

March 15, 2024

Project Number: 1474

David Schaeffer Engineering Ltd
120 Iber Road, Unit 103
Ottawa, Ontario
K2S 1E9

Attention: Marc Pichette, P.Eng

Subject: Barrhaven Conservancy West – Preliminary Water Balance

Introduction

Barrhaven Conservancy West Development is located in Barrhaven, Ontario, north of the Jock River, east of Highway 416 and west of Borrisokane Road. The proposed development is approximately **48.42 ha** that will primarily comprise of single and townhouse residential lots, stacked condos and a park. The following memo outlines how the proposed development will match/exceed the existing water budget through the use of LIDs.

Water Balance Overview

A pre- and post-development water balance has been completed for the site based on continuous hydrologic model simulations. As such a SWMHYMO model was developed that reflects the hydrologic conditions of these lands under pre-development, post-development without LIDs and post-development with LIDs conditions. These models were run using 36 years of hourly rainfall data from the Ottawa International Airport from 1967 to 2003 (excluding 2001 - missing rainfall data), and the average annual runoff volumes from the subject site were computed and compared. **Table A1 in Attachment A** outlines the continuous modelling parameters for both pre and post-development conditions. The following section outlines the modelling approach for each scenario and the results of this analysis.

Pre-Development

Based on the Soil Survey Complex mapping from the Ontario Ministry of Agriculture, Food, and Rural Affairs (OMAFRA) the site primarily consists of Carsonby - Silt (Type C) and Brandon -Silty Clay- (Type D) Soils. This was confirmed by Paterson Groups through onsite field investigations and boreholes which also reported Silt and Silty Clays through the majority of the site.

Based on the Southern Ontario Land Resource Information System (SOLRIS) the site consists primarily of tilled lands and hedgerows. Based on the underlying Land Use Type and Soil Classification at each location within a subcatchment, a Curve Number (CN) was calculated, based on applicable values outlined in **Tables A2 and A3** in the SWMHYMO Manual. Each Curve Number was then weighted based on the total area within the subcatchment to determine the weighted CN for that subcatchment. The CN value calculated was then converted to CN*, as CN* values have been shown to correlate well with measured flows and perform well in continuous SWMHYMO modelling (as discussed in the July 1989 INTERHYMO / OTTHYMO 89 Manual), when compared to conventional CN. Full details of the derivation of CN under existing conditions have been outlined in **Table A2** and **Figures A1 & A2** in **Attachment A**.

The time to peak (Tp) for these areas has been calculated based on existing topography. Flow paths have been discretized based on the topographic data using GIS tools and the longest major flow path within the subcatchment identified; refer to **Figure A3 in Attachment A** for the flow paths discretized for these lands. The upstream and downstream topographic elevations and flow lengths were identified for this subcatchment and used in the calculations. For these lands, the Federal Aviation Administration (FAA) method was determined to be the most appropriate method to calculate the Tp. Full details of these calculations have been provided in **Table A3 in Attachment A**, along with other time-to-peak values using alternative Tp calculation methods. This site under pre-development conditions has been represented in SWMHYMO using a CONTINUOUS NASHYD command, with all continuous parameters outlined in **Table A1 of Attachment A**. Note that the pre-development areas have been represented as 3 individual areas (Split by the Foster and Okeefe drains) with the results of the 3 areas added together to provide the full site pre-development water budget.

Post-Development – Without LIDs

Under post-development conditions, the site will have 6 individual storm sewer outlets, as such the development lands have been broken into these 6 discrete areas (with a total drainage area of **48.42 ha**, matching existing conditions). Based on the development conceptual plan, the **48.42 ha** site will have a total imperviousness of **70%**, see **Figure A4 in Attachment A** for an overview of the proposed development plan. These developed lands have been represented using CONTINUOUS STANDHYD commands in SWMHYMO. This scenario has been provided to quantify the average annual reduction in infiltration volume throughout the site due to the increase in impervious area.

To best represent infiltration over a long simulation period, and to provide a consistent comparison between pre- and post-development conditions, the SCS procedure was used to simulate infiltration over the subject site for both pre-and post-development conditions. Under post-development conditions, soils in the development areas will be defined by the characteristics of topsoil, which has a CN of **79** (CN* = **71**) for urban lawns in fair condition.

Post-Development – With LIDs

As mentioned above the proposed development will have LIDs implemented throughout the site to offset any deficit in annual infiltration volume produced by the increase in the impervious area due to the development. For this analysis, it is assumed that the development will have infiltration LIDs implemented at the road catch basins. Runoff captured by the road catch basins will be directed to an infiltration trench, where it can infiltrate before discharging to the storm sewer system (see *Figure 5* in the *DSEL Figures & Drawings* package for more details about the proposed LID configuration). A conceptual design of these LID systems has been completed but will be refined at detailed design when detailed grading is available, to yield optimal benefit from this LID approach. **Table 1** below outlines the parameters of these conceptual LIDs based on the current development plan. Based on this analysis the site on average will need **3.75 CBs** per impervious hectare of development. Each of the LID clusters has been represented in the model as single lumped ROUTE RESERVOIR commands, with the outflow of each command reflective of the soil infiltration rate and the volume reflective of the storage volume within each LID.

Soil Infiltration & Draw Down Time

Based on the Paterson Group's geotechnical Investigation, the site consists of soil that typically has infiltration rates in the range of **9 mm/hr - 25 mm/hr**. As such it has been assumed that this site will have an infiltration rate of 9mm/hr with a safety factor of 2.5 (3.6 mm/hr). Based on a trench height of 0.4 m (with a void ratio of 0.4) these trenches will have a draw downtime of approximately **45 hours**. Note that in this analysis it is assumed that only the bottom of the trench can infiltrate, which is a conservative assumption.

Table 1: Proposed LID Summary

Parameters	Total	W1	W2	W3	W4	W5	W6
Area (ha)	48.42	5.76	8.51	10.03	10.11	6.20	7.81
RC	0.72	0.66	0.62	0.73	0.69	0.67	0.77
Total Imp. (%)	70%	66%	60%	76%	70%	67%	81%
Imp Area (ha)	34.08	3.78	5.11	7.59	7.08	4.16	6.36
# of CBMH's	128	14	19	28	27	16	24
Pipe Dia (mm)	-	250	250	250	250	250	250
Perf. Pipe Length (m)	3840	420	570	840	810	480	720
Pipe Vol. (m ³)	188	21	28	41	40	24	35
Trench Width (m)	-	1.25	1.25	1.25	1.25	1.25	1.25
Trench Height (m)	-	0.4	0.4	0.4	0.4	0.4	0.4
Trench Length (m)	-	30	30	30	30	30	30
Void Ratio	-	0.4	0.4	0.4	0.4	0.4	0.4
Trench Vol. (m ³)	693	76	103	152	146	87	130
Total Vol. (m ³)	881	96	131	193	186	110	165
Area of Trench (m ²)	4800	525	713	1050	1013	600	900
Soil Infiltration Rate (mm/hr)	-	9	9	9	9	9	9
Safety Factor	-	2.5	2.5	2.5	2.5	2.5	2.5
Reduced Rate (mm/hr)	-	3.6	3.6	3.6	3.6	3.6	3.6
Infiltration rate (m ³ /hr)	-	0.0005	0.0007	0.0011	0.0010	0.0006	0.0009

Water Budget Scenario Summary

The models were run for 36 years using hourly rainfall data from the Ottawa Airport, and the annual evaporation, infiltration and runoff volumes were calculated for each scenario. **Tables 2-4** summarize the annual average water balance under existing conditions and post-development conditions for the proposed development lands with and without LID measures in place, as m³/year, mm/year and % of total annual rainfall.

Table 2:Pre-Development Water Balance

Drainage Area (ha)		48.42	Imperviousness:	7%
Annual Average Volume	Precipitation	Evapotranspiration	Runoff	Infiltration
m ³	288,466	188,545	35,419	64,503
mm	596	389	73	133
%	100%	65.4%	12.3%	22.4%

Table 3:Post Development Water Balance – Without LIDs

Drainage Area (ha)		48.42	Imperviousness:	70%
Annual Average Volume	Precipitation	Evapotranspiration	Runoff	Infiltration
m ³	288,466	107,821	148,079	32,566
mm	596	223	306	67
%	100.0%	37.4%	51.3%	11.3%

Table 4:Post Development Water Balance – With LIDs

Drainage Area (ha)		48.42	Imperviousness:	70%
Annual Average Volume	Precipitation	Evapotranspiration	Runoff	Infiltration
m ³	288,466	107,821	111,716	68,929
mm	596	223	231	142
%	100%	37.4%	38.7%	23.9%

Based on this analysis of pre-development conditions, this site will evaporate **65.4%**, runoff **12.3%** and infiltrate **22.4%** of all annual rainfall. Under post-development conditions without LIDs, this site will evaporate **37.4%**, runoff **51.3%** and infiltrate **11.3%** of all annual rainfall, resulting in a deficit of **66 mm/year** infiltrated from pre-development conditions. Under post-development conditions with LIDs, this site will evaporate **37.4%**, runoff **38.7%** and infiltrate **23.9%** of all annual rainfall, resulting in an exceedance of 9 mm/year infiltrated from pre-development conditions. Full annual breakdowns of the three conditions have been provided in **Attachment B, Tables B1-B3**. An average annual summary of the infiltration volume for each of the proposed LID measures is outlined in **Table B4**, which shows that the LIDs alone provide a total average annual infiltration volume of **75 mm/year**.

Conclusion

A preliminary water balance analysis of the existing site was completed to determine pre-development infiltration rates, based on continuous hydrologic model simulations. A post-development analysis for the site, where no LIDs were implemented, showed that the volume of annual rainfall infiltrated would decrease by **66 mm/yr. (-49% from existing)**. Implementing LIDs in the way of infiltration trenches connected to the catchbasins at a rate of **3.75 CB** per impervious hectare would exceed the annual infiltration rate by **9 mm/year (+1.5% from existing)**. Based on the above it has been shown that the Barrhaven Conservancy West Developments will be able to meet pre-development infiltration rates within **±5%** under post-development conditions through the use of LIDs.

Yours truly,
J.F Sabourin and Associates Inc.



Jonathon Burnett, P.Eng
Water Resources Engineer

cc: J.F Sabourin, M.Eng, P.Eng
Director of Water Resources Projects



Tables

- Table 1: Proposed LID Summary
- Table 2: Pre-Development Water Balance
- Table 3: Post Development Water Balance – Without LIDs
- Table 4: Post Development Water Balance – With LIDs

Attachments

- Attachment A: SWMHYMO Models & Parameters
- Attachment B: Water Budget Results

Modelling Files (Provided Electronically)

- SWMHYMO BCD_WEST-PRE_v03.dat
- BCD_WEST-POST_v03.dat



J.F. Sabourin and Associates Inc.
52 Springbrook Drive,
Ottawa, ON K2S 1B9
T 613-836-3884 F 613-836-0332

jfsa.com

Ottawa, ON
Paris, ON
Gatineau, QC
Montréal, QC
Québec, QC

Attachment A

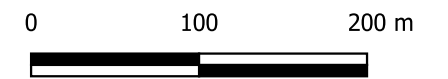
SWMHYMO Models & Parameters



Legend

- Soil Name (SCS Value)
- BRANDON (D)
- CARSONBY (C)
- Development Area

SCALE: 1:4500



Conservancy West

Figure A1: Soil Types

PROJECT	1474(03)
DRAWN	JB
DATE	March 2024



Legend

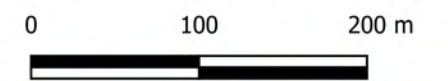
Land Use

 Hedge Rows

 Tilled

 Development Area

SCALE: 1:4500



Conservancy West

Figure A2: Land Use

PROJECT	1474(03)
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DRAWN	JB
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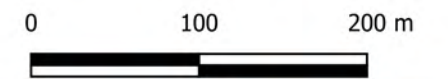
DATE	March 2024
------	------------



Legend

- Streams
- Major Flow Path
- Development Area
- Terrain (m)
 - 94.75
 - 90.5
- Contours
 - 0.25 m

SCALE: 1:4500



Conservancy West

Figure A3: Flow Paths

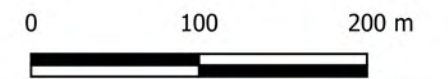
PROJECT	1474(03)
DRAWN	JB
DATE	March 2024



Legend

- Junctions
- Site Plan
- Minor System
- ▭ Lumped Areas:
<Name>
<Area>
<Runoff Coefficient>

SCALE: 1:4500



Conservancy West

Figure A4: Proposed Development

PROJECT	1474(03)
DRAWN	JB
DATE	March 2024

Table A1: Continuous Simulation Parameters

Parameter(s) & Value(s)	Description
APII=[50], APIK=[0.90]/day	Used to compute the Antecedent Precipitation Index during the continuous simulation. Without model calibration, these are the default values.
IAimp = [1.57](mm), IAper=[4.67](mm)	Default Initial Abstraction (IA) values per the City of Ottawa Design Guidelines
IaREC=[6](hrs);	The time that it takes for the Initial Abstraction over pervious areas to recover during a dry period in undeveloped areas.
SMIN=[-1], SMAX=[-1](mm)	The negative values indicate that the storage volume in the SCS procedure will vary between the "S" determined for AMC I and AMC III conditions of the entered CN value in undeveloped and urban areas.
SK=[0.03]/(mm);	A calibration coefficient that can typically vary from 0.01 to 0.3 for undeveloped and urban areas. The higher the value, the more runoff generated. To set the baseline for existing conditions, it was decided to take a value in the low range.
InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm), VhydCond=[1](mm/hr);	Parameters that are used to simulate both the groundwater storage and discharge to surface watercourses from undeveloped areas. Without adequate field measurements, these parameters were selected based on previous continuous modelling experience.
IaRECper=[6](hrs);	The time that it takes for the Initial Abstraction over pervious areas to recover during a dry period in urban areas.
IaRECimp=[1.5](hrs);	The time that it takes for the Initial Abstraction over impervious areas to recover during a dry period in urban areas.
InterEventTime=[12](hrs)	The continuous dry time is required to reset the parameters in the SCS procedure to their initial values.

Table A2: Calculation of SCS Curve Number (CN) and Modified Curve Number (CN*)

West_1 (14.27 ha)								
Area (ha)	Land Type	Soil Name	Soil Condition	Soil Group	CN	% of Catchment	Weighted CN	
8.979	Tilled	CARSONBY	C	Fair	79	62.9%	49.7	
4.166	Tilled	BRANDON	D	Fair	84	29.2%	24.5	
1.123	Hedge Rows	CARSONBY	C	Fair	70	7.9%	5.5	
							CN	79.7
							CN*	72

West_2 (20.138 ha)								
Area (ha)	Land Type	Soil Name	Soil Condition	Soil Group	CN	% of Catchment	Weighted CN	
4.879	Tilled	CARSONBY	C	Fair	79	24.2%	19.1	
15.117	Tilled	BRANDON	D	Fair	84	75.1%	63.1	
0.109	Hedge Rows	CARSONBY	C	Fair	70	0.5%	0.4	
0.034	Hedge Rows	BRANDON	D	Fair	77	0.2%	0.1	
							CN	82.7
							CN*	76

#REF!								
Area (ha)	Land Type	Soil Name	Soil Condition	Soil Group	CN	% of Catchment	Weighted CN	
14.007	Tilled	CARSONBY	C	Fair	79	100.0%	79.0	
							CN	79.0
							CN*	71

Table A3: Time to Peak Calculations

Parameter	Units	West_1	West_2	West_3
Area	ha	14.268	20.139	14.007
CN*	-	72	76	71
Ptotal to calc C from CN, use 2 yr 24 hr SCS stom	P(mm)	48.5	48.5	48.5
	la(mm)	4.67	4.67	4.67
	RV(mm)	13.5	15.6	13.0
	C	-	0.28	0.32
Ptotal to calc C from CN, use 2 yr 3 hr CHI stom	P(mm)	31.9	31.9	31.9
	la(mm)	4.67	4.67	4.67
	RV(mm)	5.9	7.0	5.6
	C	-	0.18	0.22
Length of Channel	m	541	619	764
	ft	1776	2029	2507
Elevation of Head Water	m	91.52	92.07	91.50
	ft	300	302	300
Elevation of Outlet	m	90.31	91.00	91.00
	ft	296	299	299
Average Slope	m/m	0.22%	0.17%	0.07%
	ft/ft	0.22%	0.17%	0.07%
Kirpich				
Time of Concentration	mins	26	32	54
Time to Peak	min	17	21	36
Time to Peak	Hours	0.29	0.35	0.60
FAA (SCS)				
Time of Concentration	mins	103	113	186
Time to Peak	mins	69	75	124
Time to Peak	Hours	1.14	1.26	2.07
FAA (CHI)				
Time of Concentration	mins	114	128	207
Time to Peak	mins	76	86	138
Time to Peak	Hours	1.27	1.43	2.29
Barnsby Williams				
Time of Concentration	mins	32	37	58
Time to Peak	mins	21	25	39
Time to Peak	Hours	0.36	0.42	0.65
SCS				
Time of Concentration	mins	134	151	337
Time to Peak	mins	90	100	225
Time to Peak	Hours	1.49	1.67	3.75
Selected Method				
FAA (SCS)				
Time to Peak	min	69	75	124
Time to Peak	Hours	1.14	1.26	2.07

Note:

All methods calculated as per Appendix A of the SWMHYMO manual

Time to Peak calculated as 2/3 Time of concentration

```

1  20      Metric units / ID Numbers OFF
2  *#*****
3  *# SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
4  *#*****
5  *# Project Name: Barrhaven Conservancy Development
6  *# Project Number: 1474
7  *# Date       : 2021/Oct/18
8  *# Modeller   : J.Burnett, P.Eng.
9  *# Updated    : 2022/Dec/07 [JB]
10 *# Updated    : 2022/Dec/13 [LP]
11 *# Updated    : 2024/Mar/14 [JB]
12 *# Company    : J.F. Sabourin and Associates
13 *# License #  : 2582634
14 *#*****
15 START          TZERO=[1967.0101], METOUT=[2], NSTORM=[0], NRUN=[67]
16 *%             [""] <--storm filename, one per line for NSTORM time
17 *%-----|-----
18 *# Ottawa International Airport (1967 - 2003)
19 READ AES DATA AES_FILENAME=["YOW_1967_2007.123"],
20                IELEM=[123], START_DATE=[0], END_DATE=[-364]
21 *%-----|-----
22 COMPUTE API    APII=[50], APIK=[0.90]/day
23 *%-----|-----
24 *#*****
25 *#           Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE
26 *#           DEVELOPMENT CONDITIONS
27 *#*****
28 CONTINUOUS NASHYD NHYD=["West_1"], DT=[5](min), AREA=[14.27](ha)
29                 DWF=[0](cms), CN/C=[72], IA=[4.67](mm), N=[3], TP=[1.14](hrs),
30                 Continuous simulation parameters:
31                 IaRECper=[6](hrs),SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
32                 InterEventTime=[12](hrs)
33                 Baseflow simulation parameters:
34                 BaseFlowOption=[1], InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm)
35                 VHydCond=[1.0](mm/hr), END=-1
36 *%-----|-----
37 CONTINUOUS NASHYD NHYD=["West_2"], DT=[5](min), AREA=[20.14](ha)
38                 DWF=[0](cms), CN/C=[76], IA=[4.67](mm), N=[3], TP=[1.26](hrs),
39                 Continuous simulation parameters:
40                 IaRECper=[6](hrs),SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
41                 InterEventTime=[12](hrs)
42                 Baseflow simulation parameters:
43                 BaseFlowOption=[1], InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm)
44                 VHydCond=[1.0](mm/hr), END=-1
45 *%-----|-----
46 CONTINUOUS NASHYD NHYD=["West_3"], DT=[5](min), AREA=[14.01](ha)
47                 DWF=[0](cms), CN/C=[71], IA=[4.67](mm), N=[3], TP=[2.07](hrs),
48                 Continuous simulation parameters:
49                 IaRECper=[6](hrs),SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
50                 InterEventTime=[12](hrs)
51                 Baseflow simulation parameters:
52                 BaseFlowOption=[1], InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm)
53                 VHydCond=[1.0](mm/hr), END=-1
54 *%-----|-----
55 ADD HYD          NHYDsum=["West-Total"], NHYDs to add=["West_1","West_2","West_3"]
56 *%-----|-----

