ovf= 0, TotDurOvf= 0.hrs}
006:0017-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          07:SWM-3      .49      .066 No_date  6:03  75.84 n/a
                + 09:OVF      .00      .000 No_date  0:00   .00 n/a
  [DT= 1.00] SUM= 05:PND3OU      .49      .066 No_date  6:03  75.84 n/a
006:0018-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          05:PND3OU      .49      .066 No_date  6:03  75.84 n/a
                + 06:4010B      .21      .052 No_date  6:00  53.94 n/a
  [DT= 1.00] SUM= 08:WestSi      .70      .111 No_date  6:00  69.26 n/a
006:0019-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:4.006     14.75     1.569 No_date  6:12  47.85 n/a
                + 02:4004A      .10      .025 No_date  6:00  53.93 n/a
                + 03:4004B      .36      .089 No_date  6:00  53.93 n/a
                + 04:4004C      1.13     .238 No_date  6:00  53.94 n/a
                + 08:WestSi      .70      .111 No_date  6:00  69.26 n/a
  [DT= 1.00] SUM= 09:4008.1    17.04     1.738 No_date  6:10  49.29 n/a
#####
# NEW FELLOWSHIP CHURCH - EAST MAJOR DRAINAGE TO GRINDSTONE TRIB 4 #
#####
006:0020-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   01:4011A      .12      .036 No_date  6:00  72.14 .696
  [XIMP=.38:TIMP=.38]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
006:0021-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD   02:4011B      .10      .031 No_date  6:00  75.64 .730
  [XIMP=.45:TIMP=.45]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
#####
006:0022-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      03:4004D      .57      .138 No_date  6:00  53.94 .521
  [CN= 73.6: N= 3.00]
  [Tp= .06:DT= 5.00]
006:0023-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:4011ex     .18      .045 No_date  6:00  53.93 .521
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]
006:0024-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:4011A      .12      .036 No_date  6:00  72.14 n/a
                + 04:4011ex     .18      .045 No_date  6:00  53.93 n/a

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SWM.sum
[DT= 5.00] SUM= 05:PND1IN .30 .081 No_date 6:00 61.22 n/a
006:0025-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE RESERVOIR -> 05:PND1IN .30 .081 No_date 6:00 61.22 n/a
[RD= 1.00] out<- 06:SWM-1 .30 .016 No_date 6:05 61.22 n/a
overflow <= 07:OVF .00 .000 No_date 0:00 .00 n/a
{MxStoUsed=.8349E-02, TotovfVol=.0000E+00, N-ovf= 0, TotDurovf= 0.hrs}
006:0026-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 06:SWM-1 .30 .016 No_date 6:05 61.22 n/a
+ 07:OVF .00 .000 No_date 0:00 .00 n/a
[DT= 1.00] SUM= 08:PND1OU .30 .016 No_date 6:05 61.22 n/a
006:0027-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE RESERVOIR -> 02:4011B .10 .031 No_date 6:00 75.64 n/a
[RD= 1.00] out<- 01:SWM-2 .10 .005 No_date 6:05 75.63 n/a
overflow <= 04:OVF .00 .000 No_date 0:00 .00 n/a
{MxStoUsed=.3595E-02, TotovfVol=.0000E+00, N-ovf= 0, TotDurovf= 0.hrs}
006:0028-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 01:SWM-2 .10 .005 No_date 6:05 75.63 n/a
+ 04:OVF .00 .000 No_date 0:00 .00 n/a
[DT= 1.00] SUM= 07:PND2OU .10 .005 No_date 6:05 75.63 n/a
006:0029-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 03:4004D .57 .138 No_date 6:00 53.94 n/a
+ 07:PND2OU .10 .005 No_date 6:05 75.63 n/a
+ 08:PND1OU .30 .016 No_date 6:05 61.22 n/a
[DT= 1.00] SUM= 05:4011 .97 .157 No_date 6:00 58.42 n/a
#####
006:0030-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
DIVERT HYD -> 05:4011 .97 .157 No_date 6:00 58.42 n/a
diverted <= 02:Minor .88 .067 No_date 6:00 58.42 n/a
diverted <= 03:Major .09 .090 No_date 6:00 58.42 n/a
#####
006:0031-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL -> 03:Major .09 .090 No_date 6:00 58.42 n/a
* [RD= 1.00] out<- 01:4.007 .09 .070 No_date 6:01 58.42 n/a
[L/S/n= 250./2.400/.035]
{Vmax= .934:Dmax= .154}
006:0032-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 09:4008.1 17.04 1.738 No_date 6:10 49.29 n/a
+ 01:4.007 .09 .070 No_date 6:01 58.42 n/a
[DT= 1.00] SUM= 03:4008.1 17.13 1.757 No_date 6:09 49.34 n/a
006:0033-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD 06:4006 3.37 .621 No_date 6:00 48.34 .467
[CN= 69.1: N= 3.00]
[TP= .12:DT= 5.00]
006:0034-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 04:4007 5.04 1.366 No_date 6:00 68.16 .658
[XIMP=.31:TIMP=.31]
[LOSS= 2 :CN= 72.8]
[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
[Impervious area: IAIMP= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]
006:0035-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 05:4008 2.42 .696 No_date 6:00 70.27 .678
[XIMP=.22:TIMP=.22]
[LOSS= 2 :CN= 79.3]
[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]
[Impervious area: IAIMP= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]
006:0036-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD 03:4008.1 17.13 1.757 No_date 6:09 49.34 n/a
+ 04:4007 5.04 1.366 No_date 6:00 68.16 n/a
+ 05:4008 2.42 .696 No_date 6:00 70.27 n/a
+ 06:4006 3.37 .621 No_date 6:00 48.34 n/a
[DT= 1.00] SUM= 01:4008.2 27.96 4.290 No_date 6:00 54.42 n/a
006:0037-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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ID	HYD	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.
SWM.sum						
* 006:0038	CALIB STANDHYD 03:4009	5.11	1.790	No_date 6:00	95.01	.917
	[XIMP=.01:TIMP=.90]					
	[LOSS= 2 :CN= 73.1]					
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]					
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]					
006:0038	ADD HYD	01:4008.2	27.96	4.290 No_date 6:00	54.42	n/a
		+ 03:4009	5.11	1.790 No_date 6:00	95.01	n/a
	[DT= 1.00] SUM=	05:4009.2	33.07	6.079 No_date 6:00	60.69	n/a
* 006:0039	CALIB NASHYD 01:6001	2.45	.421	No_date 6:00	41.28	.398
	[CN= 62.8: N= 3.00]					
	[Tp= .09:DT= 5.00]					
006:0040	ADD HYD	10:6002	11.01	2.038 No_date 6:00	55.33	.534
	[CN= 74.6: N= 3.00]					
	[Tp= .15:DT= 5.00]					
* 006:0041	CALIB STANDHYD 03:6004	1.46	.535	No_date 6:00	93.90	.906
	[XIMP=.01:TIMP=.81]					
	[LOSS= 2 :CN= 82.4]					
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]					
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]					
006:0042	ADD HYD	01:6001	2.45	.421 No_date 6:00	41.28	n/a
		+ 10:6002	11.01	2.038 No_date 6:00	55.33	n/a
		+ 03:6004	1.46	.535 No_date 6:00	93.90	n/a
	[DT= 5.00] SUM=	04:6002.2	14.92	2.994 No_date 6:00	56.79	n/a
006:0043	CALIB NASHYD 01:1001	47.64	3.811	No_date 6:15	42.59	.411
	[CN= 64.0: N= 3.00]					
	[Tp= .38:DT= 5.00]					
006:0044	ROUTE CHANNEL -> 01:1001	47.64	3.811	No_date 6:15	42.59	n/a
	[RDT= 1.67] out<- 10:1.002	47.64	3.639	No_date 6:20	42.59	n/a
	[L/S/n= 402./2.240/.050]					
	{Vmax= 1.186:Dmax= .415}					
006:0045	CALIB NASHYD 01:1002	4.51	.558	No_date 6:00	41.39	.399
	[CN= 62.9: N= 3.00]					
	[Tp= .17:DT= 5.00]					
006:0046	ADD HYD	10:1.002	47.64	3.639 No_date 6:20	42.59	n/a
		+ 01:1002	4.51	.558 No_date 6:00	41.39	n/a
	[DT= 1.67] SUM=	03:1002.2	52.15	3.886 No_date 6:18	42.49	n/a
* 006:0047	CALIB NASHYD 01:1003	2.41	.411	No_date 6:00	49.97	.482
	[CN= 70.4: N= 3.00]					
	[Tp= .14:DT= 5.00]					
006:0048	CALIB STANDHYD 05:1004	1.36	.501	No_date 6:00	94.76	.915
	[XIMP=.01:TIMP=.89]					
	[LOSS= 2 :CN= 74.0]					
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]					
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]					
006:0049	ADD HYD	01:1003	2.41	.411 No_date 6:00	49.97	n/a
		+ 03:1002.2	52.15	3.886 No_date 6:18	42.49	n/a
		+ 05:1004	1.36	.501 No_date 6:00	94.76	n/a
	[DT= 1.67] SUM=	10:1004.2	55.92	4.101 No_date 6:17	44.08	n/a
006:0050	ADD HYD	04:6002.2	14.92	2.994 No_date 6:00	56.79	n/a
		+ 10:1004.2	55.92	4.101 No_date 6:17	44.08	n/a

		SWM. sum							
006:0051	[DT= 1.67] SUM= 01:1004.2	70.84	6.283	No_date	6:00	46.76	n/a		
	CALIB NASHYD ID:NHYD-----AREA----	10:6003	5.59	1.073	No_date	6:00	61.51	.594	
	[CN= 79.0: N= 3.00]								
	[Tp= .17:DT= 5.00]								
006:0052	ADD HYD ID:NHYD-----AREA----	01:1004.2	70.84	6.283	No_date	6:00	46.76	n/a	
	+ 10:6003	5.59	1.073	No_date	6:00	61.51	n/a		
	[DT= 1.67] SUM= 03:6003.2	76.43	7.356	No_date	6:00	47.84	n/a		
006:0053	CALIB NASHYD ID:NHYD-----AREA----	01:2001	136.38	9.630	No_date	6:25	46.87	.452	
	[CN= 67.8: N= 3.00]								
	[Tp= .52:DT= 5.00]								
006:0054	ROUTE CHANNEL -> ID:NHYD-----AREA----	01:2001	136.38	9.630	No_date	6:25	46.87	n/a	
	[RDT= 1.67] out<- 10:2.002	136.38	8.684	No_date	6:38	46.87	n/a		
	[L/S/n= 933./1.500/.050]								
	{Vmax= 1.121:Dmax= .681}								
006:0055	CALIB NASHYD ID:NHYD-----AREA----	01:2002	7.78	.481	No_date	6:25	40.97	.395	
	[CN= 62.5: N= 3.00]								
	[Tp= .51:DT= 5.00]								
006:0056	ADD HYD ID:NHYD-----AREA----	10:2.002	136.38	8.684	No_date	6:38	46.87	n/a	
	+ 01:2002	7.78	.481	No_date	6:25	40.97	n/a		
	[DT= 1.67] SUM= 04:2001.2	144.16	9.129	No_date	6:37	46.55	n/a		
006:0057	* CALIB STANDHYD ID:NHYD-----AREA----	01:2003	.96	.352	No_date	6:00	92.05	.888	
	[XIMP=.01:TIMP=.86]								
	[LOSS= 2 :CN= 74.0]								
	[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]								
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]								
006:0058	ADD HYD ID:NHYD-----AREA----	01:2003	.96	.352	No_date	6:00	92.05	n/a	
	+ 04:2001.2	144.16	9.129	No_date	6:37	46.55	n/a		
	[DT= 1.67] SUM= 10:2002.2	145.12	9.153	No_date	6:37	46.85	n/a		
006:0059	ADD HYD ID:NHYD-----AREA----	10:2002.2	145.12	9.153	No_date	6:37	46.85	n/a	
	+ 03:6003.2	76.43	7.356	No_date	6:00	47.84	n/a		
	[DT= 1.67] SUM= 01:2002.2	221.55	13.510	No_date	6:30	47.19	n/a		
006:0060	* CALIB NASHYD ID:NHYD-----AREA----	10:7001	3.11	.541	No_date	6:00	42.86	.414	
	[CN= 64.3: N= 3.00]								
	[Tp= .10:DT= 5.00]								
006:0061	ADD HYD ID:NHYD-----AREA----	01:2002.2	221.55	13.510	No_date	6:30	47.19	n/a	
	+ 10:7001	3.11	.541	No_date	6:00	42.86	n/a		
	[DT= 1.67] SUM= 03:7001.2	224.66	13.605	No_date	6:30	47.13	n/a		
006:0062	* CALIB STANDHYD ID:NHYD-----AREA----	01:2004	2.28	.582	No_date	6:00	59.94	.579	
	[XIMP=.01:TIMP=.40]								
	[LOSS= 2 :CN= 68.0]								
	[Pervious area: IAPER= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]								
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]								
006:0063	ADD HYD ID:NHYD-----AREA----	01:2004	2.28	.582	No_date	6:00	59.94	n/a	
	+ 03:7001.2	224.66	13.605	No_date	6:30	47.13	n/a		
	[DT= 1.67] SUM= 10:2004.2	226.94	13.697	No_date	6:30	47.26	n/a		
006:0064	CALIB NASHYD ID:NHYD-----AREA----	01:3001	78.24	5.296	No_date	6:20	40.30	.389	
	[CN= 61.9: N= 3.00]								
	[Tp= .44:DT= 5.00]								
006:0065	ID:NHYD-----AREA----								