```



```

54 *#*****
55 *#           Barrhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE
DEVELOPMENT CONDITIONS
56 *#*****
57 *#           Set infiltration to 0 (CN = 99.99) for water balance analysis
58 *#*****
59 CONTINUOUS NASHYD  NHYD=["INF-West_1"], DT=[5](min), AREA=[14.27](ha)
60                   DWF=[0](cms),  CN/C=[99.99], IA=[4.67](mm), N=[3], TP=[1.14](hrs),
61                   Continuous simulation parameters:
62                   IaREcper=[6](hrs),SMIN=[-1](mm),  SMAx=[-1](mm), SK=[0.00]/(mm),
                   InterEventTime=[12](hrs)
63                   Baseflow simulation parameters:
64                   BaseFlowOption=[1] , InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm)
65                   VHydCond=[1.0](mm/hr), END=-1
66 *%-----|-----
67 CONTINUOUS NASHYD  NHYD=["INF-West_2"], DT=[5](min), AREA=[20.14](ha)
68                   DWF=[0](cms),  CN/C=[99.99], IA=[4.67](mm), N=[3], TP=[1.26](hrs),
69                   Continuous simulation parameters:
70                   IaREcper=[6](hrs),SMIN=[-1](mm),  SMAx=[-1](mm), SK=[0.00]/(mm),
                   InterEventTime=[12](hrs)
71                   Baseflow simulation parameters:
72                   BaseFlowOption=[1] , InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm)
73                   VHydCond=[1.0](mm/hr), END=-1
74 *%-----|-----
75 CONTINUOUS NASHYD  NHYD=["INF-West_3"], DT=[5](min), AREA=[14.01](ha)
76                   DWF=[0](cms),  CN/C=[99.99], IA=[4.67](mm), N=[3], TP=[2.07](hrs),
77                   Continuous simulation parameters:
78                   IaREcper=[6](hrs),SMIN=[-1](mm),  SMAx=[-1](mm), SK=[0.00]/(mm),
                   InterEventTime=[12](hrs)
79                   Baseflow simulation parameters:
80                   BaseFlowOption=[1] , InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm)
81                   VHydCond=[1.0](mm/hr), END=-1
82 *%-----|-----
83 ADD HYD           NHYDsum=["INF-West-Total"], NHYDs to
add=["INF-West_1","INF-West_2","INF-West_3"]
84 *%-----|-----
85 *#####
86 *# CONTINUOUS RAINFALL DATA
87 *#####
88 *%-----|-----
89 *%-----|-----
90 START           TZERO=[1968.0101],  METOUT=[2],  NSTORM=[0],  NRUN=[68]
91 *%-----|-----
92 START           TZERO=[1969.0101],  METOUT=[2],  NSTORM=[0],  NRUN=[69]
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94 START           TZERO=[1970.0101],  METOUT=[2],  NSTORM=[0],  NRUN=[70]
95 *%-----|-----
96 START           TZERO=[1971.0101],  METOUT=[2],  NSTORM=[0],  NRUN=[71]
97 *%-----|-----
98 START           TZERO=[1972.0101],  METOUT=[2],  NSTORM=[0],  NRUN=[72]
99 *%-----|-----
100 START          TZERO=[1973.0101],  METOUT=[2],  NSTORM=[0],  NRUN=[73]
101 *%-----|-----

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102	START	TZERO=[1974.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[74]
103	*%-----				
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111	*%-----				
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118	START	TZERO=[1982.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[82]
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123	*%-----				
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125	*%-----				
126	START	TZERO=[1986.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[86]
127	*%-----				
128	START	TZERO=[1987.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[87]
129	*%-----				
130	START	TZERO=[1988.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[88]
131	*%-----				
132	START	TZERO=[1989.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[89]
133	*%-----				
134	START	TZERO=[1990.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[90]
135	*%-----				
136	START	TZERO=[1991.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[91]
137	*%-----				
138	START	TZERO=[1992.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[92]
139	*%-----				
140	START	TZERO=[1993.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[93]
141	*%-----				
142	START	TZERO=[1994.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[94]
143	*%-----				
144	START	TZERO=[1995.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[95]
145	*%-----				
146	START	TZERO=[1996.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[96]
147	*%-----				


```
148 START          TZERO=[1997.0101], METOUT=[2], NSTORM=[0], NRUN=[97]
149 *%-----|-----
-----|
150 START          TZERO=[1998.0101], METOUT=[2], NSTORM=[0], NRUN=[98]
151 *%-----|-----
-----|
152 START          TZERO=[1999.0101], METOUT=[2], NSTORM=[0], NRUN=[99]
153 *%-----|-----
-----|
154 START          TZERO=[2000.0101], METOUT=[2], NSTORM=[0], NRUN=[100]
155 *%-----|-----
-----|
156 *% MISSING FROM AES RAINFALL DATA
157 *%START          TZERO=[2001.0101], METOUT=[2], NSTORM=[0], NRUN=[101]
158 *%-----|-----
-----|
159 START          TZERO=[2002.0101], METOUT=[2], NSTORM=[0], NRUN=[102]
160 *%-----|-----
-----|
161 START          TZERO=[2003.0101], METOUT=[2], NSTORM=[0], NRUN=[103]
162 *%-----|-----
-----|
163 FINISH
```

```

00001 *****
00002 SSSS W W M M H H Y Y M M M O O 222 000 11 5555 *****
00003 S W W M M M H H Y Y M M M O O 2 0 0 11 5
00004 SSSS W W M M H H Y Y M M M O O 2 0 0 11 5 Ver 5.500
00005 S W W M M H H Y Y M M M O O 222 0 0 11 555 FEB 2013
00006 SSSS W W M M H H Y Y M M M O O 2 0 0 11 5 *****
00007 SSSS W W M M H H Y Y M M M O O 2 0 0 11 5 *****
00008 *****
00009 StormWater Management Hydrologic Model 222 000 11 555 *****
00010 *****
00011 ***** SWMHYD Ver 5.00 *****
00012 ***** A single event and continuous hydrologic simulation model *****
00013 ***** based on the principles of HYMO and its successors *****
00014 ***** HYMO-3 and CTRM-39. *****
00015 ***** Distributed by: J.F. Sabourin and Associates Inc. *****
00016 ***** Ottawa, Ontario: (613) 856-3884 *****
00017 ***** Gatineau, Quebec: (819) 243-6858 *****
00018 ***** E-Mail: sasm@jfsa.com *****
00019 *****
00020 *****
00021 *****
00022 *****
00023 ***** Licensed user: JFSaInc. *****
00024 ***** SERIAL#:2549237 *****
00025 *****
00026 *****
00027 *****
00028 ***** PROGRAM ARRAY DIMENSIONS *****
00029 ***** *****
00030 ***** Maximum Value for ID numbers : 31 *****
00031 ***** Max. number of rainfall points: 105408 *****
00032 *****
00033 *****
00034 *****
00035 ***** S U M M A R Y O U T P U T *****
00036 ***** *****
00037 ***** RUN DATE: 2024-03-14 TIME: 20:05:04 RUN COUNTER: 098081 *****
00038 *****
00039 ***** Input file: C:\Temp\20240306-Pre-Dev\BCD_WEST-PRE_v03.dat *****
00040 ***** Output file: C:\Temp\20240306-Pre-Dev\BCD_WEST-PRE_v03.out *****
00041 ***** Summary file: C:\Temp\20240306-Pre-Dev\BCD_WEST-PRE_v03.sum *****
00042 ***** User comments: *****
00043 ***** 1. *****
00044 ***** 2. *****
00045 ***** 3. *****
00046 ***** *****
00047 *****
00048 *****
00049 *****
00050 *****
00051 ***** SWMHYD Ver:02/Jan 2001 <BETA> / INPUT DATA FILE *****
00052 ***** *****
00053 ***** Project Name: Barhaven Conservancy Development *****
00054 ***** Project Number: 1474 *****
00055 ***** Date : 2021/Oct/18 *****
00056 ***** Modeler : J.Burnett, P.Eng. *****
00057 ***** Updated : 2022/Dec/07 [LB] *****
00058 ***** Updated : 2022/Dec/13 [LP] *****
00059 ***** Updated : 2024/Mar/14 [SB] *****
00060 ***** Company : J.F. Sabourin and Associates *****
00061 ***** License # : 2582634 *****
00062 ***** *****
00063 ***** ** END OF RUN : 66 *****
00064 *****
00065 *****
00066 *****
00067 *****
00068 *****
00069 *****
00070 *****
00071 ***** RUN:COMMAND *****
00072 ***** RO66:CO0001 *****
00073 ***** START *****
00074 ***** [ITER=0 :.00 hrs on 19670101] *****
00075 ***** [MET=0 : 2 (Impervial, Spheric output)] *****
00076 ***** [INST=0 : 0] *****
00077 ***** [RUN = 0061] *****
00078 ***** *****
00079 ***** SWMHYD Ver:02/Jan 2001 <BETA> / INPUT DATA FILE *****
00080 ***** *****
00081 ***** Project Name: Barhaven Conservancy Development *****
00082 ***** Project Number: 1474 *****
00083 ***** Date : 2021/Oct/18 *****
00084 ***** Modeler : J.Burnett, P.Eng. *****
00085 ***** Updated : 2022/Dec/07 [LB] *****
00086 ***** Updated : 2022/Dec/13 [LP] *****
00087 ***** Updated : 2024/Mar/14 [SB] *****
00088 ***** Company : J.F. Sabourin and Associates *****
00089 ***** License # : 2582634 *****
00090 ***** *****
00091 ***** Ottawa International Airport (1967 - 2003) *****
00092 ***** RO67:CO0002 *****
00093 ***** READ AES DATA *****
00094 ***** [Filename = YOM_1967_2007_123] *****
00095 ***** [Start_date = 1967-01-01; End_date = 1967-12-31] *****
00096 ***** [DT= 60; min Length= 3884; hrs; WetHrs= 2571; DryHrs= 3727; PTO= 386.90] *****
00097 ***** Maximum average rainfall intensities over *****
00098 ***** 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs *****
00099 ***** 24.60 35.30 39.60 43.00 46.40 62.30 63.20 64.90 mm/hr *****
00100 ***** 19670921 19670921 19670921 19670921 19670921 19670922 19670923 19670924 date *****
00101 ***** Number of rainfall events per following interevent time *****
00102 ***** 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs *****
00103 ***** 80 65 56 40 24 20 18 *****
00104 ***** Number of events with at least the following durations *****
00105 ***** 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs *****
00106 ***** 79 42 29 14 3 0 0 0 *****
00107 ***** *****
00108 ***** RO67:CO0003 *****
00109 ***** COMPUTE API *****
00110 ***** [APIInle = 50.00; APIkty = 9000; APIkmc = 9956] *****
00111 ***** [APIMax = 76.77; APIAvg = 24.91; APImin = 3.06] *****
00112 ***** *****
00113 ***** Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS *****
00114 ***** *****
00115 ***** RO67:CO0004 *****
00116 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00117 ***** CONTINUOUS NASHYD 5.0 01:West_1 14.27 .144 1967.0921.18150 63.09 163 .000 *****
00118 ***** [CN = 72.0; W: 3.00; Tpe = 1.24] *****
00119 ***** [IAREC = 6.00; EMIN = 39.75; SMAX=264.99; SK = .030] *****
00120 ***** [InterEventTime = 12.00] *****
00121 ***** RO67:CO0005 *****
00122 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00123 ***** CONTINUOUS NASHYD 5.0 01:West_2 20.14 .221 1967.0921.19105 70.91 183 .000 *****
00124 ***** [CN = 72.0; W: 3.00; Tpe = 1.24] *****
00125 ***** [IAREC = 6.00; EMIN = 32.46; SMAX=216.39; SK = .030] *****
00126 ***** [InterEventTime = 12.00] *****
00127 ***** RO67:CO0006 *****
00128 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00129 ***** CONTINUOUS NASHYD 5.0 01:West_3 14.01 .102 1967.0921.20115 61.60 159 .000 *****
00130 ***** [CN = 72.0; W: 3.00; Tpe = 2.07] *****
00131 ***** [IAREC = 6.00; EMIN = 41.38; SMAX=275.84; SK = .030] *****
00132 ***** [InterEventTime = 12.00] *****
00133 ***** RO67:CO0007 *****
00134 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00135 ***** ADD HYD + 5.0 02:West_1 14.27 .144 1967.0921.18150 63.09 n/a .000 *****
00136 ***** + 5.0 02:West_2 20.14 .221 1967.0921.19105 70.91 n/a .000 *****
00137 ***** + 5.0 02:West_3 14.01 .102 1967.0921.20115 61.60 n/a .000 *****
00138 ***** SMM = 5.0 01:West-Total 48.42 .451 1967.0921.19115 65.91 n/a .000 *****
00139 ***** *****
00140 ***** Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS *****
00141 ***** *****
00142 ***** RO67:CO0008 *****
00143 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00144 ***** CONTINUOUS NASHYD 5.0 01:IN-West_1 14.27 .389 1967.0921.18120 157.58 407 .000 *****
00145 ***** [CN = 100.0; W: 3.00; Tpe = 1.41] *****
00146 ***** [IAREC = 6.00; EMIN = 1.39; SMAX = 9.24; SK = .000] *****
00147 ***** [InterEventTime = 12.00] *****
00148 ***** RO67:CO0009 *****
00149 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00150 ***** CONTINUOUS NASHYD 5.0 01:IN-West_2 20.14 .517 1967.0921.18130 157.58 407 .000 *****
00151 ***** [CN = 100.0; W: 3.00; Tpe = 1.41] *****
00152 ***** [IAREC = 6.00; EMIN = 1.39; SMAX = 9.24; SK = .000] *****
00153 ***** [InterEventTime = 12.00] *****
00154 ***** RO67:CO0010 *****
00155 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00156 ***** CONTINUOUS NASHYD 5.0 01:IN-West_3 14.01 .260 1967.0921.19130 157.58 407 .000 *****
00157 ***** [CN = 100.0; W: 3.00; Tpe = 2.07] *****
00158 ***** [IAREC = 6.00; EMIN = 1.39; SMAX = 9.24; SK = .000] *****
00159 ***** [InterEventTime = 12.00] *****
00160 ***** RO67:CO0011 *****
00161 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00162 ***** ADD HYD + 5.0 02:IN-West_1 14.27 .389 1967.0921.18120 157.58 n/a .000 *****
00163 ***** + 5.0 02:IN-West_2 20.14 .517 1967.0921.18130 157.58 n/a .000 *****
00164 ***** + 5.0 02:IN-West_3 14.01 .260 1967.0921.19130 157.58 n/a .000 *****
00165 ***** SMM = 5.0 01:IN-West-7 48.42 .122 1967.0921.18135 157.58 n/a .000 *****
00166 ***** *****
00167 ***** *****
00168 ***** *****
00169 ***** *****
00170 ***** *****
00171 ***** RUN:COMMAND *****
00172 ***** RO66:CO0001 *****
00173 ***** START *****
00174 ***** [ITER=0 :.00 hrs on 19680101] *****
00175 ***** [MET=0 : 2 (Impervial, Spheric output)] *****
00176 ***** [INST=0 : 0] *****
00177 ***** [RUN = 0068] *****
00178 ***** *****
00179 ***** SWMHYD Ver:02/Jan 2001 <BETA> / INPUT DATA FILE *****
00180 ***** *****
00181 ***** Project Name: Barhaven Conservancy Development *****
00182 ***** Project Number: 1474 *****
00183 ***** Date : 2021/Oct/18 *****
00184 ***** Modeler : J.Burnett, P.Eng. *****
00185 ***** Updated : 2022/Dec/07 [LB] *****
00186 ***** Updated : 2022/Dec/13 [LP] *****
00187 ***** Updated : 2024/Mar/14 [SB] *****
00188 ***** Company : J.F. Sabourin and Associates *****
00189 ***** License # : 2582634 *****
00190 ***** *****
00191 ***** Ottawa International Airport (1967 - 2003) *****
00192 ***** RO68:CO0003 *****
00193 ***** READ AES DATA *****
00194 ***** [Filename = YOM_1967_2007_123] *****
00195 ***** [Start_date = 1968-01-01; End_date = 1968-12-31] *****
00196 ***** [DT= 60; min Length= 8760; hrs; WetHrs= 4131; DryHrs= 8347; PTO= 592.80] *****
00197 ***** Maximum average rainfall intensities over *****
00198 ***** 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs *****
00199 ***** 33.30 37.00 39.30 41.30 44.30 64.30 64.30 64.30 mm/hr *****
00200 ***** 19680117 19680117 19680117 19680117 19680117 19680118 19680119 19680120 date *****
00201 ***** Number of rainfall events per following interevent time *****
00202 ***** 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs *****
00203 ***** 137 105 95 84 72 63 48 43 36 *****
00204 ***** Number of events with at least the following durations *****
00205 ***** 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs *****
00206 ***** 126 76 49 18 5 0 0 0 *****
00207 ***** *****
00208 ***** RO68:CO0003 *****
00209 ***** COMPUTE API *****
00210 ***** [APIInle = 50.00; APIkty = 9000; APIkmc = 9956] *****
00211 ***** [APIMax = 76.77; APIAvg = 16.74; APImin = .27] *****
00212 ***** *****
00213 ***** Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS *****
00214 ***** *****
00215 ***** RO68:CO0004 *****
00216 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00217 ***** CONTINUOUS NASHYD 5.0 01:West_1 14.27 .151 1968.0817.5155 67.82 114 .000 *****
00218 ***** [CN = 72.0; W: 3.00; Tpe = 1.24] *****
00219 ***** [IAREC = 6.00; EMIN = 39.75; SMAX=264.99; SK = .030] *****
00220 ***** [InterEventTime = 12.00] *****
00221 ***** RO68:CO0005 *****
00222 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00223 ***** CONTINUOUS NASHYD 5.0 01:West_2 20.14 .223 1968.0817.6100 77.21 130 .000 *****
00224 ***** [CN = 72.0; W: 3.00; Tpe = 1.24] *****
00225 ***** [IAREC = 6.00; EMIN = 32.46; SMAX=216.39; SK = .030] *****
00226 ***** [InterEventTime = 12.00] *****
00227 ***** RO68:CO0006 *****
00228 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00229 ***** CONTINUOUS NASHYD 5.0 01:West_3 14.01 .082 1968.0817.6150 66.09 111 .000 *****
00230 ***** [CN = 72.0; W: 3.00; Tpe = 2.07] *****
00231 ***** [IAREC = 6.00; EMIN = 41.38; SMAX=275.84; SK = .030] *****
00232 ***** [InterEventTime = 12.00] *****
00233 ***** RO68:CO0007 *****
00234 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00235 ***** ADD HYD + 5.0 02:West_1 14.27 .151 1968.0817.5155 67.82 n/a .000 *****
00236 ***** + 5.0 02:West_2 20.14 .223 1968.0817.6100 77.21 n/a .000 *****
00237 ***** + 5.0 02:West_3 14.01 .082 1968.0817.6150 66.09 n/a .000 *****
00238 ***** SMM = 5.0 01:West-Total 48.42 .442 1968.0817.6100 71.18 n/a .000 *****
00239 ***** *****
00240 ***** Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS *****
00241 ***** *****
00242 ***** RO68:CO0008 *****
00243 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00244 ***** CONTINUOUS NASHYD 5.0 01:IN-West_1 14.27 .406 1968.0817.5145 210.47 355 .000 *****
00245 ***** [CN = 100.0; W: 3.00; Tpe = 1.41] *****
00246 ***** [IAREC = 6.00; EMIN = 1.39; SMAX = 9.24; SK = .000] *****
00247 ***** [InterEventTime = 12.00] *****
00248 ***** RO68:CO0009 *****
00249 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00250 ***** CONTINUOUS NASHYD 5.0 01:IN-West_2 20.14 .522 1968.0817.5155 210.47 355 .000 *****
00251 ***** [CN = 100.0; W: 3.00; Tpe = 1.41] *****
00252 ***** [IAREC = 6.00; EMIN = 1.39; SMAX = 9.24; SK = .000] *****
00253 ***** [InterEventTime = 12.00] *****
00254 ***** RO68:CO0010 *****
00255 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00256 ***** ADD HYD + 5.0 02:IN-West_1 14.27 .406 1968.0817.5145 210.47 n/a .000 *****
00257 ***** + 5.0 02:IN-West_2 20.14 .522 1968.0817.5155 210.47 n/a .000 *****
00258 ***** + 5.0 02:IN-West_3 14.01 .226 1968.0817.6140 210.47 n/a .000 *****
00259 ***** SMM = 5.0 01:IN-West-7 48.42 .113 1968.0817.5155 210.47 n/a .000 *****
00260 ***** *****
00261 ***** *****
00262 ***** *****
00263 ***** *****
00264 ***** *****
00265 ***** *****
00266 ***** *****
00267 ***** *****
00268 ***** *****
00269 ***** *****
00270 ***** *****
00271 ***** RUN:COMMAND *****
00272 ***** RO66:CO0001 *****
00273 ***** START *****
00274 ***** [ITER=0 :.00 hrs on 19690101] *****
00275 ***** [MET=0 : 2 (Impervial, Spheric output)] *****
00276 ***** [INST=0 : 0] *****
00277 ***** [RUN = 0068] *****
00278 ***** *****
00279 ***** SWMHYD Ver:02/Jan 2001 <BETA> / INPUT DATA FILE *****
00280 ***** *****
00281 ***** Project Name: Barhaven Conservancy Development *****
00282 ***** Project Number: 1474 *****
00283 ***** Date : 2021/Oct/18 *****
00284 ***** Modeler : J.Burnett, P.Eng. *****
00285 ***** Updated : 2022/Dec/07 [LB] *****
00286 ***** Updated : 2022/Dec/13 [LP] *****
00287 ***** Updated : 2024/Mar/14 [SB] *****
00288 ***** Company : J.F. Sabourin and Associates *****
00289 ***** License # : 2582634 *****
00290 ***** *****
00291 ***** Ottawa International Airport (1967 - 2003) *****
00292 ***** RO69:CO0001 *****
00293 ***** READ AES DATA *****
00294 ***** [Filename = YOM_1967_2007_123] *****
00295 ***** [Start_date = 1969-01-01; End_date = 1969-12-31] *****
00296 ***** [DT= 60; min Length= 8760; hrs; WetHrs= 4701; DryHrs= 8290; PTO= 570.30] *****
00297 ***** Maximum average rainfall intensities over *****
00298 ***** 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs *****
00299 ***** 21.10 26.20 32.50 46.70 47.20 50.30 50.30 52.10 54.00 mm/hr *****
00300 ***** 19690818 19690818 19690818 19690819 19690819 19690819 19690819 19690819 date *****
00301 ***** Number of rainfall events per following interevent time *****
00302 ***** 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs *****
00303 ***** 157 119 107 92 72 58 49 43 32 *****
00304 ***** Number of events with at least the following durations *****
00305 ***** 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs *****
00306 ***** 156 84 58 21 5 0 0 0 *****
00307 ***** *****
00308 ***** RO69:CO0003 *****
00309 ***** COMPUTE API *****
00310 ***** [APIInle = 50.00; APIkty = 9000; APIkmc = 9956] *****
00311 ***** [APIMax = 56.77; APIAvg = 16.06; APImin = .06] *****
00312 ***** *****
00313 ***** Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS *****
00314 ***** *****
00315 ***** RO69:CO0004 *****
00316 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00317 ***** CONTINUOUS NASHYD 5.0 01:West_1 14.27 .135 1969.0819.2150 55.35 097 .000 *****
00318 ***** [CN = 72.0; W: 3.00; Tpe = 1.24] *****
00319 ***** [IAREC = 6.00; EMIN = 39.75; SMAX=264.99; SK = .030] *****
00320 ***** [InterEventTime = 12.00] *****
00321 ***** RO69:CO0005 *****
00322 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00323 ***** CONTINUOUS NASHYD 5.0 01:West_2 20.14 .196 1969.0819.3100 63.40 111 .000 *****
00324 ***** [CN = 72.0; W: 3.00; Tpe = 2.07] *****
00325 ***** [IAREC = 6.00; EMIN = 32.46; SMAX=216.39; SK = .030] *****
00326 ***** [InterEventTime = 12.00] *****
00327 ***** RO69:CO0006 *****
00328 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00329 ***** CONTINUOUS NASHYD 5.0 01:West_3 14.01 .086 1969.0819.3135 53.87 094 .000 *****
00330 ***** [CN = 72.0; W: 3.00; Tpe = 2.07] *****
00331 ***** [IAREC = 6.00; EMIN = 41.38; SMAX=275.84; SK = .030] *****
00332 ***** [InterEventTime = 12.00] *****
00333 ***** RO69:CO0007 *****
00334 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00335 ***** ADD HYD + 5.0 02:West_1 14.27 .135 1969.0819.2150 55.35 n/a .000 *****
00336 ***** + 5.0 02:West_2 20.14 .196 1969.0819.3100 63.40 n/a .000 *****
00337 ***** + 5.0 02:West_3 14.01 .086 1969.0819.3135 53.87 n/a .000 *****
00338 ***** SMM = 5.0 01:West-Total 48.42 .410 1969.0819.3100 58.27 n/a .000 *****
00339 ***** *****
00340 ***** Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS *****
00341 ***** *****
00342 ***** RO69:CO0008 *****
00343 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00344 ***** CONTINUOUS NASHYD 5.0 01:IN-West_1 14.27 .360 1969.0819.2140 191.45 336 .000 *****
00345 ***** [CN = 100.0; W: 3.00; Tpe = 1.41] *****
00346 ***** [IAREC = 6.00; EMIN = 1.39; SMAX = 9.24; SK = .000] *****
00347 ***** [InterEventTime = 12.00] *****
00348 ***** RO69:CO0009 *****
00349 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00350 ***** CONTINUOUS NASHYD 5.0 01:IN-West_2 20.14 .467 1969.0819.2145 191.45 336 .000 *****
00351 ***** [CN = 100.0; W: 3.00; Tpe = 1.41] *****
00352 ***** [IAREC = 6.00; EMIN = 1.39; SMAX = 9.24; SK = .000] *****
00353 ***** [InterEventTime = 12.00] *****
00354 ***** RO69:CO0010 *****
00355 ***** [DtmIn-ID:INHYD] *****AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R,C-----DWfms
00356 ***** ADD HYD + 5.0 02:IN-West_1 14.27 .360 1969.0819.2140 191.45 n/a .000 *****
00357 ***** + 5.0 02:IN-West_2 20.14 .467 1969.0819.2145 191.45 n/a .000 *****
00358 ***** + 5.0 02:IN-West_3 14.01 .207 1969.0819.2130 191.45 n/a .000 *****
00359 ***** SMM = 5.0 01:IN-West-7 48.42 .998 1969.0819.2145 191.45 n/a .000 *****
00360 ***** *****