		SWM. sum						
ROUTE CHANNEL	-> 01:3001	78.24	5.296	No_date	6:20	40.30	n/a	
[RDT= 1.67] out<-	03:3.002	78.24	5.207	No_date	6:23	40.30	n/a	
[L/S/n= 1097./9.080/.050]								
{Vmax= 4.589:Dmax= .068}								
006:0066	-----ID:NHYD-----	AREA	-----QPEAK	TpeakDate_hh:mm	-----R.V.	-R.C.	-----	
CALIB NASHYD	01:3002	9.19	.639	No_date	6:25	46.84	.452	
[CN= 67.8: N= 3.00]								
[Tp= .53:DT= 5.00]								
006:0067	-----ID:NHYD-----	AREA	-----QPEAK	TpeakDate_hh:mm	-----R.V.	-R.C.	-----	
ADD HYD	01:3002	9.19	.639	No_date	6:25	46.84	n/a	
	+ 03:3.002	78.24	5.207	No_date	6:23	40.30	n/a	
[DT= 1.67] SUM=	04:3002.2	87.43	5.843	No_date	6:23	40.99	n/a	
006:0068	-----ID:NHYD-----	AREA	-----QPEAK	TpeakDate_hh:mm	-----R.V.	-R.C.	-----	
* CALIB NASHYD	01:3010	4.15	.666	No_date	6:00	40.97	.395	
[CN= 62.5: N= 3.00]								
[Tp= .11:DT= 5.00]								
006:0069	-----ID:NHYD-----	AREA	-----QPEAK	TpeakDate_hh:mm	-----R.V.	-R.C.	-----	
ADD HYD	01:3010	4.15	.666	No_date	6:00	40.97	n/a	
	+ 04:3002.2	87.43	5.843	No_date	6:23	40.99	n/a	
[DT= 1.67] SUM=	03:3010.2	91.58	5.972	No_date	6:23	40.99	n/a	
006:0070	-----ID:NHYD-----	AREA	-----QPEAK	TpeakDate_hh:mm	-----R.V.	-R.C.	-----	
* CALIB STANDHYD	01:3003	1.99	.569	No_date	6:00	73.61	.710	
[XIMP=.48:TIMP=.48]								
[LOSS= 2 :CN= 67.8]								
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]								
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]								
006:0071	-----ID:NHYD-----	AREA	-----QPEAK	TpeakDate_hh:mm	-----R.V.	-R.C.	-----	
* CALIB STANDHYD	04:3004	.40	.129	No_date	6:00	84.97	.820	
[XIMP=.70:TIMP=.70]								
[LOSS= 2 :CN= 64.5]								
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]								
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]								
006:0072	-----ID:NHYD-----	AREA	-----QPEAK	TpeakDate_hh:mm	-----R.V.	-R.C.	-----	
ADD HYD	01:3003	1.99	.569	No_date	6:00	73.61	n/a	
	+ 04:3004	.40	.129	No_date	6:00	84.97	n/a	
[DT= 5.00] SUM=	05:3004.2	2.39	.698	No_date	6:00	75.51	n/a	
006:0073	-----ID:NHYD-----	AREA	-----QPEAK	TpeakDate_hh:mm	-----R.V.	-R.C.	-----	
* CALIB STANDHYD	01:3005	2.80	.736	No_date	6:00	66.12	.638	
[XIMP=.01:TIMP=.59]								
[LOSS= 2 :CN= 64.5]								
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]								
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]								
006:0074	-----ID:NHYD-----	AREA	-----QPEAK	TpeakDate_hh:mm	-----R.V.	-R.C.	-----	
ADD HYD	01:3005	2.80	.736	No_date	6:00	66.12	n/a	
	+ 02:Minor	.88	.067	No_date	6:00	58.42	n/a	
	+ 05:3004.2	2.39	.698	No_date	6:00	75.51	n/a	
[DT= 1.00] SUM=	04:3005.2	6.07	1.500	No_date	6:00	68.71	n/a	
006:0075	-----ID:NHYD-----	AREA	-----QPEAK	TpeakDate_hh:mm	-----R.V.	-R.C.	-----	
ADD HYD	03:3010.2	91.58	5.972	No_date	6:23	40.99	n/a	
	+ 04:3005.2	6.07	1.500	No_date	6:00	68.71	n/a	
[DT= 1.00] SUM=	01:3005.2	97.65	6.252	No_date	6:23	42.71	n/a	
006:0076	-----ID:NHYD-----	AREA	-----QPEAK	TpeakDate_hh:mm	-----R.V.	-R.C.	-----	
* CALIB STANDHYD	03:3006	1.12	.398	No_date	6:00	86.73	.837	
[XIMP=.01:TIMP=.86]								
[LOSS= 2 :CN= 64.5]								
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]								
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]								
006:0077	-----ID:NHYD-----	AREA	-----QPEAK	TpeakDate_hh:mm	-----R.V.	-R.C.	-----	
ADD HYD	01:3005.2	97.65	6.252	No_date	6:23	42.71	n/a	
	+ 03:3006	1.12	.398	No_date	6:00	86.73	n/a	
[DT= 1.00] SUM=	04:3005.2	98.77	6.307	No_date	6:23	43.21	n/a	
006:0078	-----ID:NHYD-----	AREA	-----QPEAK	TpeakDate_hh:mm	-----R.V.	-R.C.	-----	
* CALIB STANDHYD	01:3009	1.93	.690	No_date	6:00	91.50	.883	

SWM.sum

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[XIMP=.01:TIMP=.90]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]
006:0079-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3009          1.93      .690 No_date   6:00   91.50  n/a
      + 04:3005.2          98.77     6.307 No_date   6:23   43.21  n/a
[DT= 1.00] SUM= 03:3009.2          100.70     6.407 No_date   6:23   44.13  n/a
006:0080-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          10:2004.2         226.94    13.697 No_date   6:30   47.26  n/a
      + 03:3009.2          100.70     6.407 No_date   6:23   44.13  n/a
[DT= 1.00] SUM= 01:3009.2          327.64    19.969 No_date   6:28   46.30  n/a
006:0081-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 02:3007           2.08      .566 No_date   6:00   63.54  .613
[XIMP=.01:TIMP=.36]
[LOSS= 2 :CN= 72.4]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
006:0082-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3009.2         327.64    19.969 No_date   6:28   46.30  n/a
      + 02:3007           2.08      .566 No_date   6:00   63.54  n/a
[DT= 1.00] SUM= 03:3007.2         329.72    20.057 No_date   6:28   46.41  n/a
006:0083-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   01:2005           2.85      .932 No_date   6:00   75.07  .725
[CN= 87.3: N= 3.00]
[Tp= .05:DT= 5.00]
006:0084-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:2005           2.85      .932 No_date   6:00   75.07  n/a
      + 03:3007.2         329.72    20.057 No_date   6:28   46.41  n/a
[DT= 1.00] SUM= 02:2005.2         332.57    20.189 No_date   6:28   46.65  n/a
006:0085-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:3008           1.61      .453 No_date   6:00   67.20  .649
[XIMP=.01:TIMP=.40]
[LOSS= 2 :CN= 74.3]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
006:0086-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:3008           1.61      .453 No_date   6:00   67.20  n/a
      + 02:2005.2         332.57    20.189 No_date   6:28   46.65  n/a
[DT= 1.00] SUM= 03:3008.2         334.18    20.260 No_date   6:28   46.75  n/a
006:0087-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD    01:5001           62.50     1.580 No_date   6:20   15.08  .146
[CN= 30.1: N= 3.00]
[Tp= .41:DT= 5.00]
006:0088-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL  -> 01:5001           62.50     1.580 No_date   6:20   15.08  n/a
[RDT= 1.67] out<- 02:5.002         62.50     1.453 No_date   6:28   15.08  n/a
[L/S/n= 912./2.030/.050]
{Vmax= 1.544:Dmax= .053}
006:0089-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD    03:5002          14.10     .568 No_date   6:05   17.49  .169
[CN= 34.0: N= 3.00]
[Tp= .25:DT= 5.00]
006:0090-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   04:5004           3.48      .828 No_date   6:00   60.01  .579
[CN= 78.0: N= 3.00]
[Tp= .10:DT= 5.00]
006:0091-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          02:5.002          62.50     1.453 No_date   6:28   15.08  n/a
      + 03:5002          14.10     .568 No_date   6:05   17.49  n/a
      + 04:5004           3.48      .828 No_date   6:00   60.01  n/a
[DT= 1.67] SUM= 05:5002.2          80.08     2.793 No_date  14:53   17.80  n/a
006:0092-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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* CALIB NASHYD          01:5003          SWM.Sum
  [CN= 61.0: N= 3.00]          2.65          .353 No_date          6:00          39.42 .380
  [Tp= .14:DT= 5.00]
006:0093-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          01:5003          2.65          .353 No_date          6:00          39.42 n/a
    + 05:5002.2          80.08          2.793 No_date          14:53          17.80 n/a
  [DT= 1.67] SUM= 02:5003.2          82.73          2.793 No_date          14:53          18.50 n/a
006:0094-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD      01:SWALE          .50          .186 No_date          6:00          100.58 .971
  [XIMP=.95:TIMP=.95]
  [LOSS= 2 :CN= 73.1]
  [Pervious area: Iaper= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
** END OF RUN : 6