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00361> # CONTINUOUS RAINFALL DATA
00362> #####
00363> ** END OF RUN : 69
00364>
00365>
00366>
00367>
00368>
00369>
00370>
00371> RUN: [COMMAND]
00372> R0703:C00001
00373> START
00374> [ITER0 = .00 hrs on 19701010]
00375> [MET05 = 2 (Imperial, 2metric output)]
00376> [INST00M = 0]
00377> [NRUN = 2012]
00378> #####
00379> # SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00380> #####
00381> # Project Name: Barhoven Conservancy Development
00382> # Project Number: 1474
00383> # Date : 2021/Oct/18
00384> # Modeler : J.Burnett, P.Eng.
00385> # Updated : 2022/Dec/07 [JB]
00386> # Updated : 2022/Dec/13 [JP]
00387> # Updated : 2024/Mar/14 [JFS]
00388> # Company : J.F. Sabourin and Associates
00389> # License # : 2582634
00390> #####
00391> # Ottawa International Airport (1967 - 2003)
00392> R0703:C00002
00393> READ AES DATA
00394> [Filename = YOM_1967_2007_123 ]
00395> [Start_date = 1970.0101; End_date = 1970.1231]
00396> [DT= 60,min; Length= 8760,hrs; WetHrs= 3731; DryHrs= 8387; PTOT= 588.90]
00397> Maxima average rainfall intensities over
00398> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00399> 35.30 18.30 12.20 6.10 3.63 1.81 1.21 1.46 .99
00400> 35.30 36.50 36.50 66.60 43.50 43.50 65.90 71.20 mm
00401> 19700926 19700926 19700926 19700927 19700811 19700818 19700826 19700926 19700927 date
00402> Number of rainfall events per following interevent time
00403> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00404> 148 127 109 84 60 54 41 30
00405> Number of events with at least the following durations
00406> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00407> 147 79 49 15 3 0 0 0
00408> R0703:C00003
00409> COMPUTE API
00410> [APIIn= 50.00; APIKey= 9000; APIkdc= 9956]
00411> [APIMax= 76.00; APIAvg= 15.84; APImin= .07]
00412> #####
00413> # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00414> #####
00415> R0703:C00004-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00416> CONTINUOUS NASRYD 5.0 01:West_1 14.27 .193 1970.0926.22:00 52.85 095 .000
00417> [CN= 12.0; B= 3.00; Tpe= 1.24]
00418> [IAREC= 6.00; EMIN= 39.75; SMAX=264.99; SK= .030]
00419> [InterventTime= 12.00]
00420> R0703:C00005-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00421> CONTINUOUS NASRYD 5.0 01:West_2 20.14 .282 1970.0926.22:05 60.26 108 .000
00422> [CN= 12.0; B= 3.00; Tpe= 1.24]
00423> [IAREC= 6.00; EMIN= 32.46; SMAX=216.39; SK= .030]
00424> [InterventTime= 12.00]
00425> R0703:C00006-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00426> CONTINUOUS NASRYD 5.0 01:West_3 14.01 .108 1970.0926.22:55 51.48 092 .000
00427> [CN= 12.0; B= 3.00; Tpe= 1.24]
00428> [IAREC= 6.00; EMIN= 41.38; SMAX=275.84; SK= .030]
00429> [InterventTime= 12.00]
00430> R0703:C00007-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00431> ADD HYD + 5.0 02:West_1 14.27 .193 1970.0926.22:00 52.85 n/a .000
00432> + 5.0 02:West_2 20.14 .282 1970.0926.22:05 60.26 n/a .000
00433> + 5.0 02:West_3 14.01 .108 1970.0926.22:55 51.48 n/a .000
00434> SSM= 5.0 01:West-Total 48.42 .562 1970.0926.22:10 35.33 n/a .000
00435> # Barhoven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00436> #####
00437> # Set infiltration to 0 (CN = 99.99) for water balance analysis
00438> #####
00439> R0703:C00008-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00440> CONTINUOUS NASRYD 5.0 01:INW-West_1 14.27 .436 1970.0926.21:50 178.67 320 .000
00441> [CN= 12.0; B= 3.00; Tpe= 1.24]
00442> [IAREC= 6.00; EMIN= 1.39; SMAX= 9.24; SK= .000]
00443> [InterventTime= 12.00]
00444> R0703:C00009-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00445> CONTINUOUS NASRYD 5.0 01:INW-West_2 20.14 .563 1970.0926.21:55 178.67 320 .000
00446> [CN= 12.0; B= 3.00; Tpe= 1.24]
00447> [IAREC= 6.00; EMIN= 1.39; SMAX= 9.24; SK= .000]
00448> [InterventTime= 12.00]
00449> R0703:C00010-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00450> CONTINUOUS NASRYD 5.0 01:INW-West_3 14.01 .247 1970.0926.22:45 178.67 320 .000
00451> [CN= 12.0; B= 3.00; Tpe= 1.24]
00452> [IAREC= 6.00; EMIN= 1.39; SMAX= 9.24; SK= .000]
00453> [InterventTime= 12.00]
00454> R0703:C00011-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00455> ADD HYD + 5.0 02:INW-West_1 14.27 .436 1970.0926.21:50 178.67 n/a .000
00456> + 5.0 02:INW-West_2 20.14 .563 1970.0926.21:55 178.67 n/a .000
00457> + 5.0 02:INW-West_3 14.01 .247 1970.0926.22:45 178.67 n/a .000
00458> SSM= 5.0 01:INW-West-7 48.42 .139 1970.0926.22:00 178.67 n/a .000
00459> #####
00460> #####
00461> # CONTINUOUS RAINFALL DATA
00462> #####
00463> ** END OF RUN : 70
00464>
00465>
00466>
00467>
00468>
00469>
00470>
00471> RUN: [COMMAND]
00472> R0703:C00001
00473> START
00474> [ITER0 = .00 hrs on 19701010]
00475> [MET05 = 2 (Imperial, 2metric output)]
00476> [INST00M = 0]
00477> [NRUN = 2012]
00478> #####
00479> # SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00480> #####
00481> # Project Name: Barhoven Conservancy Development
00482> # Project Number: 1474
00483> # Date : 2021/Oct/18
00484> # Modeler : J.Burnett, P.Eng.
00485> # Updated : 2022/Dec/07 [JB]
00486> # Updated : 2022/Dec/13 [JP]
00487> # Updated : 2024/Mar/14 [JFS]
00488> # Company : J.F. Sabourin and Associates
00489> # License # : 2582634
00490> #####
00491> # Ottawa International Airport (1967 - 2003)
00492> R0703:C00002
00493> READ AES DATA
00494> [Filename = YOM_1967_2007_123 ]
00495> [Start_date = 1970.0101; End_date = 1971.1231]
00496> [DT= 60,min; Length= 8760,hrs; WetHrs= 4121; DryHrs= 8348; PTOT= 522.10]
00497> Maxima average rainfall intensities over
00498> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00499> 24.60 16.60 11.67 6.13 3.09 1.56 1.06 .79 .54 mm/hr
00500> 24.60 31.20 35.00 36.80 37.10 37.40 38.00 38.00 38.90
00501> 19710810 19710810 19710810 19710810 19710810 19710810 19710812 19710812 19710810 date
00502> Number of rainfall events per following interevent time
00503> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00504> 156 123 113 93 72 61
00505> Number of events with at least the following durations
00506> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00507> 155 81 59 21 2 0 0 0
00508> R0703:C00003
00509> COMPUTE API
00510> [APIIn= 50.00; APIKey= 9000; APIkdc= 9956]
00511> [APIMax= 62.22; APIAvg= 14.84; APImin= .36]
00512> #####
00513> # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00514> #####
00515> R0703:C00004-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00516> CONTINUOUS NASRYD 5.0 01:West_1 14.27 .140 1971.0810.16:30 39.74 076 .000
00517> [CN= 12.0; B= 3.00; Tpe= 1.24]
00518> [IAREC= 6.00; EMIN= 39.75; SMAX=264.99; SK= .030]
00519> [InterventTime= 12.00]
00520> R0703:C00005-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00521> CONTINUOUS NASRYD 5.0 01:West_2 20.14 .212 1971.0810.16:35 45.48 087 .000
00522> [CN= 12.0; B= 3.00; Tpe= 1.24]
00523> [IAREC= 6.00; EMIN= 32.46; SMAX=216.39; SK= .030]
00524> [InterventTime= 12.00]
00525> R0703:C00006-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00526> CONTINUOUS NASRYD 5.0 01:West_3 14.01 .085 1971.0810.17:20 38.68 074 .000
00527> [CN= 12.0; B= 3.00; Tpe= 1.24]
00528> [IAREC= 6.00; EMIN= 41.38; SMAX=275.84; SK= .030]
00529> [InterventTime= 12.00]
00530> R0703:C00007-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00531> ADD HYD + 5.0 02:West_1 14.27 .140 1971.0810.16:30 39.74 n/a .000
00532> + 5.0 02:West_2 20.14 .212 1971.0810.16:35 45.48 n/a .000
00533> + 5.0 02:West_3 14.01 .085 1971.0810.17:20 38.68 n/a .000
00534> SSM= 5.0 01:West-Total 48.42 .425 1971.0810.16:35 41.82 n/a .000
00535> # Barhoven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00536> #####
00537> # Set infiltration to 0 (CN = 99.99) for water balance analysis
00538> #####
00539> R0703:C00008-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00540> CONTINUOUS NASRYD 5.0 01:West_1 14.27 .228 1973.0808.20:50 89.43 120 .000
00541> [CN= 12.0; B= 3.00; Tpe= 1.24]
00542> [IAREC= 6.00; EMIN= 39.75; SMAX=264.99; SK= .030]
00543> [InterventTime= 12.00]
00544> R0703:C00009-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00545> ADD HYD + 5.0 02:INW-West_1 14.27 .425 1973.0808.20:50 89.43 n/a .000
00546> + 5.0 02:INW-West_2 20.14 .563 1973.0808.20:55 89.43 n/a .000
00547> + 5.0 02:INW-West_3 14.01 .142 1973.0808.21:40 305.46 n/a .000
00548> SSM= 5.0 01:INW-West-Total 48.42 .129 1973.0808.21:45 305.45 n/a .000
00549> #####
00550> #####
00551> # CONTINUOUS RAINFALL DATA
00552> #####
00553> ** END OF RUN : 71
00554>
00555>
00556>
00557>
00558>
00559>
00560>
00561> RUN: [COMMAND]
00562> R0703:C00001
00563> START
00564> [ITER0 = .00 hrs on 19701010]
00565> [MET05 = 2 (Imperial, 2metric output)]
00566> [INST00M = 0]
00567> [NRUN = 2012]
00568> #####
00569> # SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00570> #####
00571> # Project Name: Barhoven Conservancy Development
00572> # Project Number: 1474
00573> # Date : 2021/Oct/18
00574> # Modeler : J.Burnett, P.Eng.
00575> # Updated : 2022/Dec/07 [JB]
00576> # Updated : 2022/Dec/13 [JP]
00577> # Updated : 2024/Mar/14 [JFS]
00578> # Company : J.F. Sabourin and Associates
00579> # License # : 2582634
00580> #####
00581> # Ottawa International Airport (1967 - 2003)
00582> R0703:C00002
00583> READ AES DATA
00584> [Filename = YOM_1967_2007_123 ]
00585> [Start_date = 1970.0101; End_date = 1972.1230]
00586> [DT= 60,min; Length= 8760,hrs; WetHrs= 489; DryHrs= 8271; PTOT= 784.30]
00587> Maxima average rainfall intensities over
00588> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00589> 37.30 19.15 12.97 6.15 4.50 2.53 2.00 1.71 1.17 mm/hr
00590> 37.30 38.30 38.90 48.90 54.00 60.70 72.10 82.20 84.20
00591> 19720712 19720712 19720712 19720712 19720712 19720712 19720712 19720712 19720712 date
00592> Number of rainfall events per following interevent time
00593> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00594> 169 133 122 86 76 60 45 41 31
00595> Number of events with at least the following durations
00596> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00597> 169 96 21 5 0 0 0
00598> R0703:C00003
00599> COMPUTE API
00600> [APIIn= 50.00; APIKey= 9000; APIkdc= 9956]
00601> [APIMax=108.88; APIAvg= 21.70; APImin= .01]
00602> #####
00603> # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00604> #####
00605> R0703:C00004-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00606> CONTINUOUS NASRYD 5.0 01:West_1 14.27 .278 1972.0807.23:45 121.97 156 .000
00607> [CN= 12.0; B= 3.00; Tpe= 1.24]
00608> [IAREC= 6.00; EMIN= 39.75; SMAX=264.99; SK= .030]
00609> [InterventTime= 12.00]
00610> R0703:C00005-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00611> CONTINUOUS NASRYD 5.0 01:West_2 20.14 .402 1972.0807.23:50 136.80 174 .000
00612> [CN= 12.0; B= 3.00; Tpe= 1.24]
00613> [IAREC= 6.00; EMIN= 32.46; SMAX=216.39; SK= .030]
00614> [InterventTime= 12.00]
00615> R0703:C00006-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00616> CONTINUOUS NASRYD 5.0 01:West_3 14.01 .164 1972.0808.0:55 119.16 152 .000
00617> [CN= 12.0; B= 3.00; Tpe= 1.24]
00618> [IAREC= 6.00; EMIN= 41.38; SMAX=275.84; SK= .030]
00619> [InterventTime= 12.00]
00620> R0703:C00007-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00621> ADD HYD + 5.0 02:West_1 14.27 .278 1972.0807.23:45 121.97 n/a .000
00622> + 5.0 02:West_2 20.14 .402 1972.0807.23:50 136.80 n/a .000
00623> + 5.0 02:West_3 14.01 .164 1972.0808.0:55 119.16 n/a .000
00624> SSM= 5.0 01:West-Total 48.42 .814 1972.0807.23:55 127.32 n/a .000
00625> # Barhoven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00626> #####
00627> # Set infiltration to 0 (CN = 99.99) for water balance analysis
00628> #####
00629> R0703:C00008-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00630> CONTINUOUS NASRYD 5.0 01:INW-West_1 14.27 .507 1972.0807.23:35 305.45 389 .000
00631> [CN= 12.0; B= 3.00; Tpe= 1.24]
00632> [IAREC= 6.00; EMIN= 1.39; SMAX= 9.24; SK= .000]
00633> [InterventTime= 12.00]
00634> R0703:C00009-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00635> CONTINUOUS NASRYD 5.0 01:INW-West_2 20.14 .663 1972.0807.23:40 305.45 389 .000
00636> [CN= 12.0; B= 3.00; Tpe= 1.24]
00637> [IAREC= 6.00; EMIN= 1.39; SMAX= 9.24; SK= .000]
00638> [InterventTime= 12.00]
00639> R0703:C00010-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00640> CONTINUOUS NASRYD 5.0 01:INW-West_3 14.01 .307 1972.0808.0:30 305.45 389 .000
00641> [CN= 12.0; B= 3.00; Tpe= 1.24]
00642> [IAREC= 6.00; EMIN= 1.39; SMAX= 9.24; SK= .000]
00643> [InterventTime= 12.00]
00644> R0703:C00011-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00645> ADD HYD + 5.0 02:INW-West_1 14.27 .507 1972.0807.23:35 305.45 n/a .000
00646> + 5.0 02:INW-West_2 20.14 .663 1972.0807.23:40 305.46 n/a .000
00647> + 5.0 02:INW-West_3 14.01 .307 1972.0808.0:30 305.45 n/a .000
00648> SSM= 5.0 01:INW-West-Total 48.42 1.479 1972.0807.23:45 305.45 n/a .000
00649> #####
00650> #####
00651> # CONTINUOUS RAINFALL DATA
00652> #####
00653> ** END OF RUN : 72
00654>
00655>
00656>
00657>
00658>
00659>
00660>
00661> RUN: [COMMAND]
00662> R0703:C00001
00663> START
00664> [ITER0 = .00 hrs on 19701010]
00665> [MET05 = 2 (Imperial, 2metric output)]
00666> [INST00M = 0]
00667> [NRUN = 2012]
00668> #####
00669> # SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00670> #####
00671> # Project Name: Barhoven Conservancy Development
00672> # Project Number: 1474
00673> # Date : 2021/Oct/18
00674> # Modeler : J.Burnett, P.Eng.
00675> # Updated : 2022/Dec/07 [JB]
00676> # Updated : 2022/Dec/13 [JP]
00677> # Updated : 2024/Mar/14 [JFS]
00678> # Company : J.F. Sabourin and Associates
00679> # License # : 2582634
00680> #####
00681> # Ottawa International Airport (1967 - 2003)
00682> R0703:C00002
00683> READ AES DATA
00684> [Filename = YOM_1967_2007_123 ]
00685> [Start_date = 1970.0101; End_date = 1973.1231]
00686> [DT= 60,min; Length= 8760,hrs; WetHrs= 549; DryHrs= 8211; PTOT= 744.90]
00687> Maxima average rainfall intensities over
00688> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00689> 30.00 17.25 12.33 10.10 3.63 1.89 1.28 .96 .96 mm/hr
00690> 30.00 34.50 37.00 42.60 43.60 45.00 46.00 46.00 69.20
00691> 19730616 19730616 19730616 19730616 19730616 19730616 19730616 19730616 19730616 date
00692> Number of rainfall events per following interevent time
00693> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00694> 200 164 141 108 79 61 54 43 37
00695> Number of events with at least the following durations
00696> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00697> 200 102 66 20 4 0 0 0
00698> R0703:C00003
00699> COMPUTE API
00700> [APIIn= 50.00; APIKey= 9000; APIkdc= 9956]
00701> [APIMax= 78.26; APIAvg= 20.56; APImin= .06]
00702> #####
00703> # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00704> #####
00705> R0703:C00004-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00706> CONTINUOUS NASRYD 5.0 01:West_1 14.27 .228 1973.0808.20:50 89.43 120 .000
00707> [CN= 12.0; B= 3.00; Tpe= 1.24]
00708> [IAREC= 6.00; EMIN= 39.75; SMAX=264.99; SK= .030]
00709> [InterventTime= 12.00]
00710> R0703:C00005-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00711> ADD HYD + 5.0 02:INW-West_1 14.27 .425 1973.0808.20:50 89.43 n/a .000
00712> + 5.0 02:INW-West_2 20.14 .563 1973.0808.20:55 89.43 n/a .000
00713> + 5.0 02:INW-West_3 14.01 .142 1973.0808.21:40 305.46 n/a .000
00714> SSM= 5.0 01:INW-West-Total 48.42 .129 1973.0808.21:45 305.45 n/a .000
00715> # Barhoven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00716> #####
00717> # Set infiltration to 0 (CN = 99.99) for water balance analysis
00718> #####
00719> R0703:C00008-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00720> CONTINUOUS NASRYD 5.0 01:West_1 14.27 .228 1973.0808.20:50 89.43 120 .000
00721> [CN= 12.0; B= 3.00; Tpe= 1.24]
00722> [IAREC= 6.00; EMIN= 39.75; SMAX=264.99; SK= .030]
00723> [InterventTime= 12.00]
00724> R0703:C00009-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----Rvm-R,C-----DWfms
00725> ADD HYD + 5.0 02:INW-West_1 14.27 .425 1973.0808.20:50 89.43 n/a .000
00726> + 5.0 02:INW-West_2 20.14 .563 1973.0808.20:55 89.43 n/a .000
00727> + 5.0 02:INW-West_3 14.01 .142 1973.0808.21:40 305.46 n/a .000
00728> SSM= 5.0 01:INW-West-Total 48.42 .129 1973.0808.21:45 305.45 n/a .000
00729> #####
00730> #####
00731> # CONTINUOUS RAINFALL DATA
00732> #####
00733> ** END OF RUN : 73
00734>
00735>
00736>
00737>
00738>
00739>
00740>
00741> RUN: [COMMAND]
00742> R0703:C00001
00743> START
00744> [ITER0 = .00 hrs on 19701010]
00745> [MET05 = 2 (Imperial, 2metric output)]
00746> [INST00M = 0]
00747> [NRUN = 2012]
00748> #####
00749> # SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00750> #####
00751> # Project Name: Barhoven Conservancy Development
00752> # Project Number: 1474
00753> # Date : 2021/Oct/18
00754> # Modeler : J.Burnett, P.Eng.
00755> # Updated : 2022/Dec/07 [JB]
00756> # Updated : 2022/Dec/13 [JP]
00757> # Updated : 2024/Mar/14 [JFS]
00758> # Company : J.F. Sabourin and Associates
00759> # License # : 2582634
00760> #####
00761> # Ottawa International Airport (1967 - 2003)
00762> R0703:C00002
00763> READ AES DATA
00764> [Filename = YOM_1967_2007_123 ]
00765> [Start_date = 1970.0101; End_date = 1974.1231]
00766> [DT= 60,min; Length= 8760,hrs; WetHrs= 609; DryHrs= 8151; PTOT= 704.90]
00767> Maxima
```

00721# CONTINUOUS NASHYD 5.0 01:West_2 20.14 .336 1973.0808.2100 101.49 .136 .000
00722# [CEN:16.0; W: 3.00; Tpe: 1.24]
00723# [IAREC: 6.00; SMIN: 32.46; SMAX:216.39; ESK: -030]
00724# [InterEventTime: 12.00]
00725# R0073:C00008 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00726# CONTINUOUS NASHYD 5.0 01:West_3 14.01 .132 1973.0808.2145 87.18 117 .000
00727# [CEN:16.0; W: 3.00; Tpe: 1.24]
00728# [IAREC: 6.00; SMIN: 41.38; SMAX:275.84; ESK: -030]
00729# [InterEventTime: 12.00]
00730# R0073:C00007 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00731# ADD HYD + 5.0 02:West_1 14.27 .228 1973.0808.2050 89.43 n/a .000
00732# + 5.0 02:West_2 20.14 .336 1973.0808.2100 101.49 n/a .000
00733# + 5.0 02:West_3 14.01 .132 1973.0808.2145 87.18 n/a .000
00734# SMM= 5.0 01:West-Total 48.42 .474 1973.0808.2100 93.79 n/a .000
00735# *****
00736# # Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00737# *****
00738# # Set infiltration to 0 (CN = 99.99) for water balance analysis
00739# *****
00740# R0073:C00008 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00741# CONTINUOUS NASHYD 5.0 01:INF-West_1 14.27 .497 1973.0808.2035 275.63 370 .000
00742# [CEN:100.0; W: 3.00; Tpe: 1.24]
00743# [IAREC: 6.00; SMIN: 1.39; SMAX: 9.24; ESK: -000]
00744# [InterEventTime: 12.00]
00745# R0073:C00009 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00746# CONTINUOUS NASHYD 5.0 01:INF-West_2 20.14 .650 1973.0808.2045 275.63 370 .000
00747# [CEN:100.0; W: 3.00; Tpe: 1.24]
00748# [IAREC: 6.00; SMIN: 1.39; SMAX: 9.24; ESK: -000]
00749# [InterEventTime: 12.00]
00750# R0073:C00010 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00751# CONTINUOUS NASHYD 5.0 01:INF-West_3 14.01 .300 1973.0808.2130 275.63 370 .000
00752# [CEN:100.0; W: 3.00; Tpe: 1.24]
00753# [IAREC: 6.00; SMIN: 1.39; SMAX: 9.24; ESK: -000]
00754# [InterEventTime: 12.00]
00755# R0073:C00011 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00756# ADD HYD + 5.0 02:INF-West_1 14.27 .497 1973.0808.2035 275.63 n/a .000
00757# + 5.0 02:INF-West_2 20.14 .650 1973.0808.2045 275.63 n/a .000
00758# + 5.0 02:INF-West_3 14.01 .300 1973.0808.2130 275.63 n/a .000
00759# SMM= 5.0 01:INF-West-7 48.42 .140 1973.0808.2045 275.63 n/a .000
00760# *****
00761# # CONTINUOUS RAINFALL DATA
00762# *****
00763# ** END OF RUN : 73
00764#
00765#
00766#
00767#
00768#
00769#
00770#
00771# RUN:COMMAND#
00772# R0073:C00001 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00773# START [ITER= .00 hrs on 19740101]
00774# [METOUT= 2 (Impigral, 2 metric output)]
00775# [INFORM= 0]
00776# [RUN= 0017]
00777# *****
00778# # SWMHYM Ver:5.02/Jan 2001 -GEMTA / INPUT DATA FILE
00779# *****
00780# # Project Name: Barhaven Conservancy Development
00781# # Project Number: 1474
00782# # Date : 2021/Oct/18
00783# # Modeler : J.Burnett, P.Eng.
00784# # Updated : 2022/Dec/07 [LB]
00785# # Updated : 2022/Dec/13 [LP]
00786# # Updated : 2024/Oct/18 [JFS]
00787# # Company : J.F. Sabourin and Associates
00788# # License # : 2382634
00789# #
00790# # Ontawa International Airport (1967 - 2003)
00791# *****
00792# R0074:C00002 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00793# READ AES DATA
00794# [FileName = YOM_1967_2007_123]
00795# [Start_date = 1974-01-01; End_date = 1974-12-31]
00796# [DT= 60_min; Length= 8760_hrs; WetHrs= 320; DryHrs= 8440; PTO= 386.20]
00797# Maximum average rainfall intensities over
00798# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00799# 20.60 18.40 10.37 5.18 2.98 1.63 1.08 .81 .54 mm/hr
00800# 20.60 30.80 31.10 35.70 39.00 39.00 39.00 39.00 mm
00801# 19740718 19740719 19740719 19740719 19740720 19740720 19740720 19740720 19740720 date
00802# Number of rainfall events per following interval time
00803# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00804# 129 105 93 77 63 60 38 33 23
00805# Number of events with least the following durations
00806# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00807# 228 66 32 10 3 0 0 0
00808# R0074:C00003 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00809# COMPUTE API
00810# [APIIn: 50.00; APIkdy: 9000; APIkdc: 9956]
00811# [APIMax: 52.93; APIFlow: 11.36; APITime: .00]
00812# *****
00813# # Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00814# *****
00815# R0074:C00004 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00816# CONTINUOUS NASHYD 5.0 01:West_1 14.27 .085 1974.0719. 1140 24.04 062 .000
00817# [CEN:16.0; W: 3.00; Tpe: 1.24]
00818# [IAREC: 6.00; SMIN: 39.75; SMAX:264.99; ESK: -030]
00819# [InterEventTime: 12.00]
00820# R0074:C00005 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00821# CONTINUOUS NASHYD 5.0 01:West_2 20.14 .130 1974.0719. 1145 27.61 072 .000
00822# [CEN:16.0; W: 3.00; Tpe: 1.24]
00823# [IAREC: 6.00; SMIN: 32.46; SMAX:216.39; ESK: -030]
00824# [InterEventTime: 12.00]
00825# R0074:C00006 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00826# CONTINUOUS NASHYD 5.0 01:West_3 14.01 .050 1974.0719. 2130 23.38 061 .000
00827# [CEN:16.0; W: 3.00; Tpe: 1.24]
00828# [IAREC: 6.00; SMIN: 41.38; SMAX:275.84; ESK: -030]
00829# [InterEventTime: 12.00]
00830# R0074:C00007 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00831# ADD HYD + 5.0 02:West_1 14.27 .085 1974.0719. 1140 24.04 n/a .000
00832# + 5.0 02:West_2 20.14 .130 1974.0719. 1145 27.61 n/a .000
00833# + 5.0 02:West_3 14.01 .050 1974.0719. 2130 23.38 n/a .000
00834# SMM= 5.0 01:West-Total 48.42 .257 1974.0719. 1145 25.33 n/a .000
00835# *****
00836# # Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00837# *****
00838# # Set infiltration to 0 (CN = 99.99) for water balance analysis
00839# *****
00840# R0074:C00008 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00841# CONTINUOUS NASHYD 5.0 01:INF-West_1 14.27 .310 1974.0719. 1120 95.45 247 .000
00842# [CEN:100.0; W: 3.00; Tpe: 1.24]
00843# [IAREC: 6.00; SMIN: 1.39; SMAX: 9.24; ESK: -000]
00844# [InterEventTime: 12.00]
00845# R0074:C00009 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00846# CONTINUOUS NASHYD 5.0 01:INF-West_2 20.14 .408 1974.0719. 1130 95.45 247 .000
00847# [CEN:100.0; W: 3.00; Tpe: 1.24]
00848# [IAREC: 6.00; SMIN: 1.39; SMAX: 9.24; ESK: -000]
00849# [InterEventTime: 12.00]
00850# R0074:C00010 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00851# CONTINUOUS NASHYD 5.0 01:INF-West_3 14.01 .189 1974.0719. 2110 95.45 247 .000
00852# [CEN:100.0; W: 3.00; Tpe: 1.24]
00853# [IAREC: 6.00; SMIN: 1.39; SMAX: 9.24; ESK: -000]
00854# [InterEventTime: 12.00]
00855# R0074:C00011 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00856# ADD HYD + 5.0 02:INF-West_1 14.27 .310 1974.0719. 1120 95.45 n/a .000
00857# + 5.0 02:INF-West_2 20.14 .408 1974.0719. 1130 95.45 n/a .000
00858# + 5.0 02:INF-West_3 14.01 .189 1974.0719. 2110 95.45 n/a .000
00859# SMM= 5.0 01:INF-West-7 48.42 .880 1974.0719. 1130 95.45 n/a .000
00860# *****
00861# # CONTINUOUS RAINFALL DATA
00862# *****
00863# ** END OF RUN : 74
00864#
00865#
00866#
00867#
00868#
00869#
00870#
00871# RUN:COMMAND#
00872# R0073:C00001 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00873# START [ITER= .00 hrs on 19750101]
00874# [METOUT= 2 (Impigral, 2 metric output)]
00875# [INFORM= 0]
00876# [RUN= 0017]
00877# *****
00878# # SWMHYM Ver:5.02/Jan 2001 -GEMTA / INPUT DATA FILE
00879# *****
00880# # Project Name: Barhaven Conservancy Development
00881# # Project Number: 1474
00882# # Date : 2021/Oct/18
00883# # Modeler : J.Burnett, P.Eng.
00884# # Updated : 2022/Dec/07 [LB]
00885# # Updated : 2022/Dec/13 [LP]
00886# # Updated : 2024/Oct/18 [JFS]
00887# # Company : J.F. Sabourin and Associates
00888# # License # : 2382634
00889# #
00890# # Ontawa International Airport (1967 - 2003)
00891# *****
00892# R0075:C00002 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00893# READ AES DATA
00894# [FileName = YOM_1967_2007_123]
00895# [Start_date = 1975-01-01; End_date = 1975-12-31]
00896# [DT= 60_min; Length= 8760_hrs; WetHrs= 390; DryHrs= 7674; PTO= 493.20]
00897# Maximum average rainfall intensities over
00898# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00899# 14.00 8.90 4.43 4.65 2.35 1.39 .97 .99 .80 mm/hr
00900# 14.00 17.80 19.30 27.90 28.20 30.30 35.10 47.60 57.50 mm
00901# 19760228 19760228 19760228 19760228 19760228 19760228 19760228 19760228 19760228 date
00902# Number of rainfall events per following interval time
00903# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00904# 144 133 117 89 72 62 46 40 28
00905# Number of events with least the following durations
00906# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00907# 143 80 47 15 2 0 0 0
00908# R0075:C00003 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00909# COMPUTE API
00910# [APIIn: 50.00; APIkdy: 9000; APIkdc: 9956]
00911# [APIMax: 59.66; APIFlow: 15.35; APITime: .00]
00912# *****
00913# # Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00914# *****
00915# R0075:C00004 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00916# CONTINUOUS NASHYD 5.0 01:West_1 14.27 .065 1976.0518.2320 36.78 075 .000
00917# [CEN:16.0; W: 3.00; Tpe: 1.24]
00918# [IAREC: 6.00; SMIN: 39.75; SMAX:264.99; ESK: -030]
00919# [InterEventTime: 12.00]
00920# R0075:C00005 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00921# CONTINUOUS NASHYD 5.0 01:West_2 20.14 .101 1976.0518.2320 42.34 086 .000
00922# [CEN:16.0; W: 3.00; Tpe: 1.24]
00923# [IAREC: 6.00; SMIN: 32.46; SMAX:216.39; ESK: -030]
00924# [InterEventTime: 12.00]
00925# R0075:C00006 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00926# CONTINUOUS NASHYD 5.0 01:West_3 14.01 .051 1976.0520. 0100 35.75 072 .000
00927# [CEN:16.0; W: 3.00; Tpe: 1.24]
00928# [IAREC: 6.00; SMIN: 41.38; SMAX:275.84; ESK: -030]
00929# [InterEventTime: 12.00]
00930# R0075:C00007 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00931# ADD HYD + 5.0 02:West_1 14.27 .065 1976.0518.2320 36.78 n/a .000
00932# + 5.0 02:West_2 20.14 .101 1976.0518.2320 42.34 n/a .000
00933# + 5.0 02:West_3 14.01 .051 1976.0520. 0100 35.75 n/a .000
00934# SMM= 5.0 01:West-Total 48.42 .215 1976.0518.2320 38.79 n/a .000
00935# *****
00936# # Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00937# *****
00938# # Set infiltration to 0 (CN = 99.99) for water balance analysis
00939# *****
00940# R0075:C00008 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00941# CONTINUOUS NASHYD 5.0 01:INF-West_1 14.27 .132 1976.0828.2020 137.15 278 .000
00942# [CEN:100.0; W: 3.00; Tpe: 1.24]
00943# [IAREC: 6.00; SMIN: 1.39; SMAX: 9.24; ESK: -000]
00944# [InterEventTime: 12.00]
00945# R0075:C00009 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00946# CONTINUOUS NASHYD 5.0 01:INF-West_2 20.14 .182 1976.0828.2020 137.15 278 .000
00947# [CEN:100.0; W: 3.00; Tpe: 1.24]
00948# [IAREC: 6.00; SMIN: 1.39; SMAX: 9.24; ESK: -000]
00949# [InterEventTime: 12.00]
00950# R0075:C00010 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00951# CONTINUOUS NASHYD 5.0 01:INF-West_3 14.01 .113 1976.0828.2020 137.15 278 .000
00952# [CEN:100.0; W: 3.00; Tpe: 1.24]
00953# [IAREC: 6.00; SMIN: 1.39; SMAX: 9.24; ESK: -000]
00954# [InterEventTime: 12.00]
00955# R0075:C00011 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00956# ADD HYD + 5.0 02:INF-West_1 14.27 .132 1976.0828.2020 137.15 n/a .000
00957# + 5.0 02:INF-West_2 20.14 .182 1976.0828.2020 137.15 n/a .000
00958# + 5.0 02:INF-West_3 14.01 .113 1976.0828.2020 137.15 n/a .000
00959# SMM= 5.0 01:INF-West-7 48.42 .423 1976.0828.2020 137.15 n/a .000
00960# *****
00961# # CONTINUOUS RAINFALL DATA
00962# *****
00963# ** END OF RUN : 76
00964#
00965#
00966#
00967#
00968#
00969#
00970#
00971# RUN:COMMAND#
00972# R0073:C00001 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00973# START [ITER= .00 hrs on 19770101]
00974# [METOUT= 2 (Impigral, 2 metric output)]
00975# [INFORM= 0]
00976# [RUN= 0017]
00977# *****
00978# # SWMHYM Ver:5.02/Jan 2001 -GEMTA / INPUT DATA FILE
00979# *****
00980# # Project Name: Barhaven Conservancy Development
00981# # Project Number: 1474
00982# # Date : 2021/Oct/18
00983# # Modeler : J.Burnett, P.Eng.
00984# # Updated : 2022/Dec/07 [LB]
00985# # Updated : 2022/Dec/13 [LP]
00986# # Updated : 2024/Oct/18 [JFS]
00987# # Company : J.F. Sabourin and Associates
00988# # License # : 2382634
00989# #
00990# # Ontawa International Airport (1967 - 2003)
00991# *****
00992# R0073:C00002 *****DBin-ID:INHYD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R_C-----DWFCMS
00993# READ AES DATA
00994# [FileName = YOM_1967_2007_123]
00995# [Start_date = 1977-01-01; End_date = 1977-12-31]
00996# [DT= 60_min; Length= 8760_hrs; WetHrs= 384; DryHrs= 8416; PTO= 535.50]
00997# Maximum average rainfall intensities over
00998# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00999# 34.80 18.40 12.53 6.32 3.33 1.73 1.15 .87 .62 mm/hr
01000# 34.80 36.80 37.60 37.90 40.00 41.40 41.50 41.80 44.60 mm

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01081 # Project Name: Barhavan Conservancy Development
01082 # Project Number: 1474
01083 # Date : 2021/Oct/18
01084 # Modeler : J.Burnett, P.Eng.
01085 # Updated : 2022/Dec/07 [LB]
01086 # Updated : 2022/Dec/13 [LP]
01087 # Updated : 2024/Mar/14 [SB]
01088 # Company : J.F. Sabourin and Associates
01089 # License # : 2262634
01090 #####
01091 # Ottawa International Airport (1967 - 2003)
01092 R0077C0002#####
01093 # READ AES DATA
01094 [Filename = YOM_1967_2007_123 ]
01095 [Start_date = 1979.0101; End_date = 1977.1231]
01096 [DT= 60;min; Length= 8014;hrs; WetRes= 512; DryRes= 7504; PTO= 677.80]
01097 Maximum average rainfall intensities over
01098 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01099 21.30 15.20 10.40 6.53 3.30 1.66 1.40 1.06 .73
01100 21.30 15.20 10.40 6.53 3.30 1.66 1.40 1.06 .73 mm/hr
01101 1970717 1970717 1970717 1970717 1970717 1970717 1970717 1970717 1970717 date
01102 Number of rainfall events per following increment time
01103 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01104 172 142 126 99 78 63 53 42 30
01105 Number of events with at least the following durations
01106 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01107 171 141 125 98 77 62 52 41 30
01108 R0077C0003#####
01109 COMPUTE API
01110 [APItime = 50.00; APIkdy = 9000; APIkde = 9956]
01111 [APImax = 74.80; APIavg = 20.42; APImin = 1.63]
01112 #####
01113 # Barhavan Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01114 # *****
01115 R0078C0004-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01116 CONTINUOUS NASHVD 5.0 01:West_1 14.27 .145 1977.0901.23150 70.59 104 .000
01117 [CN= 12.0; H= 3.00; T= 1.24]
01118 [IAREC = 6.00; SMIN= 39.75; SMAX=264.99; SK= .030]
01119 [InterEventTime = 12.00]
01120 R0078C0005-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01121 CONTINUOUS NASHVD 5.0 01:West_2 20.14 .217 1977.0901.23155 80.37 119 .000
01122 [CN= 16.0; H= 3.00; T= 1.28]
01123 [IAREC = 6.00; SMIN= 32.46; SMAX=216.39; SK= .030]
01124 [InterEventTime = 12.00]
01125 R0078C0006-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01126 CONTINUOUS NASHVD 5.0 01:West_3 14.01 .085 1977.0902.0140 68.77 101 .000