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RUN:COMMAND#

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007:0001-----
  START
  [TZERO = .00 hrs on          0]
  [METOUT= 2          (1=imperial, 2=metric output)]
  [NSTORM= 1 ]
  [NRUN = 7 ]
#*****
# Project Name: [waterdown Road]          Project Number: [107016]          *
# Date : 09-14-2007          *
# Modeller : [KB]          *
# Company : Philips Engineering Ltd          *
# License # : 3569108          *
#*****
007:0002-----
  READ STORM
  Filename = STORM.001
  Comment = City of ANYWHERE - 4 hr/25.0mm Chicago Design Storm
  [SDT= 5.00:SDUR= 3.92:PTOT= 24.78]
007:0003-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD          01:4001          5.28          .062 No_date          2:15          3.51 .141
  [CN= 65.9: N= 3.00]
  [Tp= .19:DT= 5.00]
007:0004-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ROUTE CHANNEL -> 01:4001          5.28          .062 No_date          2:15          3.51 n/a
  [RDT= 1.67] out<- 02:4.003          5.28          .047 No_date          2:25          3.51 n/a
  [L/S/n= 475./1.260/.050]
  {Vmax= .561:Dmax= .024}
007:0005-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD          03:4003          3.13          .026 No_date          2:20          3.10 .125
  [CN= 62.6: N= 3.00]
  [Tp= .29:DT= 5.00]
007:0006-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  CALIB NASHYD          04:4002          6.34          .093 No_date          2:15          4.72 .190
  [CN= 73.5: N= 3.00]
  [Tp= .23:DT= 5.00]
007:0007-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD          02:4.003          5.28          .047 No_date          2:25          3.51 n/a
    + 03:4003          3.13          .026 No_date          2:20          3.10 n/a
    + 04:4002          6.34          .093 No_date          2:15          4.72 n/a
  [DT= 1.67] SUM= 05:4003.2          14.75          .161 No_date          2:20          3.94 n/a
007:0008-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-

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                                SWM.Sum
* ROUTE CHANNEL -> 05:4003.2    14.75    .161 No_date    2:20    3.94 n/a
  [RDT= 1.67] out<- 01:4.006    14.75    .156 No_date    2:23    3.94 n/a
  [L/S/n= 357./5.040/.050]
  {Vmax= 1.630:Dmax= .007}
007:0009-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      02:4004A      .10      .003 No_date    2:00    4.73 .191
  [CN= 73.6: N= 3.00]
  [Tp= .03:DT= 5.00]
007:0010-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      03:4004B      .36      .011 No_date    2:00    4.73 .191
  [CN= 73.6: N= 3.00]
  [Tp= .05:DT= 5.00]
007:0011-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:4004C      1.13     .024 No_date    2:05    4.73 .191
  [CN= 73.6: N= 3.00]
  [Tp= .11:DT= 5.00]
#####
# NEW FELLOWSHIP CHURCH - WEST DRAINAGE TO GRINDSTONE TRIB 4 #
#####
007:0012-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    05:4010A      .35      .046 No_date    2:00    16.91 .683
  [XIMP=.63:TIMP=.63]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: Iaper= 2.50:SLPP=1.00:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.00:LGI= 30.:MNI=.013:SCI= .0]
007:0013-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      06:4010B      .21      .007 No_date    2:00    4.73 .191
  [CN= 73.6: N= 3.00]
  [Tp= .04:DT= 5.00]
007:0014-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD    07:4010C      .14      .012 No_date    2:00    11.54 .466
  [XIMP=.36:TIMP=.36]
  [LOSS= 2 :CN= 73.6]
  [Pervious area: Iaper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
  [Impervious area: IAimp= .50:SLPI=1.50:LGI= 20.:MNI=.013:SCI= .0]
#####
007:0015-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD            05:4010A      .35      .046 No_date    2:00    16.91 n/a
                    + 07:4010C      .14      .012 No_date    2:00    11.54 n/a
  [DT= 5.00] SUM= 08:PND3IN    .49      .058 No_date    2:00    15.38 n/a
007:0016-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* ROUTE RESERVOIR -> 08:PND3IN    .49      .058 No_date    2:00    15.38 n/a
  [RDT= 1.00] out<- 07:SWM-3    .49      .000 No_date    4:00    10.70 n/a
  overflow <= 09:OVF          .00      .000 No_date    0:00     .00 n/a
  {MxStoUsed=.7467E-02, TotovfVo1=.0000E+00, N-ovf= 0, TotDurOvf= 0.hrs}
007:0017-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD            07:SWM-3      .49      .000 No_date    4:00    10.70 n/a
                    + 09:OVF          .00      .000 No_date    0:00     .00 n/a
  [DT= 1.00] SUM= 05:PND3OU    .49      .000 No_date    4:00    10.70 n/a
007:0018-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD            05:PND3OU    .49      .000 No_date    4:00    10.70 n/a
                    + 06:4010B      .21      .007 No_date    2:00     4.73 n/a
  [DT= 1.00] SUM= 08:WestSi    .70      .007 No_date    2:00     8.91 n/a
007:0019-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
  ADD HYD            01:4.006     14.75    .156 No_date    2:23     3.94 n/a
                    + 02:4004A      .10      .003 No_date    2:00     4.73 n/a
                    + 03:4004B      .36      .011 No_date    2:00     4.73 n/a
                    + 04:4004C      1.13     .024 No_date    2:05     4.73 n/a
                    + 08:WestSi    .70      .007 No_date    2:00     8.91 n/a
  [DT= 1.00] SUM= 09:4008.1    17.04    .173 No_date    2:22     4.22 n/a
#####
# NEW FELLOWSHIP CHURCH - EAST MAJOR DRAINAGE TO GRINDSTONE TRIB 4 #
#####