01127 [CN= 12.0; H= 3.00; T= 1.24]
01128 [IAREC = 6.00; SMIN= 41.38; SMAX=275.84; SK= .030]
01129 [InterEventTime = 12.00]
01130 R0078C0007-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01131 ADD HYD + 5.0 02:West_1 14.27 .145 1977.0901.23150 70.59 n/a .000
01132 + 5.0 02:West_2 20.14 .217 1977.0901.23155 80.37 n/a .000
01133 + 5.0 02:West_3 14.01 .085 1977.0902.0140 68.77 n/a .000
01134 SSM= 5.0 01:West-Total 48.42 .436 1977.0901.23155 74.13 n/a .000
01135 # *****
01136 # Barhavan Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01137 # *****
01138 # Set infiltration to 0 (CN = 99.99) for water balance analysis
01139 # *****
01140 R0078C0008-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01141 CONTINUOUS NASHVD 5.0 01:INF-West_1 14.27 .364 1977.0901.23135 229.46 339 .000
01142 [CN= 10.0; H= 3.00; T= 1.07]
01143 [IAREC = 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01144 [InterEventTime = 12.00]
01145 R0078C0009-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01146 CONTINUOUS NASHVD 5.0 01:INF-West_2 20.14 .481 1977.0901.23140 229.47 339 .000
01147 [CN= 10.0; H= 3.00; T= 1.07]
01148 [IAREC = 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01149 [InterEventTime = 12.00]
01150 R0078C0010-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01151 CONTINUOUS NASHVD 5.0 01:INF-West_3 14.01 .234 1977.0902.0120 229.46 339 .000
01152 [CN= 10.0; H= 3.00; T= 1.07]
01153 [IAREC = 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01154 [InterEventTime = 12.00]
01155 R0078C0011-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01156 ADD HYD + 5.0 02:INF-West_1 14.27 .364 1977.0901.23135 229.46 n/a .000
01157 + 5.0 02:INF-West_2 20.14 .481 1977.0901.23140 229.46 n/a .000
01158 + 5.0 02:INF-West_3 14.01 .234 1977.0902.0120 229.46 n/a .000
01159 SSM= 5.0 01:INF-West-7 48.42 1.054 1977.0901.23140 229.46 n/a .000
01160 #####
01161 # CONTINUOUS RAINFALL DATA
01162 #####
01163 ** END OF RUN : 77
01164 #####
01165 #####
01166 #####
01167 #####
01168 #####
01169 #####
01170 #####
01171 RUN:COMMAND#
01172 R0078C0001#####
01173 START
01174 [ITER= .00 hrs on 19780101]
01175 [NETOT= 2 (Unipolar, 2 metric output)]
01176 [INSTORM= 0]
01177 [NRUN = 2019]
01178 # *****
01179 # SWMHYM Ver:5.02/Jan 2001 -GEMTA / INPUT DATA FILE
01180 # *****
01181 # Project Name: Barhavan Conservancy Development
01182 # Project Number: 1474
01183 # Date : 2021/Oct/18
01184 # Modeler : J.Burnett, P.Eng.
01185 # Updated : 2022/Dec/07 [LB]
01186 # Updated : 2022/Dec/13 [LP]
01187 # Updated : 2024/Mar/14 [SB]
01188 # Company : J.F. Sabourin and Associates
01189 # License # : 2262634
01190 #####
01191 # Ottawa International Airport (1967 - 2003)
01192 R0078C0002#####
01193 # READ AES DATA
01194 [Filename = YOM_1967_2007_123 ]
01195 [Start_date = 1979.0101; End_date = 1978.1231]
01196 [DT= 60;min; Length= 8040;hrs; WetRes= 409; DryRes= 7631; PTO= 641.40]
01197 Maximum average rainfall intensities over
01198 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01199 36.00 18.15 12.10 6.05 3.04 1.44 1.13 .87 .58 mm/hr
01200 36.00 18.15 12.10 6.05 3.04 1.44 1.13 .87 .58 mm
01201 1970618 1970618 1970618 1970618 1970618 1970618 1970618 1970618 1970618 date
01202 Number of rainfall events per following increment time
01203 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01204 154 128 118 97 79 62 49 44 33
01205 Number of events with at least the following durations
01206 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01207 154 127 117 96 78 61 48 41 30
01208 R0078C0003#####
01209 COMPUTE API
01210 [APItime = 50.00; APIkdy = 9000; APIkde = 9956]
01211 [APImax = 65.36; APIavg = 19.25; APImin = .25]
01212 #####
01213 # Barhavan Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01214 # *****
01215 R0078C0004-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01216 CONTINUOUS NASHVD 5.0 01:West_1 14.27 .180 1978.0618.17155 53.70 084 .000
01217 [CN= 12.0; H= 3.00; T= 1.24]
01218 [IAREC = 6.00; SMIN= 39.75; SMAX=264.99; SK= .030]
01219 [InterEventTime = 12.00]
01220 R0078C0005-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01221 CONTINUOUS NASHVD 5.0 01:West_2 20.14 .264 1978.0618.1805 61.75 096 .000
01222 [CN= 16.0; H= 3.00; T= 1.28]
01223 [IAREC = 6.00; SMIN= 32.46; SMAX=216.39; SK= .030]
01224 [InterEventTime = 12.00]
01225 R0078C0006-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01226 CONTINUOUS NASHVD 5.0 01:West_3 14.01 .098 1978.0618.18150 52.22 081 .000
01227 [CN= 12.0; H= 3.00; T= 1.24]
01228 [IAREC = 6.00; SMIN= 41.38; SMAX=275.84; SK= .030]
01229 [InterEventTime = 12.00]
01230 R0078C0007-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01231 ADD HYD + 5.0 02:West_1 14.27 .180 1978.0618.17155 53.70 n/a .000
01232 + 5.0 02:West_2 20.14 .264 1978.0618.1805 61.75 n/a .000
01233 + 5.0 02:West_3 14.01 .098 1978.0618.18150 52.22 n/a .000
01234 SSM= 5.0 01:West-Total 48.42 .523 1978.0618.1805 56.62 n/a .000
01235 # *****
01236 # Barhavan Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01237 # *****
01238 # Set infiltration to 0 (CN = 99.99) for water balance analysis
01239 # *****
01240 R0078C0008-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01241 CONTINUOUS NASHVD 5.0 01:INF-West_1 14.27 .441 1978.0618.17145 214.53 334 .000
01242 [CN= 10.0; H= 3.00; T= 1.07]
01243 [IAREC = 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01244 [InterEventTime = 12.00]
01245 R0078C0009-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01246 CONTINUOUS NASHVD 5.0 01:INF-West_2 20.14 .568 1978.0618.17155 214.53 334 .000
01247 [CN= 10.0; H= 3.00; T= 1.07]
01248 [IAREC = 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01249 [InterEventTime = 12.00]
01250 R0078C0010-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01251 CONTINUOUS NASHVD 5.0 01:INF-West_3 14.01 .247 1978.0618.18140 214.53 334 .000
01252 [CN= 10.0; H= 3.00; T= 1.07]
01253 [IAREC = 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01254 [InterEventTime = 12.00]
01255 R0078C0011-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01256 ADD HYD + 5.0 02:INF-West_1 14.27 .441 1978.0618.17145 214.53 n/a .000
01257 + 5.0 02:INF-West_2 20.14 .568 1978.0618.17155 214.53 n/a .000
01258 + 5.0 02:INF-West_3 14.01 .247 1978.0618.18140 214.53 n/a .000
01259 SSM= 5.0 01:INF-West-7 48.42 1.209 1978.0618.17155 214.53 n/a .000
01260 #####
01261 # CONTINUOUS RAINFALL DATA
01262 #####
01263 ** END OF RUN : 78
01264 #####
01265 #####
01266 #####
01267 #####
01268 #####
01269 #####
01270 #####
01271 RUN:COMMAND#
01272 R0079C0001#####
01273 START
01274 [ITER= .00 hrs on 19790101]
01275 [NETOT= 2 (Unipolar, 2 metric output)]
01276 [INSTORM= 0]
01277 [NRUN = 2019]
01278 # *****
01279 # SWMHYM Ver:5.02/Jan 2001 -GEMTA / INPUT DATA FILE
01280 # *****
01281 # Project Name: Barhavan Conservancy Development
01282 # Project Number: 1474
01283 # Date : 2021/Oct/18
01284 # Modeler : J.Burnett, P.Eng.
01285 # Updated : 2022/Dec/07 [LB]
01286 # Updated : 2022/Dec/13 [LP]
01287 # Updated : 2024/Mar/14 [SB]
01288 # Company : J.F. Sabourin and Associates
01289 # License # : 2262634
01290 #####
01291 # Ottawa International Airport (1967 - 2003)
01292 R0079C0002#####
01293 # READ AES DATA
01294 [Filename = YOM_1967_2007_123 ]
01295 [Start_date = 1979.0101; End_date = 1979.1231]
01296 [DT= 60;min; Length= 8760;hrs; WetRes= 546; DryRes= 8214; PTO= 866.50]
01297 Maximum average rainfall intensities over
01298 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01299 34.90 22.00 14.67 4.33 5.14 2.63 1.75 1.31 .88 mm/hr
01300 34.90 22.00 14.67 4.33 5.14 2.63 1.75 1.31 .88 mm
01301 19790616 19790616 19790616 19790616 19790616 19790616 19790616 19790616 19790616 date
01302 Number of rainfall events per following increment time
01303 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01304 188 147 129 103 86 60 53 43 36
01305 Number of events with at least the following durations
01306 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01307 187 147 129 103 86 60 53 43 36
01308 R0079C0003#####
01309 COMPUTE API
01310 [APItime = 50.00; APIkdy = 9000; APIkde = 9956]
01311 [APImax = 78.42; APIavg = 23.13; APImin = .13]
01312 #####
01313 # Barhavan Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01314 # *****
01315 R0079C0004-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01316 CONTINUOUS NASHVD 5.0 01:West_1 14.27 .252 1979.0616.1455 141.56 163 .000
01317 [CN= 12.0; H= 3.00; T= 1.24]
01318 [IAREC = 6.00; SMIN= 39.75; SMAX=264.99; SK= .030]
01319 [InterEventTime = 12.00]
01320 R0079C0005-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01321 CONTINUOUS NASHVD 5.0 01:West_2 20.14 .367 1979.0616.1500 159.06 184 .000
01322 [CN= 16.0; H= 3.00; T= 1.28]
01323 [IAREC = 6.00; SMIN= 32.46; SMAX=216.39; SK= .030]
01324 [InterEventTime = 12.00]
01325 R0079C0006-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01326 CONTINUOUS NASHVD 5.0 01:West_3 14.01 .139 1979.0616.1545 138.25 160 .000
01327 [CN= 12.0; H= 3.00; T= 1.24]
01328 [IAREC = 6.00; SMIN= 41.38; SMAX=275.84; SK= .030]
01329 [InterEventTime = 12.00]
01330 R0079C0007-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01331 ADD HYD + 5.0 02:West_1 14.27 .252 1979.0616.1455 141.56 n/a .000
01332 + 5.0 02:West_2 20.14 .367 1979.0616.1500 159.06 n/a .000
01333 + 5.0 02:West_3 14.01 .139 1979.0616.1545 138.25 n/a .000
01334 SSM= 5.0 01:West-Total 48.42 731 1979.0616.1500 147.88 n/a .000
01335 # *****
01336 # Barhavan Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01337 # *****
01338 # Set infiltration to 0 (CN = 99.99) for water balance analysis
01339 # *****
01340 R0079C0008-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01341 CONTINUOUS NASHVD 5.0 01:INF-West_1 14.27 .561 1979.0616.1440 372.09 429 .000
01342 [CN= 10.0; H= 3.00; T= 1.07]
01343 [IAREC = 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01344 [InterEventTime = 12.00]
01345 R0079C0009-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01346 CONTINUOUS NASHVD 5.0 01:INF-West_2 20.14 .725 1979.0616.1445 372.09 429 .000
01347 [CN= 10.0; H= 3.00; T= 1.07]
01348 [IAREC = 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01349 [InterEventTime = 12.00]
01350 R0079C0010-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01351 CONTINUOUS NASHVD 5.0 01:INF-West_3 14.01 .318 1979.0616.1535 372.09 429 .000
01352 [CN= 10.0; H= 3.00; T= 1.07]
01353 [IAREC = 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01354 [InterEventTime = 12.00]
01355 R0079C0011-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01356 ADD HYD + 5.0 02:INF-West_1 14.27 .561 1979.0616.1440 372.09 n/a .000
01357 + 5.0 02:INF-West_2 20.14 .725 1979.0616.1445 372.09 n/a .000
01358 + 5.0 02:INF-West_3 14.01 .318 1979.0616.1535 372.09 n/a .000
01359 SSM= 5.0 01:INF-West-4 48.42 1.548 1979.0616.1450 372.09 n/a .000
01360 #####
01361 # CONTINUOUS RAINFALL DATA
01362 #####
01363 ** END OF RUN : 79
01364 #####
01365 #####
01366 #####
01367 #####
01368 #####
01369 #####
01370 #####
01371 RUN:COMMAND#
01372 R0080C0001#####
01373 START
01374 [ITER= .00 hrs on 19800101]
01375 [NETOT= 2 (Unipolar, 2 metric output)]
01376 [INSTORM= 0]
01377 [NRUN = 2020]
01378 # *****
01379 # SWMHYM Ver:5.02/Jan 2001 -GEMTA / INPUT DATA FILE
01380 # *****
01381 # Project Name: Barhavan Conservancy Development
01382 # Project Number: 1474
01383 # Date : 2021/Oct/18
01384 # Modeler : J.Burnett, P.Eng.
01385 # Updated : 2022/Dec/07 [LB]
01386 # Updated : 2022/Dec/13 [LP]
01387 # Updated : 2024/Mar/14 [SB]
01388 # Company : J.F. Sabourin and Associates
01389 # License # : 2262634
01390 #####
01391 # Ottawa International Airport (1967 - 2003)
01392 R0080C0002#####
01393 # READ AES DATA
01394 [Filename = YOM_1967_2007_123 ]
01395 [Start_date = 1980.0101; End_date = 1980.1230]
01396 [DT= 60;min; Length= 8760;hrs; WetRes= 427; DryRes= 8333; PTO= 622.00]
01397 Maximum average rainfall intensities over
01398 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01399 15.00 9.20 4.50 4.72 3.57 1.97 1.35 1.01 .86 mm/hr
01400 15.00 9.20 4.50 4.72 3.57 1.97 1.35 1.01 .86 mm
01401 1980030 1980030 19801025 19801025 19801026 19801026 19801027 1980092 1980092 date
01402 Number of rainfall events per following increment time
01403 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01404 151 125 112 93 79 62 49 44 28
01405 Number of events with at least the following durations
01406 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01407 150 85 54 16 4 0 0 0 0
01408 R0080C0003#####
01409 COMPUTE API
01410 [APItime = 50.00; APIkdy = 9000; APIkde = 9956]
01411 [APImax = 68.72; APIavg = 17.50; APImin = .06]
01412 #####
01413 # Barhavan Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01414 # *****
01415 R0080C0004-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01416 CONTINUOUS NASHVD 5.0 01:West_1 14.27 .080 1980.1026.0130 58.50 094 .000
01417 [CN= 12.0; H= 3.00; T= 1.24]
01418 [IAREC = 6.00; SMIN= 39.75; SMAX=264.99; SK= .030]
01419 [InterEventTime = 12.00]
01420 R0080C0005-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01421 CONTINUOUS NASHVD 5.0 01:West_2 20.14 .122 1980.1026.0135 66.79 107 .000
01422 [CN= 16.0; H= 3.00; T= 1.28]
01423 [IAREC = 6.00; SMIN= 32.46; SMAX=216.39; SK= .030]
01424 [InterEventTime = 12.00]
01425 R0080C0006-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01426 CONTINUOUS NASHVD 5.0 01:West_3 14.01 .061 1980.1026.1110 56.97 092 .000
01427 [CN= 12.0; H= 3.00; T= 1.24]
01428 [IAREC = 6.00; SMIN= 41.38; SMAX=275.84; SK= .030]
01429 [InterEventTime = 12.00]
01430 R0080C0007-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
01431 ADD HYD + 5.0 02:West_1 14.27 .080 1980.1026.0130 58.50 n/a .000
01432 + 5.0 02:West_2 20.14 .122 1980.1026.0135 66.79 n/a .000
01433 + 5.0 02:West_3 14.01 .061 1980.1026.1110 56.97 n/a .000
01434 SSM= 5.0 01:West-Total 48.42 260 1980.1026.0130 61.50 n/a .000
01435 # *****
01436 # Barhavan Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01437 # *****
01438 # Set infiltration to 0 (CN = 99.99) for water balance analysis
01439 # *****
01440 R0080C0008-----Otsin-ID:INHYD-----AREHA-QFEARms-TpeakDate_hh:mm-----Rvm-R-C-----DWfms

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02161# CONTINUOUS RAINFALL DATA
02162# *****
02163# ** END OF RUN : 87
02164#
02165#
02166#
02167#
02168#
02169#
02170#
02171# RUN:COMMAND#
02172# RO989C0000#
02173# START
02174# [ZERO = .00 hrs on 19890101]
02175# [METOD= 2 (Empirical, 2-metric output)]
02176# [INSTORM= 0]
02177# [NRUN = 000]
02178# *****
02179# # SWMHYM Ver:02/Jan 2001 <BETA> / INPUT DATA FILE
02180# # *****
02181# # Project Name: Barhavan Conservancy Development
02182# # Project Number: 1474
02183# # Date : 2021/Oct/18
02184# # Modeler : J.Burnett, P.Eng.
02185# # Updated : 2022/Dec/07 [JB]
02186# # Updated : 2022/Dec/13 [JP]
02187# # Updated : 2024/Mar/14 [JFS]
02188# # Company : J.F. Sabourin and Associates
02189# # License # : 2582634
02190# # *****
02191# # Ottawa International Airport (1967 - 2003)
02192# RO989C0002#
02193# READ AES DATA
02194# [Filename = YOM_1967_2007_123 ]
02195# [Start_date = 1989-01-01; End_date = 1989-12-31]
02196# [DT= 60,min; Length= 8760,hrs; WetHrs= 487; DryHrs= 8273; PTO= 643.80]
02197# Maximum average rainfall intensities over
02198# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02199# 25.50 18.20 12.77 7.37 3.78 1.91 1.27 .95 .84 mm/hr
02200# 25.50 36.40 38.30 44.20 45.40 45.80 45.80 67.40 mm
02201# 1989017 19890726 19890625 19890625 19890625 19890625 19890625 19890625
02202# Number of rainfall events per following interevent time
02203# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02204# 165 130 109 80 66 46 49 42 26
02205# Number of events with at least the following durations
02206# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02207# 164 102 71 20 5 0 0 0
02208# RO989C0003#
02209# COMPUTE API
02210# [APIIn= 50.00; APIQty= 9000; APIK= 9956]
02211# [APIMax= 66.04; APIAvg= 18.06; APImin= .03]
02212# *****
02213# # Barhavan Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02214# *****
02215# RO989C0004#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02216# CONTINUOUS NASBYD 5.0 01:West_1 14.27 .228 1989.0625_13:40 66.49 103 .000
02217# [CN= 12.0; B= 3.00; T= 1.24]
02218# [IAREC= 6.00; EMIN= 39.75; SMAX=24.9; SK= .030]
02219# [InterventTime= 12.00]
02220# RO989C0005#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02221# CONTINUOUS NASBYD 5.0 01:West_2 20.14 .337 1989.0625_13:45 75.66 118 .000
02222# [CN= 12.0; B= 3.00; T= 1.24]
02223# [IAREC= 6.00; EMIN= 32.46; SMAX=216.39; SK= .030]
02224# [InterventTime= 12.00]
02225# RO989C0006#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02226# CONTINUOUS NASBYD 5.0 01:West_3 14.01 .135 1989.0625_14:30 64.79 101 .000
02227# [CN= 12.0; B= 3.00; T= 1.24]
02228# [IAREC= 6.00; EMIN= 41.38; SMAX=275.84; SK= .030]
02229# [InterventTime= 12.00]
02230# RO989C0007#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02231# ADD HYD + 5.0 02:West_1 14.27 .228 1989.0625_13:40 66.49 n/a .000
02232# + 5.0 02:West_2 20.14 .337 1989.0625_13:45 75.66 n/a .000
02233# + 5.0 02:West_3 14.01 .135 1989.0625_14:30 64.79 n/a .000
02234# SBM= 5.0 01:West-Total 48.42 .681 1989.0625_13:50 69.81 n/a .000
02235# *****
02236# # Barhavan Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02237# *****
02238# # Set infiltration to 0 (CN = 99.99) for water balance analysis
02239# *****
02240# RO989C0008#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02241# CONTINUOUS NASBYD 5.0 01:INWest_1 14.27 .467 1989.0625_13:25 208.89 324 .000
02242# [CN= 10.0; B= 3.00; T= 1.24]
02243# [IAREC= 6.00; EMIN= 1.39; SMAX= 9.24; SK= .000]
02244# [InterventTime= 12.00]
02245# RO989C0009#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02246# CONTINUOUS NASBYD 5.0 01:INWest_2 20.14 .619 1989.0625_13:30 208.89 324 .000
02247# [CN= 10.0; B= 3.00; T= 1.24]
02248# [IAREC= 6.00; EMIN= 1.39; SMAX= 9.24; SK= .000]
02249# [InterventTime= 12.00]
02250# RO989C0010#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02251# CONTINUOUS NASBYD 5.0 01:INWest_3 14.01 .297 1989.0625_14:15 208.89 324 .000
02252# [CN= 10.0; B= 3.00; T= 1.24]
02253# [IAREC= 6.00; EMIN= 1.39; SMAX= 9.24; SK= .000]
02254# [InterventTime= 12.00]
02255# RO989C0011#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02256# ADD HYD + 5.0 02:INWest_1 14.27 .467 1989.0625_13:25 208.89 n/a .000
02257# + 5.0 02:INWest_2 20.14 .619 1989.0625_13:30 208.89 n/a .000
02258# + 5.0 02:INWest_3 14.01 .297 1989.0625_14:15 208.89 n/a .000
02259# SBM= 5.0 01:INWest-Total 48.42 1.388 1989.0625_13:35 208.89 n/a .000
02260# *****
02261# CONTINUOUS RAINFALL DATA
02262# *****
02263# ** END OF RUN : 88
02264#
02265#
02266#
02267#
02268#
02269#
02270#
02271# RUN:COMMAND#
02272# RO989C0000#
02273# START
02274# [ZERO = .00 hrs on 19890101]
02275# [METOD= 2 (Empirical, 2-metric output)]
02276# [INSTORM= 0]
02277# [NRUN = 000]
02278# *****
02279# # SWMHYM Ver:02/Jan 2001 <BETA> / INPUT DATA FILE
02280# # *****
02281# # Project Name: Barhavan Conservancy Development
02282# # Project Number: 1474
02283# # Date : 2021/Oct/18
02284# # Modeler : J.Burnett, P.Eng.
02285# # Updated : 2022/Dec/07 [JB]
02286# # Updated : 2022/Dec/13 [JP]
02287# # Updated : 2024/Mar/14 [JFS]
02288# # Company : J.F. Sabourin and Associates
02289# # License # : 2582634
02290# # *****
02291# # Ottawa International Airport (1967 - 2003)
02292# RO989C0002#
02293# READ AES DATA
02294# [Filename = YOM_1967_2007_123 ]
02295# [Start_date = 1989-01-01; End_date = 1989-12-31]
02296# [DT= 60,min; Length= 8040,hrs; WetHrs= 422; DryHrs= 7618; PTO= 523.20]
02297# Maximum average rainfall intensities over
02298# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02299# 22.70 12.60 8.93 5.75 3.03 1.69 1.14 .86 .55 mm/hr
02300# 22.70 28.20 26.80 34.50 36.30 40.40 41.30 42.50 mm
02301# 19890727 19890727 19890727 19890727 19891020 19891020 19891021 19891022
02302# Number of rainfall events per following interevent time
02303# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02304# 151 125 108 89 67 53 42 37 29
02305# Number of events with at least the following durations
02306# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02307# 150 81 52 19 5 0 0 0
02308# RO989C0003#
02309# COMPUTE API
02310# [APIIn= 50.00; APIQty= 9000; APIK= 9956]
02311# [APIMax= 55.10; APIAvg= 16.03; APImin= .02]
02312# *****
02313# # Barhavan Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02314# *****
02315# RO989C0004#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02316# CONTINUOUS NASBYD 5.0 01:West_1 14.27 .096 1989.0727_16:05 41.43 079 .000
02317# [CN= 12.0; B= 3.00; T= 1.24]
02318# [IAREC= 6.00; EMIN= 39.75; SMAX=24.9; SK= .030]
02319# [InterventTime= 12.00]
02320# RO989C0005#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02321# CONTINUOUS NASBYD 5.0 01:West_2 20.14 .147 1989.0727_16:15 47.58 091 .000
02322# [CN= 12.0; B= 3.00; T= 1.24]
02323# [IAREC= 6.00; EMIN= 32.46; SMAX=216.39; SK= .030]
02324# [InterventTime= 12.00]
02325# RO989C0006#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02326# CONTINUOUS NASBYD 5.0 01:West_3 14.01 .060 1989.0727_17:15 40.31 077 .000
02327# [CN= 12.0; B= 3.00; T= 1.24]
02328# [IAREC= 6.00; EMIN= 41.38; SMAX=275.84; SK= .030]
02329# [InterventTime= 12.00]
02330# RO989C0007#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02331# ADD HYD + 5.0 02:West_1 14.27 .096 1989.0727_16:05 41.43 n/a .000
02332# + 5.0 02:West_2 20.14 .147 1989.0727_16:15 47.58 n/a .000
02333# + 5.0 02:West_3 14.01 .060 1989.0727_17:15 40.31 n/a .000
02334# SBM= 5.0 01:West-Total 48.42 .292 1989.0727_16:20 43.66 n/a .000
02335# *****
02336# # Barhavan Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02337# *****
02338# # Set infiltration to 0 (CN = 99.99) for water balance analysis
02339# *****
02340# RO989C0008#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02341# CONTINUOUS NASBYD 5.0 01:West_1 14.27 .288 1990.0720_5:50 250.74 345 .000
02342# [CN= 12.0; B= 3.00; T= 1.24]
02343# [IAREC= 6.00; EMIN= 1.39; SMAX= 9.24; SK= .000]
02344# [InterventTime= 12.00]
02345# RO989C0009#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02346# CONTINUOUS NASBYD 5.0 01:INWest_2 20.14 .375 1990.0720_6:00 250.74 345 .000
02347# [CN= 10.0; B= 3.00; T= 1.24]
02348# [IAREC= 6.00; EMIN= 1.39; SMAX= 9.24; SK= .000]
02349# [InterventTime= 12.00]
02350# RO989C0010#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02351# CONTINUOUS NASBYD 5.0 01:INWest_3 14.01 .190 1990.0720_14:40 250.74 345 .000
02352# [CN= 10.0; B= 3.00; T= 1.24]
02353# [IAREC= 6.00; EMIN= 1.39; SMAX= 9.24; SK= .000]
02354# [InterventTime= 12.00]
02355# RO989C0011#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02356# ADD HYD + 5.0 02:INWest_1 14.27 .288 1990.0720_5:50 250.74 n/a .000
02357# + 5.0 02:INWest_2 20.14 .375 1990.0720_6:00 250.74 n/a .000
02358# + 5.0 02:INWest_3 14.01 .190 1990.0720_14:40 250.74 n/a .000
02359# SBM= 5.0 01:INWest-Total 48.42 .805 1990.0720_14:05 250.74 n/a .000
02360# *****
02361# CONTINUOUS RAINFALL DATA
02362# *****
02363# ** END OF RUN : 90
02364#
02365#
02366#
02367#
02368#
02369#
02370#
02371# RUN:COMMAND#
02372# RO989C0000#
02373# START
02374# [ZERO = .00 hrs on 19900101]
02375# [METOD= 2 (Empirical, 2-metric output)]
02376# [INSTORM= 0]
02377# [NRUN = 000]
02378# *****
02379# # SWMHYM Ver:02/Jan 2001 <BETA> / INPUT DATA FILE
02380# # *****
02381# # Project Name: Barhavan Conservancy Development
02382# # Project Number: 1474
02383# # Date : 2021/Oct/18
02384# # Modeler : J.Burnett, P.Eng.
02385# # Updated : 2022/Dec/07 [JB]
02386# # Updated : 2022/Dec/13 [JP]
02387# # Updated : 2024/Mar/14 [JFS]
02388# # Company : J.F. Sabourin and Associates
02389# # License # : 2582634
02390# # *****
02391# # Ottawa International Airport (1967 - 2003)
02392# RO989C0002#
02393# READ AES DATA
02394# [Filename = YOM_1967_2007_123 ]
02395# [Start_date = 1990-01-01; End_date = 1990-12-31]
02396# [DT= 60,min; Length= 7344,hrs; WetHrs= 618; DryHrs= 6726; PTO= 727.80]
02397# Maximum average rainfall intensities over
02398# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02399# 20.60 12.25 8.60 5.58 4.43 2.25 1.90 1.23 1.06 mm/hr
02400# 20.60 24.50 28.80 33.50 53.20 54.00 54.00 59.00 76.60 mm
02401# 19900720 19900720 19900828 19900828 19900720 19900720 19900720 19900720 19900723
02402# Number of rainfall events per following interevent time
02403# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02404# 204 156 141 107 84 66 56 47 33
02405# Number of events with at least the following durations
02406# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02407# 203 116 79 31 12 6 1 0 0
02408# RO989C0003#
02409# COMPUTE API
02410# [APIIn= 50.00; APIQty= 9000; APIK= 9956]
02411# [APIMax= 75.10; APIAvg= 23.47; APImin= 3.10]
02412# *****
02413# # Barhavan Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02414# *****
02415# RO989C0004#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02416# CONTINUOUS NASBYD 5.0 01:West_1 14.27 .186 1990.0720_14:05 85.06 117 .000
02417# [CN= 12.0; B= 3.00; T= 1.24]
02418# [IAREC= 6.00; EMIN= 39.75; SMAX=24.9; SK= .030]
02419# [InterventTime= 12.00]
02420# RO989C0005#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02421# CONTINUOUS NASBYD 5.0 01:West_2 20.14 .274 1990.0720_14:10 96.52 133 .000
02422# [CN= 12.0; B= 3.00; T= 1.24]
02423# [IAREC= 6.00; EMIN= 32.46; SMAX=216.39; SK= .030]
02424# [InterventTime= 12.00]
02425# RO989C0006#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02426# CONTINUOUS NASBYD 5.0 01:West_3 14.01 .126 1990.0720_14:55 82.91 114 .000
02427# [CN= 12.0; B= 3.00; T= 1.24]
02428# [IAREC= 6.00; EMIN= 41.38; SMAX=275.84; SK= .030]
02429# [InterventTime= 12.00]
02430# RO989C0007#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02431# ADD HYD + 5.0 02:West_1 14.27 .186 1990.0720_14:05 85.06 n/a .000
02432# + 5.0 02:West_2 20.14 .274 1990.0720_14:10 96.52 n/a .000
02433# + 5.0 02:West_3 14.01 .126 1990.0720_14:55 82.91 n/a .000
02434# SBM= 5.0 01:West-Total 48.42 573 1990.0720_14:15 89.21 n/a .000
02435# *****
02436# # Barhavan Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02437# *****
02438# # Set infiltration to 0 (CN = 99.99) for water balance analysis
02439# *****
02440# RO989C0008#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02441# CONTINUOUS NASBYD 5.0 01:INWest_1 14.27 .288 1990.0720_5:50 250.74 345 .000
02442# [CN= 12.0; B= 3.00; T= 1.24]
02443# [IAREC= 6.00; EMIN= 1.39; SMAX= 9.24; SK= .000]
02444# [InterventTime= 12.00]
02445# RO989C0009#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02446# CONTINUOUS NASBYD 5.0 01:INWest_2 20.14 .375 1990.0720_6:00 250.74 345 .000
02447# [CN= 10.0; B= 3.00; T= 1.24]
02448# [IAREC= 6.00; EMIN= 1.39; SMAX= 9.24; SK= .000]
02449# [InterventTime= 12.00]
02450# RO989C0010#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02451# CONTINUOUS NASBYD 5.0 01:INWest_3 14.01 .190 1990.0720_14:40 250.74 345 .000
02452# [CN= 10.0; B= 3.00; T= 1.24]
02453# [IAREC= 6.00; EMIN= 1.39; SMAX= 9.24; SK= .000]
02454# [InterventTime= 12.00]
02455# RO989C0011#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02456# ADD HYD + 5.0 02:INWest_1 14.27 .288 1990.0720_5:50 250.74 n/a .000
02457# + 5.0 02:INWest_2 20.14 .375 1990.0720_6:00 250.74 n/a .000
02458# + 5.0 02:INWest_3 14.01 .190 1990.0720_14:40 250.74 n/a .000
02459# SBM= 5.0 01:INWest-Total 48.42 .805 1990.0720_14:05 250.74 n/a .000
02460# *****
02461# CONTINUOUS RAINFALL DATA
02462# *****
02463# ** END OF RUN : 90
02464#
02465#
02466#
02467#
02468#
02469#
02470#
02471# RUN:COMMAND#
02472# RO989C0000#
02473# START
02474# [ZERO = .00 hrs on 19900101]
02475# [METOD= 2 (Empirical, 2-metric output)]
02476# [INSTORM= 0]
02477# [NRUN = 000]
02478# *****
02479# # SWMHYM Ver:02/Jan 2001 <BETA> / INPUT DATA FILE
02480# # *****
02481# # Project Name: Barhavan Conservancy Development
02482# # Project Number: 1474
02483# # Date : 2021/Oct/18
02484# # Modeler : J.Burnett, P.Eng.
02485# # Updated : 2022/Dec/07 [JB]
02486# # Updated : 2022/Dec/13 [JP]
02487# # Updated : 2024/Mar/14 [JFS]
02488# # Company : J.F. Sabourin and Associates
02489# # License # : 2582634
02490# # *****
02491# # Ottawa International Airport (1967 - 2003)
02492# RO989C0002#
02493# READ AES DATA
02494# [Filename = YOM_1967_2007_123 ]
02495# [Start_date = 1991-01-01; End_date = 1991-12-31]
02496# [DT= 60,min; Length= 8040,hrs; WetHrs= 486; DryHrs= 7554; PTO= 556.00]
02497# Maximum average rainfall intensities over
02498# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02499# 11.30 9.90 6.87 4.10 2.53 1.72 1.28 1.08 .79 mm/hr
02500# 11.30 19.80 20.60 24.60 30.40 41.20 46.00 51.60 57.00 mm
02501# 19910409 19910409 19910409 19910409 19910410 19910410 19910410 19910410 19910423
02502# Number of rainfall events per following interevent time
02503# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02504# 165 139 127 102 80 63 52 45 38
02505# Number of events with at least the following durations
02506# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02507# 164 89 56 21 6 1 0 0 0
02508# RO989C0003#
02509# COMPUTE API
02510# [APIIn= 50.00; APIQty= 9000; APIK= 9956]
02511# [APIMax= 72.80; APIAvg= 16.88; APImin= .26]
02512# *****
02513# # Barhavan Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02514# *****
02515# RO989C0004#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms
02516# CONTINUOUS NASBYD 5.0 01:West_1 14.27 .085 1991.0410_4:00 46.13 083 .000
02517# [CN= 12.0; B= 3.00; T= 1.24]
02518# [IAREC= 6.00; EMIN= 39.75; SMAX=24.9; SK= .030]
02519# [InterventTime= 12.00]
02520# RO989C0005#-----Othm-ID:INHYD-----AREAh-QFEARms-TpeakDate_hh:mm-----RvM-R-C-----DWfms

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02521> CONTINUOUS NASHYD 5.0 01:West_2 20.14 .125 1991.0410.4105 52.68 .095 .000
02522> [CN=16.0; W= 3.00; Tpe=1.14]
02523> [IAREC= 6.00; SMIN= 32.46; SMAX=216.39; EK= .030]
02524> [InterEventTime= 12.00]
02525> R0991C00008-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02526> CONTINUOUS NASHYD 5.0 01:West_3 14.01 .049 1991.0410.4155 44.92 .081 .000
02527> [CN=16.0; W= 3.00; Tpe=1.14]
02528> [IAREC= 6.00; SMIN= 41.38; SMAX=275.84; EK= .030]
02529> [InterEventTime= 12.00]
02530> R0991C00007-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02531> ADD HYD + 5.0 02:West_1 14.27 .085 1991.0410.4100 46.13 n/a .000
02532> + 5.0 02:West_2 20.14 .125 1991.0410.4105 52.68 n/a .000
02533> + 5.0 02:West_3 14.01 .049 1991.0410.4155 44.92 n/a .000
02534> SIRM= 5.0 01:West-Total 48.42 .252 1991.0410.4110 48.50 n/a .000
02535> [CN=16.0; W= 3.00; Tpe=1.28]
02536> # Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02537> *****
02538> # Set infiltration to 0 (CN = 99.99) for water balance analysis
02539> [InterEventTime= 12.00]
02540> R0991C00008-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02541> CONTINUOUS NASHYD 5.0 01:INF-West_1 14.27 .175 1991.0409.1140 159.83 .287 .000
02542> [CN=100.0; W= 3.00; Tpe=1.14]
02543> [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; EK= .000]
02544> [InterEventTime= 12.00]
02545> R0991C00009-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02546> CONTINUOUS NASHYD 5.0 01:INF-West_2 20.14 .228 1991.0409.1150 159.83 .287 .000
02547> [CN=100.0; W= 3.00; Tpe=1.14]
02548> [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; EK= .000]
02549> [InterEventTime= 12.00]
02550> R0991C00010-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02551> CONTINUOUS NASHYD 5.0 01:INF-West_3 14.01 .105 1991.0409.2145 159.83 .287 .000
02552> [CN=100.0; W= 3.00; Tpe=1.20]
02553> [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; EK= .000]
02554> [InterEventTime= 12.00]
02555> R0991C00011-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02556> ADD HYD + 5.0 02:INF-West_1 14.27 .175 1991.0409.1140 159.83 n/a .000
02557> + 5.0 02:INF-West_2 20.14 .228 1991.0409.1150 159.83 n/a .000
02558> + 5.0 02:INF-West_3 14.01 .105 1991.0409.2145 159.83 n/a .000
02559> SIRM= 5.0 01:INF-West-7 48.42 .490 1991.0409.1150 159.83 n/a .000
02560> [CN=100.0; W= 3.00; Tpe=1.28]
02561> # CONTINUOUS RAINFALL DATA
02562> *****
02563> ** END OF RUN : 91
02564>
02565>
02566>
02567>
02568>
02569>
02570>
02571> RUN:COMMAND#
02572> R0993C00001-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02573> START [TZERO = .00 hrs on 19920101]