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SWM.sum
007:0020-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 01:4011A .12 .011 No_date 2:00 11.94 .482
[XIMP=.38:TIMP=.38]
[LOSS= 2 :CN= 73.6]
[Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
007:0021-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 02:4011B .10 .010 No_date 2:00 13.33 .538
[XIMP=.45:TIMP=.45]
[LOSS= 2 :CN= 73.6]
[Pervious area: IAper= 2.50:SLPP=****:LGP= 5.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 30.:MNI=.013:SCI= .0]
#####
007:0022-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD 03:4004D .57 .015 No_date 2:00 4.73 .191
[CN= 73.6: N= 3.00]
[Tp= .06:DT= 5.00]
007:0023-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD 04:4011ex .18 .006 No_date 2:00 4.73 .191
[CN= 73.6: N= 3.00]
[Tp= .03:DT= 5.00]
007:0024-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD 01:4011A .12 .011 No_date 2:00 11.94 n/a
+ 04:4011ex .18 .006 No_date 2:00 4.73 n/a
[DT= 5.00] SUM= 05:PND1IN .30 .017 No_date 2:00 7.61 n/a
007:0025-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ROUTE RESERVOIR -> 05:PND1IN .30 .017 No_date 2:00 7.61 n/a
[RDT= 1.00] out<- 06:SWM-1 .30 .003 No_date 2:23 7.61 n/a
overflow <= 07:OVF .00 .000 No_date 0:00 .00 n/a
{MxStoUsed=.1169E-02, TotovfVol=.0000E+00, N-ovf= 0, TotDurOvf= 0.hrs}
007:0026-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD 06:SWM-1 .30 .003 No_date 2:23 7.61 n/a
+ 07:OVF .00 .000 No_date 0:00 .00 n/a
[DT= 1.00] SUM= 08:PND1OU .30 .003 No_date 2:23 7.61 n/a
007:0027-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ROUTE RESERVOIR -> 02:4011B .10 .010 No_date 2:00 13.33 n/a
[RDT= 1.00] out<- 01:SWM-2 .10 .002 No_date 2:21 13.32 n/a
overflow <= 04:OVF .00 .000 No_date 0:00 .00 n/a
{MxStoUsed=.7447E-03, TotovfVol=.0000E+00, N-ovf= 0, TotDurOvf= 0.hrs}
007:0028-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD 01:SWM-2 .10 .002 No_date 2:21 13.32 n/a
+ 04:OVF .00 .000 No_date 0:00 .00 n/a
[DT= 1.00] SUM= 07:PND2OU .10 .002 No_date 2:21 13.32 n/a
007:0029-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD 03:4004D .57 .015 No_date 2:00 4.73 n/a
+ 07:PND2OU .10 .002 No_date 2:21 13.32 n/a
+ 08:PND1OU .30 .003 No_date 2:23 7.61 n/a
[DT= 1.00] SUM= 05:4011 .97 .017 No_date 2:04 6.51 n/a
#####
#####
007:0030-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
DIVERT HYD -> 05:4011 .97 .017 No_date 2:04 6.51 n/a
diverted <= 02:Minor .97 .017 No_date 2:04 6.51 n/a
diverted <= 03:Major .00 .000 No_date 0:00 .00 n/a
#####
007:0031-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ROUTE CHANNEL -> 03:Major .00 .000 No_date 0:00 .00 n/a
* [RDT= 2.00] out<- 01:4.007 .00 .000 No_date 0:00 .00 n/a
[L/S/n= 250./2.400/.035]
{Vmax= .000:Dmax= .000}
007:0032-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD 09:4008.1 17.04 .173 No_date 2:22 4.22 n/a
+ 01:4.007 .00 .000 No_date 0:00 .00 n/a

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ID	NAME	DT	SUM	AREA	QPEAK	TpeakDate_hh:mm	R.V.	R.C.
007:0033	CALIB NASHYD	03:4008.1	17.04	.173	No_date	2:22	4.22	n/a
	[CN= 69.1: N= 3.00]							
	[Tp= .12:DT= 5.00]							
007:0034	CALIB STANDHYD	04:4007	5.04	.288	No_date	2:00	10.54	.425
	[XIMP=.31:TIMP=.31]							
	[LOSS= 2 :CN= 72.8]							
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]							
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 168.:MNI=.013:SCI= .0]							
007:0035	CALIB STANDHYD	05:4008	2.42	.111	No_date	2:00	9.68	.391
	[XIMP=.22:TIMP=.22]							
	[LOSS= 2 :CN= 79.3]							
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 56.:MNP=.035:SCP= .0]							
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 134.:MNI=.013:SCI= .0]							
007:0036	ADD HYD	03:4008.1	17.04	.173	No_date	2:22	4.22	n/a
	+	04:4007	5.04	.288	No_date	2:00	10.54	n/a
	+	05:4008	2.42	.111	No_date	2:00	9.68	n/a
	+	06:4006	3.37	.058	No_date	2:05	3.96	n/a
	[DT= 1.00] SUM=	01:4008.2	27.87	.503	No_date	2:00	5.80	n/a
007:0037	CALIB STANDHYD	03:4009	5.11	.462	No_date	2:00	17.91	.723
	[XIMP=.01:TIMP=.90]							
	[LOSS= 2 :CN= 73.1]							
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 180.:MNP=.034:SCP= .0]							
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 310.:MNI=.013:SCI= .0]							
007:0038	ADD HYD	01:4008.2	27.87	.503	No_date	2:00	5.80	n/a
	+	03:4009	5.11	.462	No_date	2:00	17.91	n/a
	[DT= 1.00] SUM=	05:4009.2	32.98	.964	No_date	2:00	7.68	n/a
007:0039	CALIB NASHYD	01:6001	2.45	.037	No_date	2:05	3.12	.126
	[CN= 62.8: N= 3.00]							
	[Tp= .09:DT= 5.00]							
007:0040	CALIB NASHYD	10:6002	11.01	.214	No_date	2:10	4.94	.199
	[CN= 74.6: N= 3.00]							
	[Tp= .15:DT= 5.00]							
007:0041	CALIB STANDHYD	03:6004	1.46	.159	No_date	2:00	17.16	.693
	[XIMP=.01:TIMP=.81]							
	[LOSS= 2 :CN= 82.4]							
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]							
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]							
007:0042	ADD HYD	01:6001	2.45	.037	No_date	2:05	3.12	n/a
	+	10:6002	11.01	.214	No_date	2:10	4.94	n/a
	+	03:6004	1.46	.159	No_date	2:00	17.16	n/a
	[DT= 5.00] SUM=	04:6002.2	14.92	.363	No_date	2:05	5.84	n/a
007:0043	CALIB NASHYD	01:1001	47.64	.355	No_date	2:30	3.26	.132
	[CN= 64.0: N= 3.00]							
	[Tp= .38:DT= 5.00]							
007:0044	ROUTE CHANNEL	01:1001	47.64	.355	No_date	2:30	3.26	n/a
	[RDT= 1.67] out<-	10:1.002	47.64	.344	No_date	2:35	3.26	n/a
	[L/S/n= 402./2.240/.050]							
	{Vmax= 1.186:Dmax= .039}							
007:0045	CALIB NASHYD	01:1002	4.51	.051	No_date	2:10	3.13	.126