02574> [METOUT= 2 (Histogram, 2-metric output)]
02575> [INFORM= 0]
02576> [NRUN = 008]
02577> *****
02578> # SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
02579> *****
02580> # Project Name: Barhaven Conservancy Development
02581> # Project Number: 1474
02582> # Date : 2021/Oct/18
02583> # Modeler : J.Burnett, P.Eng.
02584> # Updated : 2022/Dec/07 [LB]
02585> # Updated : 2022/Dec/13 [LP]
02586> # Updated : 2024/Oct/18 [JFS]
02587> # Company : J.F. Sabourin and Associates
02588> # License # : 2262434
02589> # Project Location: 1967-2003
02590> # Ottawa International Airport (1967 - 2003)
02591> *****
02592> R0993C00002-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02593> READ AED DATA
02594> [FileName = YOM_1967_2007_123 ]
02595> [Start_date = 1992.0101; End_date = 1992.1230]
02596> [DT= 60_min; Length= 8760_hrs; WetHrs= 551; DryHrs= 8209; PTO= 732.80]
02597> Maximum average rainfall intensities over
02598> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02599> 31.50 18.00 13.30 7.22 4.14 2.26 1.51 1.51 1.02 mm/hr
02600> 31.50 36.00 39.90 42.30 49.70 54.20 54.20 72.60 73.60 mm
02601> 1992004 1992004 1992004 1992004 1992007 1992011 1992015 1992019 1992023 1992027 date
02602> Number of rainfall events per following interevent time
02603> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02604> 1 90 151 132 100 60 40 30 26
02605> Number of events with at least the following durations
02606> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02607> 1 89 109 70 22 5 1 0 0
02608> R0993C00003-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02609> COMPUTE API
02610> [APIIn= 50.00; APIkdy= 9000; APIkms= 9956]
02611> [APIMax= 97.62; APIAvg= 20.33; APImin= 1.07]
02612> [CN= 72.0; W= 3.00; Tpe= 1.28]
02613> # Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02614> *****
02615> R0993C00004-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02616> CONTINUOUS NASHYD 5.0 01:West_1 14.27 .293 1992.0717.1920 94.75 .129 .000
02617> [CN= 16.0; W= 3.00; Tpe=1.14]
02618> [IAREC= 6.00; SMIN= 39.75; SMAX=264.99; EK= .030]
02619> [InterEventTime= 12.00]
02620> R0993C00005-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02621> CONTINUOUS NASHYD 5.0 01:West_2 20.14 .432 1992.0717.1925 106.69 .146 .000
02622> [CN= 16.0; W= 3.00; Tpe=1.14]
02623> [IAREC= 6.00; SMIN= 32.46; SMAX=216.39; EK= .030]
02624> [InterEventTime= 12.00]
02625> R0993C00006-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02626> CONTINUOUS NASHYD 5.0 01:West_3 14.01 .191 1992.0717.2015 92.50 .126 .000
02627> [CN= 16.0; W= 3.00; Tpe=1.14]
02628> [IAREC= 6.00; SMIN= 41.38; SMAX=275.84; EK= .030]
02629> [InterEventTime= 12.00]
02630> R0993C00007-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02631> ADD HYD + 5.0 02:West_1 14.27 .293 1992.0717.1920 94.75 n/a .000
02632> + 5.0 02:West_2 20.14 .432 1992.0717.1925 106.69 n/a .000
02633> + 5.0 02:West_3 14.01 .191 1992.0717.2015 92.50 n/a .000
02634> SIRM= 5.0 01:West-Total 48.42 .890 1992.0717.1930 99.07 n/a .000
02635> [CN=16.0; W= 3.00; Tpe=1.28]
02636> # Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02637> *****
02638> # Set infiltration to 0 (CN = 99.99) for water balance analysis
02639> [InterEventTime= 12.00]
02640> R0993C00008-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02641> CONTINUOUS NASHYD 5.0 01:INF-West_1 14.27 .486 1992.0717.1910 266.21 .363 .000
02642> [CN=100.0; W= 3.00; Tpe=1.14]
02643> [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; EK= .000]
02644> [InterEventTime= 12.00]
02645> R0993C00009-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02646> CONTINUOUS NASHYD 5.0 01:INF-West_2 20.14 .650 1992.0717.1910 266.21 .363 .000
02647> [CN=100.0; W= 3.00; Tpe=1.14]
02648> [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; EK= .000]
02649> [InterEventTime= 12.00]
02650> R0993C00010-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02651> CONTINUOUS NASHYD 5.0 01:INF-West_3 14.01 .327 1992.0717.2010 266.21 .363 .000
02652> [CN=100.0; W= 3.00; Tpe=1.20]
02653> [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; EK= .000]
02654> [InterEventTime= 12.00]
02655> R0993C00011-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02656> ADD HYD + 5.0 02:INF-West_1 14.27 .486 1992.0717.1910 266.21 n/a .000
02657> + 5.0 02:INF-West_2 20.14 .650 1992.0717.1910 266.21 n/a .000
02658> + 5.0 02:INF-West_3 14.01 .327 1992.0717.2010 266.21 n/a .000
02659> SIRM= 5.0 01:INF-West-7 48.42 .1420 1992.0717.1915 266.21 n/a .000
02660> [CN=100.0; W= 3.00; Tpe=1.28]
02661> # CONTINUOUS RAINFALL DATA
02662> *****
02663> ** END OF RUN : 92
02664>
02665>
02666>
02667>
02668>
02669>
02670>
02671> RUN:COMMAND#
02672> R0993C00001-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02673> START [TZERO = .00 hrs on 19930101]
02674> [METOUT= 2 (Histogram, 2-metric output)]
02675> [INFORM= 0]
02676> [NRUN = 008]
02677> *****
02678> # SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
02679> *****
02680> # Project Name: Barhaven Conservancy Development
02681> # Project Number: 1474
02682> # Date : 2021/Oct/18
02683> # Modeler : J.Burnett, P.Eng.
02684> # Updated : 2022/Dec/07 [LB]
02685> # Updated : 2022/Dec/13 [LP]
02686> # Updated : 2024/Oct/18 [JFS]
02687> # Company : J.F. Sabourin and Associates
02688> # License # : 2262434
02689> # Project Location: 1967-2003
02690> # Ottawa International Airport (1967 - 2003)
02691> *****
02692> R0993C00002-----Othm-ID:INHYD-----AREHA-QFEARMS-TpeaDate_hh:mm-----Rvm-R-C-----DWFCMS
02693> READ AED DATA
02694> [FileName = YOM_1967_2007_123 ]
02695> [Start_date = 1993.0101; End_date = 1993.1231]
02696> [DT= 60_min; Length= 8760_hrs; WetHrs= 585; DryHrs= 8175; PTO= 721.30]
02697> Maximum average rainfall intensities over
02698> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02699> 12.60 6.60 4.83 3.72 3.58 2.31 1.61 1.21 .81 mm/hr
02700> 12.60 13.20 14.90 22.30 43.00 55.10 55.10 58.10 58.10

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02881# Project Name: Barhavan Conservancy Development
02882# Project Number: 1474
02883# Date: 2021/Oct/18
02884# Modeler: J.Burnett, P.Eng.
02885# Updated: 2022/Dec/07 [LB]
02886# Updated: 2022/Dec/13 [LP]
02887# Updated: 2024/Mar/14 [SB]
02888# Company: J.F. Sabourin and Associates
02889# License #: 2262434
02890# *****
02891# Ottawa International Airport (1967 - 2003)
02892# R095/C0002 *****
02893# READ AES DATA
02894# [Filename = YOM_1967_2007_123]
02895# [Start_date = 1967.0101; End_date = 1995.1231]
02896# [DT= 60;min; Length= 8040;hrs; WetHrs= 132; DryHrs= 7708; PTO= 538.50]
02897# Maximum average rainfall intensities over
02898# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02899# 16.90 13.25 11.33 8.98 6.35 3.48 2.95 2.21 1.48 mm/hr
02900# 16.90 16.50 26.50 78.00 93.90 76.20 83.40 106.20 106.20 mm
02901# 19950603 19950603 19951006 19951006 19951006 19951006 19951007 19951007 19951008 date
02902# Number of rainfall events per following interevent time
02903# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02904# 91 73 65 55 47
02905# Number of events with at least the following durations 34 31 25
02906# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02907# 90 54 35 16 7 1 0 0
02908# R095/C0003 *****
02909# COMPUTE API
02910# [APItime = 50.00; APIkdy = 9000; APIkde = 9956]
02911# [APImax = 99.57; APIavg = 16.38; APImin = .00]
02912# *****
02913# Barhavan Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02914# [Start_date = 1997.0101; End_date = 1997.1231]
02915# [DT= 60;min; Length= 8040;hrs; WetHrs= 379; DryHrs= 7661; PTO= 433.20]
02916# Maximum average rainfall intensities over
02917# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02918# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
02919# [IntereventTime = 12.00]
02920# CONTINUOUS NASHVD 5.0 01;West_1 14.27 .311 1995.0603.9130 159.14 .296 .000
02921# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
02922# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
02923# [IntereventTime = 12.00]
02924# CONTINUOUS NASHVD 5.0 01;West_2 20.14 .442 1995.0603.9135 172.16 .320 .000
02925# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
02926# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
02927# CONTINUOUS NASHVD 5.0 01;West_3 14.01 .236 1995.1006.8135 156.38 .291 .000
02928# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
02929# [IAREC = 6.00; SMIN = 41.38; SMAX = 275.84; SK = .030]
02930# [IntereventTime = 12.00]
02931# ADD HYD + 5.0 02;West_1 14.27 .311 1995.0603.9130 159.14 n/a .000
02932# + 5.0 02;West_2 20.14 .442 1995.0603.9135 172.16 n/a .000
02933# + 5.0 02;West_3 14.01 .236 1995.1006.8135 156.38 n/a .000
02934# SSM = 5.0 01;West-Total 48.42 .959 1995.0603.9140 163.82 n/a .000
02935# *****
02936# Barhavan Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02937# *****
02938# Set infiltration to 0 (CN = 99.99) for water balance analysis
02939# *****
02940# R095/C0007 *****
02941# [Start_date = 1997.0101; End_date = 1997.1231]
02942# [DT= 60;min; Length= 8040;hrs; WetHrs= 1366; DryHrs= 6674; PTO= 538.50]
02943# Maximum average rainfall intensities over
02944# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02945# 16.90 13.25 11.33 8.98 6.35 3.48 2.95 2.21 1.48 mm/hr
02946# 16.90 16.50 26.50 78.00 93.90 76.20 83.40 106.20 106.20 mm
02947# 19970222 19970222 19970222 19970222 19970222 19970222 19970222 19970222 19970222 date
02948# Number of rainfall events per following interevent time
02949# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02950# 113 85 67 61 55 48 43 30
02951# Number of events with at least the following durations 34 31 25
02952# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02953# 112 70 44 6 0 0 0
02954# R095/C0008 *****
02955# COMPUTE API
02956# [APItime = 50.00; APIkdy = 9000; APIkde = 9956]
02957# [APImax = 50.00; APIavg = 13.66; APImin = .27]
02958# *****
02959# Barhavan Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02960# [Start_date = 1997.0101; End_date = 1997.1231]
02961# [DT= 60;min; Length= 8040;hrs; WetHrs= 379; DryHrs= 7661; PTO= 433.20]
02962# Maximum average rainfall intensities over
02963# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02964# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
02965# [IntereventTime = 12.00]
02966# CONTINUOUS NASHVD 5.0 01;West_1 14.27 .062 1997.0221.2135 27.92 .064 .000
02967# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
02968# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
02969# [IntereventTime = 12.00]
02970# CONTINUOUS NASHVD 5.0 01;West_2 20.14 .096 1997.0221.2140 32.31 .075 .000
02971# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
02972# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
02973# [IntereventTime = 12.00]
02974# CONTINUOUS NASHVD 5.0 01;West_3 14.01 .044 1997.0221.2125 27.13 .063 .000
02975# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
02976# [IAREC = 6.00; SMIN = 41.38; SMAX = 275.84; SK = .030]
02977# [IntereventTime = 12.00]
02978# ADD HYD + 5.0 02;West_1 14.27 .062 1997.0221.2135 27.92 n/a .000
02979# + 5.0 02;West_2 20.14 .096 1997.0221.2140 32.31 n/a .000
02980# + 5.0 02;West_3 14.01 .044 1997.0221.2125 27.13 n/a .000
02981# SSM = 5.0 01;West-Total 48.42 .199 1997.0221.2141 29.52 n/a .000
02982# *****
02983# Barhavan Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02984# *****
02985# Set infiltration to 0 (CN = 99.99) for water balance analysis
02986# *****
02987# R095/C0009 *****
02988# [Start_date = 1997.0101; End_date = 1997.1231]
02989# [DT= 60;min; Length= 8040;hrs; WetHrs= 1366; DryHrs= 6674; PTO= 538.50]
02990# Maximum average rainfall intensities over
02991# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02992# 16.90 13.25 11.33 8.98 6.35 3.48 2.95 2.21 1.48 mm/hr
02993# 16.90 16.50 26.50 78.00 93.90 76.20 83.40 106.20 106.20 mm
02994# 19970222 19970222 19970222 19970222 19970222 19970222 19970222 19970222 19970222 date
02995# Number of rainfall events per following interevent time
02996# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02997# 113 85 67 61 55 48 43 30
02998# Number of events with at least the following durations 34 31 25
02999# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03000# 112 70 44 6 0 0 0
03001# R095/C0010 *****
03002# COMPUTE API
03003# [APItime = 50.00; APIkdy = 9000; APIkde = 9956]
03004# [APImax = 63.22; APIavg = 19.39; APImin = .71]
03005# *****
03006# Barhavan Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03007# [Start_date = 1998.0101; End_date = 1998.1231]
03008# [DT= 60;min; Length= 8040;hrs; WetHrs= 291; DryHrs= 4797; PTO= 440.30]
03009# Maximum average rainfall intensities over
03010# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03011# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
03012# [IntereventTime = 12.00]
03013# CONTINUOUS NASHVD 5.0 01;West_1 14.27 .107 1996.0731.16130 46.34 .091 .000
03014# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
03015# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
03016# [IntereventTime = 12.00]
03017# CONTINUOUS NASHVD 5.0 01;West_2 20.14 .162 1996.0731.16140 53.26 .104 .000
03018# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
03019# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
03020# CONTINUOUS NASHVD 5.0 01;West_3 14.01 .064 1996.0731.17130 45.29 .088 .000
03021# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
03022# [IAREC = 6.00; SMIN = 41.38; SMAX = 275.84; SK = .030]
03023# [IntereventTime = 12.00]
03024# ADD HYD + 5.0 02;West_1 14.27 .107 1996.0731.16130 46.34 n/a .000
03025# + 5.0 02;West_2 20.14 .162 1996.0731.16140 53.26 n/a .000
03026# + 5.0 02;West_3 14.01 .064 1996.0731.17130 45.29 n/a .000
03027# SSM = 5.0 01;West-Total 48.42 .324 1996.0731.16140 49.87 n/a .000
03028# *****
03029# Barhavan Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03030# *****
03031# Set infiltration to 0 (CN = 99.99) for water balance analysis
03032# *****
03033# R095/C0011 *****
03034# [Start_date = 1998.0101; End_date = 1998.1231]
03035# [DT= 60;min; Length= 8040;hrs; WetHrs= 1366; DryHrs= 6674; PTO= 538.50]
03036# Maximum average rainfall intensities over
03037# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03038# 16.90 13.25 11.33 8.98 6.35 3.48 2.95 2.21 1.48 mm/hr
03039# 16.90 16.50 26.50 78.00 93.90 76.20 83.40 106.20 106.20 mm
03040# 19980101 19980101 19980101 19980101 19980101 19980101 19980101 19980101 19980101 date
03041# Number of rainfall events per following interevent time
03042# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03043# 125 64 43 6 1 0 0 0
03044# Number of events with at least the following durations 34 31 25
03045# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03046# 125 64 43 6 1 0 0 0
03047# R095/C0012 *****
03048# COMPUTE API
03049# [APItime = 50.00; APIkdy = 9000; APIkde = 9956]
03050# [APImax = 57.22; APIavg = 19.28; APImin = 1.69]
03051# *****
03052# Barhavan Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03053# [Start_date = 1998.0101; End_date = 1998.1231]
03054# [DT= 60;min; Length= 8040;hrs; WetHrs= 291; DryHrs= 4797; PTO= 440.30]
03055# Maximum average rainfall intensities over
03056# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03057# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
03058# [IntereventTime = 12.00]
03059# CONTINUOUS NASHVD 5.0 01;West_1 14.27 .070 1998.0921.1505 32.64 .074 .000
03060# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
03061# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
03062# [IntereventTime = 12.00]
03063# CONTINUOUS NASHVD 5.0 01;West_2 20.14 .103 1998.0921.1515 37.63 .085 .000
03064# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
03065# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
03066# [IntereventTime = 12.00]
03067# CONTINUOUS NASHVD 5.0 01;West_3 14.01 .040 1998.0921.1600 31.73 .072 .000
03068# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
03069# [IAREC = 6.00; SMIN = 41.38; SMAX = 275.84; SK = .030]
03070# [IntereventTime = 12.00]
03071# ADD HYD + 5.0 02;West_1 14.27 .070 1998.0921.1505 32.64 n/a .000
03072# + 5.0 02;West_2 20.14 .103 1998.0921.1515 37.63 n/a .000