SWM.sum

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[CN= 62.9: N= 3.00]
[TP= .17:DT= 5.00]
007:0046-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          10:1.002      47.64      .344 No_date  2:35      3.26 n/a
                + 01:1002      4.51       .051 No_date  2:10      3.13 n/a
[DT= 1.67] SUM= 03:1002.2    52.15      .368 No_date  2:33      3.25 n/a
007:0047-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD   01:1003      2.41       .040 No_date  2:10      4.17 .168
[CN= 70.4: N= 3.00]
[TP= .14:DT= 5.00]
007:0048-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 05:1004      1.36       .159 No_date  2:00     17.75 .716
[XIMP=.01:TIMP=.89]
[LOSS= 2 :CN= 74.0]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 60.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 121.:MNI=.013:SCI= .0]
007:0049-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:1003      2.41       .040 No_date  2:10      4.17 n/a
                + 03:1002.2    52.15      .368 No_date  2:33      3.25 n/a
                + 05:1004      1.36       .159 No_date  2:00     17.75 n/a
[DT= 1.67] SUM= 10:1004.2    55.92      .408 No_date  2:30      3.64 n/a
007:0050-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          04:6002.2    14.92      .363 No_date  2:05      5.84 n/a
                + 10:1004.2    55.92      .408 No_date  2:30      3.64 n/a
[DT= 1.67] SUM= 01:1004.2    70.84      .641 No_date  2:10      4.11 n/a
007:0051-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     10:6003      5.59       .126 No_date  2:10      5.97 .241
[CN= 79.0: N= 3.00]
[TP= .17:DT= 5.00]
007:0052-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:1004.2    70.84      .641 No_date  2:10      4.11 n/a
                + 10:6003      5.59       .126 No_date  2:10      5.97 n/a
[DT= 1.67] SUM= 03:6003.2    76.43      .767 No_date  2:10      4.24 n/a
007:0053-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:2001     136.38     .958 No_date  2:40      3.77 .152
[CN= 67.8: N= 3.00]
[TP= .52:DT= 5.00]
007:0054-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL   -> 01:2001     136.38     .958 No_date  2:40      3.77 n/a
[RDT= 1.67] out<- 10:2.002    136.38     .848 No_date  2:57      3.77 n/a
[L/S/n= 933./1.500/.050]
{Vmax= .970:Dmax= .146}
007:0055-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD     01:2002      7.78       .045 No_date  2:40      3.08 .124
[CN= 62.5: N= 3.00]
[TP= .51:DT= 5.00]
007:0056-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          10:2.002     136.38     .848 No_date  2:57      3.77 n/a
                + 01:2002      7.78       .045 No_date  2:40      3.08 n/a
[DT= 1.67] SUM= 04:2001.2    144.16     .888 No_date  2:57      3.73 n/a
007:0057-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD 01:2003      .96        .105 No_date  2:00     16.14 .652
[XIMP=.01:TIMP=.86]
[LOSS= 2 :CN= 74.0]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 50.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 86.:MNI=.013:SCI= .0]
007:0058-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          01:2003      .96        .105 No_date  2:00     16.14 n/a
                + 04:2001.2    144.16     .888 No_date  2:57      3.73 n/a
[DT= 1.67] SUM= 10:2002.2    145.12     .896 No_date  2:57      3.82 n/a
007:0059-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD          10:2002.2    145.12     .896 No_date  2:57      3.82 n/a
                + 03:6003.2    76.43     .767 No_date  2:10      4.24 n/a

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		SWM. sum					
ID	DESCRIPTION	DT	SUM	AREA	QPEAK	TpeakDate_hh:mm	R.V.-R.C.-
007:0060	CALIB NASHYD	01:2002.2	221.55	3.11	1.329	No_date 2:45	3.96 n/a
*	CALIB NASHYD	10:7001		3.11	.048	No_date 2:05	3.29 .133
	[CN= 64.3: N= 3.00]						
	[Tp= .10:DT= 5.00]						
007:0061	ADD HYD	01:2002.2	221.55	3.11	1.329	No_date 2:45	3.96 n/a
		10:7001		3.11	.048	No_date 2:05	3.29 n/a
	[DT= 1.67] SUM=	03:7001.2	224.66		1.339	No_date 2:43	3.95 n/a
007:0062	CALIB STANDHYD	01:2004	2.28		.053	No_date 2:05	5.80 .234
	[XIMP=.01:TIMP=.40]						
	[LOSS= 2 :CN= 68.0]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 48.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 195.:MNI=.013:SCI= .0]						
007:0063	ADD HYD	01:2004	2.28		.053	No_date 2:05	5.80 n/a
		03:7001.2	224.66		1.339	No_date 2:43	3.95 n/a
	[DT= 1.67] SUM=	10:2004.2	226.94		1.353	No_date 2:43	3.97 n/a
007:0064	CALIB NASHYD	01:3001	78.24		.488	No_date 2:35	3.01 .122
	[CN= 61.9: N= 3.00]						
	[Tp= .44:DT= 5.00]						
007:0065	ROUTE CHANNEL ->	01:3001	78.24		.488	No_date 2:35	3.01 n/a
	[RDT= 1.67] out<-	03:3.002	78.24		.481	No_date 2:38	3.01 n/a
	[L/S/n= 1097./9.080/.050]						
	{Vmax= 4.589:Dmax= .006}						
007:0066	CALIB NASHYD	01:3002	9.19		.064	No_date 2:40	3.77 .152
	[CN= 67.8: N= 3.00]						
	[Tp= .53:DT= 5.00]						
007:0067	ADD HYD	01:3002	9.19		.064	No_date 2:40	3.77 n/a
		03:3.002	78.24		.481	No_date 2:38	3.01 n/a
	[DT= 1.67] SUM=	04:3002.2	87.43		.545	No_date 2:38	3.09 n/a
007:0068	CALIB NASHYD	01:3010	4.15		.057	No_date 2:05	3.08 .124
	[CN= 62.5: N= 3.00]						
	[Tp= .11:DT= 5.00]						
007:0069	ADD HYD	01:3010	4.15		.057	No_date 2:05	3.08 n/a
		04:3002.2	87.43		.545	No_date 2:38	3.09 n/a
	[DT= 1.67] SUM=	03:3010.2	91.58		.560	No_date 2:37	3.09 n/a
007:0070	CALIB STANDHYD	01:3003	1.99		.181	No_date 2:00	13.50 .545
	[XIMP=.48:TIMP=.48]						
	[LOSS= 2 :CN= 67.8]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 80.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 83.:MNI=.013:SCI= .0]						
007:0071	CALIB STANDHYD	04:3004	.40		.053	No_date 2:00	17.93 .724
	[XIMP=.70:TIMP=.70]						
	[LOSS= 2 :CN= 64.5]						
	[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 67.:MNP=.035:SCP= .0]						
	[Impervious area: IAimp= .50:SLPI=1.50:LGI= 68.:MNI=.013:SCI= .0]						
007:0072	ADD HYD	01:3003	1.99		.181	No_date 2:00	13.50 n/a
		04:3004	.40		.053	No_date 2:00	17.93 n/a
	[DT= 5.00] SUM=	05:3004.2	2.39		.234	No_date 2:00	14.24 n/a
007:0073	CALIB STANDHYD	01:3005	2.80		.075	No_date 2:10	7.12 .287
	[XIMP=.01:TIMP=.59]						

SWM.sum

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[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 91.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 368.:MNI=.013:SCI= .0]
007:0074-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:3005          2.80          .075 No_date  2:10  7.12 n/a
                + 02:Minor          .97          .017 No_date  2:04  6.51 n/a
                + 05:3004.2        2.39          .234 No_date  2:00 14.24 n/a
[DT= 1.00] SUM= 04:3005.2        6.16          .292 No_date  2:00  9.79 n/a
007:0075-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          03:3010.2        91.58          .560 No_date  2:37  3.09 n/a
                + 04:3005.2         6.16          .292 No_date  2:00  9.79 n/a
[DT= 1.00] SUM= 01:3005.2        97.74          .622 No_date  2:35  3.51 n/a
007:0076-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 03:3006          1.12          .096 No_date  2:00 13.56 .547
[XIMP=.01:TIMP=.86]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 53.:MNP=.035:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 94.:MNI=.013:SCI= .0]
007:0077-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:3005.2        97.74          .622 No_date  2:35  3.51 n/a
                + 03:3006          1.12          .096 No_date  2:00 13.56 n/a
[DT= 1.00] SUM= 04:3005.2       98.86          .636 No_date  2:34  3.63 n/a
007:0078-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 01:3009          1.93          .177 No_date  2:00 15.89 .641
[XIMP=.01:TIMP=.90]
[LOSS= 2 :CN= 64.5]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 58.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 217.:MNI=.013:SCI= .0]
007:0079-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:3009          1.93          .177 No_date  2:00 15.89 n/a
                + 04:3005.2       98.86          .636 No_date  2:34  3.63 n/a
[DT= 1.00] SUM= 03:3009.2       100.79         .667 No_date  2:32  3.86 n/a
007:0080-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          10:2004.2       226.94         1.353 No_date  2:43  3.97 n/a
                + 03:3009.2       100.79         .667 No_date  2:32  3.86 n/a
[DT= 1.00] SUM= 01:3009.2       327.73         1.995 No_date  2:39  3.94 n/a
007:0081-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 02:3007          2.08          .060 No_date  2:05  6.42 .259
[XIMP=.01:TIMP=.36]
[LOSS= 2 :CN= 72.4]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 47.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
007:0082-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:3009.2       327.73         1.995 No_date  2:39  3.94 n/a
                + 02:3007          2.08          .060 No_date  2:05  6.42 n/a
[DT= 1.00] SUM= 03:3007.2       329.81         2.010 No_date  2:38  3.95 n/a
007:0083-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB NASHYD   01:2005          2.85          .171 No_date  2:00  9.02 .364
[CN= 87.3: N= 3.00]
[Tp= .05:DT= 5.00]
007:0084-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:2005          2.85          .171 No_date  2:00  9.02 n/a
                + 03:3007.2       329.81         2.010 No_date  2:38  3.95 n/a
[DT= 1.00] SUM= 02:2005.2       332.66         2.033 No_date  2:38  4.00 n/a
007:0085-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
* CALIB STANDHYD 01:3008          1.61          .046 No_date  2:05  7.18 .290
[XIMP=.01:TIMP=.40]
[LOSS= 2 :CN= 74.3]
[Pervious area: IAper= 2.50:SLPP=3.40:LGP= 78.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 164.:MNI=.013:SCI= .0]
007:0086-----ID:NHYD-----AREA-----QPEAK-TpeakDate_hh:mm-----R.V.-R.C.-
ADD HYD          01:3008          1.61          .046 No_date  2:05  7.18 n/a
                + 02:2005.2       332.66         2.033 No_date  2:38  4.00 n/a

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                                SWM. sum
[DT= 1.00]  SUM= 03:3008.2  334.27  2.048 No_date  2:38  4.01 n/a
007:0087-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      01:5001      62.50   .118 No_date  2:30   .88 .036
[CN= 30.1: N= 3.00]
[Tp= .41:DT= 5.00]
007:0088-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ROUTE CHANNEL  -> 01:5001      62.50   .118 No_date  2:30   .88 n/a
[RD= 1.67] out<- 02:5.002  62.50   .109 No_date  2:42   .88 n/a
[L/S/n= 912./2.030/.050]
{Vmax= 1.544:Dmax= .004}
007:0089-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
CALIB NASHYD      03:5002      14.10   .042 No_date  2:20   1.05 .042
[CN= 34.0: N= 3.00]
[Tp= .25:DT= 5.00]
007:0090-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      04:5004      3.48   .094 No_date  2:05   5.71 .230
[CN= 78.0: N= 3.00]
[Tp= .10:DT= 5.00]
007:0091-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD
      02:5.002      62.50   .109 No_date  2:42   .88 n/a
      + 03:5002      14.10   .042 No_date  2:20   1.05 n/a
      + 04:5004      3.48   .094 No_date  2:05   5.71 n/a
[DT= 1.67]  SUM= 05:5002.2  80.08   .796 No_date  6:33   1.22 n/a
007:0092-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB NASHYD      01:5003      2.65   .030 No_date  2:10   2.92 .118
[CN= 61.0: N= 3.00]
[Tp= .14:DT= 5.00]
007:0093-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
ADD HYD
      01:5003      2.65   .030 No_date  2:10   2.92 n/a
      + 05:5002.2  80.08   .796 No_date  6:33   1.22 n/a
[DT= 1.67]  SUM= 02:5003.2  82.73   .796 No_date  6:33   1.28 n/a
007:0094-----ID:NHYD-----AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.-
* CALIB STANDHYD  01:SWALE      .50   .091 No_date  2:00   23.28 .939
[XIMP=.95:TIMP=.95]
[LOSS= 2 :CN= 73.1]
[Pervious area: IAPER= 2.50:SLPP=1.00:LGP= 13.:MNP=.034:SCP= .0]
[Impervious area: IAimp= .50:SLPI=1.50:LGI= 56.:MNI=.013:SCI= .0]
007:0002-----
FINISH

```

\*\*\*\*\*

WARNINGS / ERRORS / NOTES

```

001:0008 ROUTE CHANNEL  ->
*** WARNING: Requested routing DT > than inflow DT.
Routing DT set to inflow hydrograph DT.
001:0009 CALIB NASHYD
*** WARNING: Time step is too large for value of TP.
R.V. may be ok. Peak flow could be off.
001:0010 CALIB NASHYD
*** WARNING: Time step is too large for value of TP.
R.V. may be ok. Peak flow could be off.
001:0011 CALIB NASHYD
*** WARNING: Time step is too large for value of TP.
R.V. may be ok. Peak flow could be off.
001:0012 CALIB STANDHYD
*** WARNING: Storage Coefficient is smaller than DT!
Use a smaller DT or a larger area.
001:0013 CALIB NASHYD
*** WARNING: Time step is too large for value of TP.
R.V. may be ok. Peak flow could be off.

```



## **APPENDIX D**

### **Stormwater Management Calculations**

<b>During the 25 mm event</b>			
Subcatchment	Area (ha)	Runoff Volume (mm)	Runoff Volume (m <sup>3</sup> )
<b>West</b>			
4010A	0.35	16.911	59.2
4010B	0.21	4.732	N/A - undeveloped
4010C	0.14	11.538	16.2
			<b>75.3</b>
<b>East</b>			
4011A	0.12	11.936	14.3 <---- to be treated in existing SWM pond
4011B	0.1	13.329	13.3 <---- to be treated in existing SWM pond

<b>West Side of Site (Erosion Control and Supporting Quality Control)</b>				
Infiltration Gallery (standalone or open-bottom tank)				
CVC LID Guidelines recommend the infiltration gallery be setback a minimum of 4 m from the building foundation				
V =	VR * D * A			
t =	V / (A * f)			
VR =	0.4	Void Ratio		
V =	75.3 m <sup>3</sup>	Volume		
t =	34 hours	Drawdown time (24-48 hours required)		
f =	0.0104 m / hr	infiltration rate		
A =	213.0704 m <sup>2</sup>			
D =	0.884 m			
	1 m Depth			
	24 hours	36 hours	38.5 hours	48 hours
A =	301.85	201.23	188.17	150.92
D =	0.62	0.94	1	1.25
Approx Area available in west playground area is at least 300 m <sup>2</sup> . Therefore an infiltration gallery is feasible.				

<b>East Side of Site (Erosion Control and Quality Control)</b>									
Utilizing existing SWM facility northeast of the Waterdown Road and Hwy 403 interchange.									
Table 4.2 from the Detailed Design of Waterdown Road/Hwy 403 interchange SWM DB (Philips, Oct 2008)									
		Required	Designed	Available					
Permanent Pool		790	820	30	m <sup>3</sup>				
Extended Detention		500	630	130	m <sup>3</sup>				
Subcatchment	Area (ha)	Imp Area (Imp ha)	Imp %						
<b>Existing Drainage Area to Existing SWM Pond</b>									
	3003	1.99	0.96					48.2%	
	3004	0.4	0.28					70.1%	
	3005	2.8	1.66					59.3%	
	<b>Combined</b>	<b>5.19</b>	<b>2.90</b>					<b>55.9%</b>	
<b>Future Drainage Area of Burlington Church</b>									
	4011A	0.1	0.045					45.0%	
	4011B	0.12	0.045					37.5%	
	<b>Combined</b>	<b>0.22</b>	<b>0.09</b>					<b>40.9%</b>	
<b>Future Drainage Area to Existing SWM Pond</b>									
		<b>5.41</b>	<b>2.99</b>					<b>55.3%</b>	
For Wet Ponds providing enhanced T.S.S. removal (Table 3.2 - MOE Guidelines, 2003):									
Impervious %		35%	55%	70%	85%				
Storage Volume (m <sup>3</sup> /ha)		140	190	225	250				
<b>Contributing Drainage Area to the Ex SWM Pond</b>									
	Area (ha)	Imp Area (Imp ha)	Imp %	Storage Volume per area (m <sup>3</sup> /ha)			Storage Volume (m <sup>3</sup> )		
				PP+ED	PP	ED	PP	ED	
<b>Verify Existing</b>	<b>5.19</b>	<b>2.90</b>	<b>55.9%</b>	192.0	152.0	40.0	<b>789.1</b>	207.6	
Therefore, permanent pool volume is confirmed. Extended detention likely not based on Table 3.2 of MOE Guidelines.									
<b>Assess Future</b>	<b>5.41</b>	<b>2.99</b>	<b>55.3%</b>	190.6	150.6		<b>814.9</b>		
<b>During the 25 mm 4 hour Chicago Storm Event</b>									
<b>Future Drainage Area of Burlington Church</b>									
Subcatchment	Area (ha)		From SWMHYMO						
			Runoff Volume (mm)				Runoff Volume (m <sup>3</sup> )		
4011A	0.1		11.936				11.9		
4011B	0.12		13.329				16.0		
<b>Combined</b>	<b>0.22</b>						<b>27.9</b>		
Updating Table 4.2 (Detailed Design of Waterdown Road/Hwy 403 interchange SWM DB (Philips, Oct 2008)) with inclusion of subject site									
		Required	Designed	Available					
Permanent Pool		814.9	820	5.1	m <sup>3</sup>				<--- Water Quality for East of Site can be provided in Ex SWM Pond
Extended Detention		527.9	630	102.1	m <sup>3</sup>				<--- Erosion Control for East of Site can be provided in Ex SWM Pond





## Stormceptor Design Summary

### PCSWMM for Stormceptor

#### Project Information

Date	22/07/2016
Project Name	1350 Waterdown Road
Project Number	TPB163079
Location	Burlington

#### Designer Information

Company	Amec Foster Wheeler
Contact	M. Kuyntjes

#### Notes

It should be noted that the impervious area input into the model includes: asphalt and permeable pavers. Rooftop imperviousness was not included.

#### Drainage Area

Total Area (ha)	0.35
Imperviousness (%)	66

The Stormceptor System model STC 300 achieves the water quality objective removing 80% TSS for a Fine (organics, silts and sand) particle size distribution.

#### Stormceptor Sizing Summary

Stormceptor Model	TSS Removal
	%
<b>STC 300</b>	<b>80</b>
STC 750	86
STC 1000	86
STC 1500	87
STC 2000	90
STC 3000	91
STC 4000	93
STC 5000	93
STC 6000	95
STC 9000	96
STC 10000	96
STC 14000	97

#### Rainfall

Name	HAMILTON A
State	ON
ID	3194
Years of Records	1970 to 2003
Latitude	43°10'N
Longitude	79°56'W

#### Water Quality Objective

TSS Removal (%)	80
-----------------	----

#### Upstream Storage

Storage (ha-m)	Discharge (L/s)
0	0



### Particle Size Distribution

Removing silt particles from runoff ensures that the majority of the pollutants, such as hydrocarbons and heavy metals that adhere to fine particles, are not discharged into our natural water courses. The table below lists the particle size distribution used to define the annual TSS removal.

Fine (organics, silts and sand)							
Particle Size µm	Distribution %	Specific Gravity	Settling Velocity m/s	Particle Size µm	Distribution %	Specific Gravity	Settling Velocity m/s
20	20	1.3	0.0004				
60	20	1.8	0.0016				
150	20	2.2	0.0108				
400	20	2.65	0.0647				
2000	20	2.65	0.2870				

### Stormceptor Design Notes

- Stormceptor performance estimates are based on simulations using PCSWMM for Stormceptor version 1.0
- Design estimates listed are only representative of specific project requirements based on total suspended solids (TSS) removal.
- Only the STC 300 is adaptable to function with a catch basin inlet and/or inline pipes.
- Only the Stormceptor models STC 750 to STC 6000 may accommodate multiple inlet pipes.
- Inlet and outlet invert elevation differences are as follows:

#### **Inlet and Outlet Pipe Invert Elevations Differences**

Inlet Pipe Configuration	STC 300	STC 750 to STC 6000	STC 9000 to STC 14000
Single inlet pipe	75 mm	25 mm	75 mm
Multiple inlet pipes	75 mm	75 mm	Only one inlet pipe.

- Design estimates are based on stable site conditions only, after construction is completed.
- Design estimates assume that the storm drain is not submerged during zero flows. For submerged applications, please contact your local Stormceptor representative.
- Design estimates may be modified for specific spills controls. Please contact your local Stormceptor representative for further assistance.
- For pricing inquiries or assistance, please contact Imbrium Systems Inc., 1-800-565-4801.