03073# + 5.0 02;West_3 14.01 .040 1998.0921.1600 31.73 n/a .000
03074# SSM = 5.0 01;West-Total 48.42 .206 1998.0921.1515 34.75 n/a .000
03075# *****
03076# Barhavan Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03077# *****
03078# Set infiltration to 0 (CN = 99.99) for water balance analysis
03079# *****
03080# R098/C0008 *****
03081# [Start_date = 1998.0101; End_date = 1998.1231]
03082# [DT= 60;min; Length= 8040;hrs; WetHrs= 1366; DryHrs= 6674; PTO= 538.50]
03083# Maximum average rainfall intensities over
03084# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03085# 16.90 13.25 11.33 8.98 6.35 3.48 2.95 2.21 1.48 mm/hr
03086# 16.90 16.50 26.50 78.00 93.90 76.20 83.40 106.20 106.20 mm
03087# 19980227 19980227 19980227 19980227 19980227 19980227 19980227 19980227 19980227 date
03088# Number of rainfall events per following interevent time
03089# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03090# 125 64 43 6 1 0 0 0
03091# Number of events with at least the following durations 34 31 25
03092# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03093# 125 64 43 6 1 0 0 0
03094# R098/C0009 *****
03095# COMPUTE API
03096# [APItime = 50.00; APIkdy = 9000; APIkde = 9956]
03097# [APImax = 72.22; APIavg = 21.28; APImin = 1.69]
03098# *****
03099# Barhavan Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03100# [Start_date = 1998.0101; End_date = 1998.1231]
03101# [DT= 60;min; Length= 8040;hrs; WetHrs= 291; DryHrs= 4797; PTO= 440.30]
03102# Maximum average rainfall intensities over
03103# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03104# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
03105# [IntereventTime = 12.00]
03106# CONTINUOUS NASHVD 5.0 01;West_1 14.27 .070 1998.0921.1505 32.64 .074 .000
03107# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
03108# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
03109# [IntereventTime = 12.00]
03110# CONTINUOUS NASHVD 5.0 01;West_2 20.14 .103 1998.0921.1515 37.63 .085 .000
03111# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
03112# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
03113# [IntereventTime = 12.00]
03114# CONTINUOUS NASHVD 5.0 01;West_3 14.01 .040 1998.0921.1600 31.73 .072 .000
03115# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
03116# [IAREC = 6.00; SMIN = 41.38; SMAX = 275.84; SK = .030]
03117# [IntereventTime = 12.00]
03118# ADD HYD + 5.0 02;West_1 14.27 .070 1998.0921.1505 32.64 n/a .000
03119# + 5.0 02;West_2 20.14 .103 1998.0921.1515 37.63 n/a .000
03120# + 5.0 02;West_3 14.01 .040 1998.0921.1600 31.73 n/a .000
03121# SSM = 5.0 01;West-Total 48.42 .206 1998.0921.1515 34.75 n/a .000
03122# *****
03123# Barhavan Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03124# *****
03125# Set infiltration to 0 (CN = 99.99) for water balance analysis
03126# *****
03127# R098/C0010 *****
03128# [Start_date = 1998.0101; End_date = 1998.1231]
03129# [DT= 60;min; Length= 8040;hrs; WetHrs= 1366; DryHrs= 6674; PTO= 538.50]
03130# Maximum average rainfall intensities over
03131# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03132# 16.90 13.25 11.33 8.98 6.35 3.48 2.95 2.21 1.48 mm/hr
03133# 16.90 16.50 26.50 78.00 93.90 76.20 83.40 106.20 106.20 mm
03134# 19980227 19980227 19980227 19980227 19980227 19980227 19980227 19980227 19980227 date
03135# Number of rainfall events per following interevent time
03136# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03137# 125 64 43 6 1 0 0 0
03138# Number of events with at least the following durations 34 31 25
03139# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03140# 125 64 43 6 1 0 0 0
03141# R098/C0011 *****
03142# COMPUTE API
03143# [APItime = 50.00; APIkdy = 9000; APIkde = 9956]
03144# [APImax = 72.22; APIavg = 21.28; APImin = 1.69]
03145# *****
03146# Barhavan Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03147# [Start_date = 1998.0101; End_date = 1998.1231]
03148# [DT= 60;min; Length= 8040;hrs; WetHrs= 291; DryHrs= 4797; PTO= 440.30]
03149# Maximum average rainfall intensities over
03150# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03151# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
03152# [IntereventTime = 12.00]
03153# CONTINUOUS NASHVD 5.0 01;West_1 14.27 .070 1998.0921.1505 32.64 .074 .000
03154# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
03155# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
03156# [IntereventTime = 12.00]
03157# CONTINUOUS NASHVD 5.0 01;West_2 20.14 .103 1998.0921.1515 37.63 .085 .000
03158# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
03159# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
03160# [IntereventTime = 12.00]
03161# CONTINUOUS NASHVD 5.0 01;West_3 14.01 .040 1998.0921.1600 31.73 .072 .000
03162# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
03163# [IAREC = 6.00; SMIN = 41.38; SMAX = 275.84; SK = .030]
03164# [IntereventTime = 12.00]
03165# ADD HYD + 5.0 02;West_1 14.27 .070 1998.0921.1505 32.64 n/a .000
03166# + 5.0 02;West_2 20.14 .103 1998.0921.1515 37.63 n/a .000
03167# + 5.0 02;West_3 14.01 .040 1998.0921.1600 31.73 n/a .000
03168# SSM = 5.0 01;West-Total 48.42 .206 1998.0921.1515 34.75 n/a .000
03169# *****
03170# Barhavan Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03171# *****
03172# Set infiltration to 0 (CN = 99.99) for water balance analysis
03173# *****
03174# R098/C0012 *****
03175# [Start_date = 1998.0101; End_date = 1998.1231]
03176# [DT= 60;min; Length= 8040;hrs; WetHrs= 1366; DryHrs= 6674; PTO= 538.50]
03177# Maximum average rainfall intensities over
03178# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03179# 16.90 13.25 11.33 8.98 6.35 3.48 2.95 2.21 1.48 mm/hr
03180# 16.90 16.50 26.50 78.00 93.90 76.20 83.40 106.20 106.20 mm
03181# 19980227 19980227 19980227 19980227 19980227 19980227 19980227 19980227 19980227 date
03182# Number of rainfall events per following interevent time
03183# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03184# 125 64 43 6 1 0 0 0
03185# Number of events with at least the following durations 34 31 25
03186# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03187# 125 64 43 6 1 0 0 0
03188# R098/C0013 *****
03189# COMPUTE API
03190# [APItime = 50.00; APIkdy = 9000; APIkde = 9956]
03191# [APImax = 72.22; APIavg = 21.28; APImin = 1.69]
03192# *****
03193# Barhavan Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03194# [Start_date = 1998.0101; End_date = 1998.1231]
03195# [DT= 60;min; Length= 8040;hrs; WetHrs= 291; DryHrs= 4797; PTO= 440.30]
03196# Maximum average rainfall intensities over
03197# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03198# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
03199# [IntereventTime = 12.00]
03200# CONTINUOUS NASHVD 5.0 01;West_1 14.27 .070 1998.0921.1505 32.64 .074 .000
03201# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
03202# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
03203# [IntereventTime = 12.00]
03204# CONTINUOUS NASHVD 5.0 01;West_2 20.14 .103 1998.0921.1515 37.63 .085 .000
03205# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
03206# [IAREC = 6.00; SMIN = 39.75; SMAX = 264.99; SK = .030]
03207# [IntereventTime = 12.00]
03208# CONTINUOUS NASHVD 5.0 01;West_3 14.01 .040 1998.0921.1600 31.73 .072 .000
03209# [CN = 16.0; Hs = 3.00; Tpe = 1.24]
03210# [IAREC = 6.00; SMIN = 41.38; SMAX = 275.84; SK = .030]
03211# [IntereventTime = 12.00]
03212# ADD HYD + 5.0 02;West_1 14.27 .070 1998.0921.1505 32.64 n/a .000
03213# + 5.0 02;West_2 20.14 .103 1998.0921.1515 37.63 n/a .000
03214# + 5.0 02;West_3 14.01 .040 1998.0921.1600 31.73 n/a .000
03215# SSM = 5.0 01;West-Total 48.42 .206 1998.0921.1515 34.75 n/a .000
03216# *****
03217# Barhavan Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03218# *****
03219# Set infiltration to 0 (CN = 99.99) for water balance analysis
03220# *****
03221# R098/C0014 *****
03222# [Start_date = 1998.0101; End_date = 1998.1231]
03223# [DT= 60;min; Length= 8040;hrs; WetHrs= 1366; DryHrs= 6674; PTO= 538.50]
03224# Maximum average rainfall intensities over
03225# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03226# 16.90 13.25 11.33 8.98 6.35 3.48 2.95 2.21 1.48 mm/hr
03227# 16.90 16.50 26.50 7


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03601* 20030711 20030711 20030711 20030711 20031021 20031015 20030525 20030526 20030527 date
03602* Number of rainfall events per following increment time
03603* 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03604* 145 127 109 86 64 45 38 25 15
03605* Number of events with at least the following durations
03606* 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03607* 144 80 49 13 5 1 0 0 0
03608* R0103:C00002-----
03609* COMPUTE API
03610* [APIIntr= 50.00; APIKdy= .9500; APIKdt= .9956]
03611* [APIMax= 72.10; APIAvg= 28.54; APIMin= 4.70]
03612* -----
03613* # Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03614* #-----
03615* R0103:C00004-----Othar-D:NBHD-----AREAh-QFEAGms-TpeakDate_hh:mm-----SvNm-R.C-----DWFGms
03616* CONTINUOUS NASHVD 5.0 01:West_1 14.27 .149 2003.0711.17:45 76.16 .137 .000
03617* [CN= 12.0; N= 3.00; T= 1.14]
03618* [IaRE= 6.00; SMIN= 39.75; SMAX=264.99; BK= .030]
03619* [InterEventTime= 12.00]
03620* R0103:C00005-----Othar-D:NBHD-----AREAh-QFEAGms-TpeakDate_hh:mm-----SvNm-R.C-----DWFGms
03621* CONTINUOUS NASHVD 5.0 01:West_2 20.14 .221 2003.0711.17:50 86.07 n/a .000
03622* [CN= 16.0; N= 3.00; T= 1.28]
03623* [IaRE= 6.00; SMIN= 32.46; SMAX=216.39; BK= .030]
03624* [InterEventTime= 12.00]
03625* R0103:C00006-----Othar-D:NBHD-----AREAh-QFEAGms-TpeakDate_hh:mm-----SvNm-R.C-----DWFGms
03626* CONTINUOUS NASHVD 5.0 01:West_3 14.01 .091 2003.1021.9:50 74.30 .134 .000
03627* [CN= 11.0; N= 3.00; T= 1.07]
03628* [IaRE= 6.00; SMIN= 41.38; SMAX=275.84; BK= .030]
03629* [InterEventTime= 12.00]
03630* R0103:C00007-----Othar-D:NBHD-----AREAh-QFEAGms-TpeakDate_hh:mm-----SvNm-R.C-----DWFGms
03631* ADD HYD 5.0 02:West_1 14.27 .149 2003.0711.17:45 76.16 n/a .000
03632* + 5.0 02:West_2 20.14 .221 2003.0711.17:50 86.07 n/a .000
03633* + 5.0 02:West_3 14.01 .091 2003.1021.9:50 74.30 n/a .000
03634* SIm= 5.0 01:West-Total 48.42 .444 2003.0711.17:55 99.74 n/a .000
03635* #-----
03636* # Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03637* #-----
03638* # Set infiltration to 0 (CN = 99.99) for water balance analysis
03639* #-----
03640* R0103:C00008-----Othar-D:NBHD-----AREAh-QFEAGms-TpeakDate_hh:mm-----SvNm-R.C-----DWFGms
03641* CONTINUOUS NASHVD 5.0 01:1NF-West_1 14.27 .307 2003.0711.17:35 204.68 .369 .000
03642* [CN=10.0; N= 3.00; T= 1.28]
03643* [IaRE= 6.00; SMIN= 1.39; SMAX= 9.24; BK= .000]
03644* [InterEventTime= 12.00]
03645* R0103:C00009-----Othar-D:NBHD-----AREAh-QFEAGms-TpeakDate_hh:mm-----SvNm-R.C-----DWFGms
03646* CONTINUOUS NASHVD 5.0 01:1NF-West_2 20.14 .403 2003.0711.17:40 204.68 .369 .000
03647* [CN=10.0; N= 3.00; T= 1.07]
03648* [IaRE= 6.00; SMIN= 1.39; SMAX= 9.24; BK= .000]
03649* [InterEventTime= 12.00]
03650* R0103:C00010-----Othar-D:NBHD-----AREAh-QFEAGms-TpeakDate_hh:mm-----SvNm-R.C-----DWFGms
03651* CONTINUOUS NASHVD 5.0 01:1NF-West_3 14.01 .191 2003.0711.18:20 204.68 .369 .000
03652* [CN=10.0; N= 3.00; T= 1.07]
03653* [IaRE= 6.00; SMIN= 1.39; SMAX= 9.24; BK= .000]
03654* [InterEventTime= 12.00]
03655* R0103:C00011-----Othar-D:NBHD-----AREAh-QFEAGms-TpeakDate_hh:mm-----SvNm-R.C-----DWFGms
03656* ADD HYD 5.0 02:1NF-West_1 14.27 .307 2003.0711.17:35 204.68 n/a .000
03657* + 5.0 02:1NF-West_2 20.14 .403 2003.0711.17:40 204.68 n/a .000
03658* + 5.0 02:1NF-West_3 14.01 .191 2003.0711.18:20 204.68 n/a .000
03659* SIm= 5.0 01:1NF-West-7 48.42 .476 2003.0711.17:40 204.68 n/a .000
03660* #####
03661* # CONTINUOUS RAINFALL DATA
03662* #####
03663* R0103:C00002-----
03664* FINISH
03665* -----
03666* -----
03667* WARNINGS / ERRORS / NOTES
03668* -----
03669* R007:C00002 READ AEG DATA
03670* *** WARNING: Requested start date is less than start date in file.
03671* *** WARNING: Missing rainfall increments were set to 0.
03672* *** WARNING: Missing rainfall increments were set to 0.
03673* *** WARNING: Missing rainfall increments were set to 0.
03674* *** WARNING: Missing rainfall increments were set to 0.
03675* *** WARNING: Missing rainfall increments were set to 0.
03676* *** WARNING: Missing rainfall increments were set to 0.
03677* *** WARNING: Missing rainfall increments were set to 0.
03678* *** WARNING: Missing rainfall increments were set to 0.
03679* *** WARNING: Missing rainfall increments were set to 0.
03680* *** WARNING: Missing rainfall increments were set to 0.
03681* *** WARNING: Requested start date is less than start date in file.
03682* *** WARNING: Missing rainfall increments were set to 0.
03683* *** WARNING: Missing rainfall increments were set to 0.
03684* *** WARNING: Missing rainfall increments were set to 0.
03685* *** WARNING: Missing rainfall increments were set to 0.
03686* *** WARNING: Missing rainfall increments were set to 0.
03687* *** WARNING: Missing rainfall increments were set to 0.
03688* *** WARNING: Missing rainfall increments were set to 0.
03689* *** WARNING: Missing rainfall increments were set to 0.
03690* *** WARNING: Missing rainfall increments were set to 0.
03691* *** WARNING: Missing rainfall increments were set to 0.
03692* *** WARNING: Requested start date is less than start date in file.
03693* *** WARNING: Missing rainfall increments were set to 0.
03694* *** WARNING: Missing rainfall increments were set to 0.
03695* *** WARNING: Missing rainfall increments were set to 0.
03696* *** WARNING: Requested start date is less than start date in file.
03697* *** WARNING: Missing rainfall increments were set to 0.
03698* *** WARNING: Missing rainfall increments were set to 0.
03699* *** WARNING: Missing rainfall increments were set to 0.
03700* *** WARNING: Missing rainfall increments were set to 0.
03701* *** WARNING: Missing rainfall increments were set to 0.
03702* *** WARNING: Missing rainfall increments were set to 0.
03703* *** WARNING: Requested start date is less than start date in file.
03704* *** WARNING: Missing rainfall increments were set to 0.
03705* *** WARNING: Missing rainfall increments were set to 0.
03706* *** WARNING: Requested start date is less than start date in file.
03707* *** WARNING: Missing rainfall increments were set to 0.
03708* *** WARNING: Requested start date is less than start date in file.
03709* *** WARNING: Missing rainfall increments were set to 0.
03710* *** WARNING: Requested start date is less than start date in file.
03711* *** WARNING: Missing rainfall increments were set to 0.
03712* *** WARNING: Requested start date is less than start date in file.
03713* *** WARNING: Missing rainfall increments were set to 0.
03714* *** WARNING: Requested start date is less than start date in file.
03715* *** WARNING: Missing rainfall increments were set to 0.
03716* Simulation ended on 2024-03-14 at 20:05:19
03717* -----
03718* -----

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1  20      Metric units / ID Numbers OFF
2  *#*****
3  *# SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
4  *#*****
5  *# Project Name: Barrhaven Conservancy Development
6  *# Project Number: 1474
7  *# Date       : 2021/Oct/18
8  *# Modeller  : J.Burnett, P.Eng.
9  *# Updated   : 2024/Mar/14 [LP]
10 *# Company   : J.F. Sabourin and Associates
11 *# License #  : 2582634
12 *#*****
13 START          TZERO=[1967.0101], METOUT=[2], NSTORM=[0], NRUN=[67]
14 *%             [""] <--storm filename, one per line for NSTORM time
15 *%-----|-----
16 *# Ottawa International Airport (1967 - 2003)
17 READ AES DATA AES_FILENAME=["YOW_1967_2007.123"],
18 IELEM=[123], START_DATE=[0], END_DATE=[-364]
19 *%-----|-----
20 COMPUTE API    APII=[50], APIK=[0.90]/day
21 *%-----|-----
22 *#*****
23 *#           Barrhaven Conservancy Development Phase 3 (WITH INFILTRATION) -
24 POST DEVELOPMENT CONDITIONS
25 *#*****
26 CONTINUOUS STANDHYD NHYD=["W1"], DT=[5] (min), AREA=[5.76] (ha)
27 XIMP=[0.55], TIMP=[0.66], DWF=[0] (cms),
28 LOSS=[2]: SCS curve number CN=[71],
29 Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
30 MNP=[0.250], SCP=[0] (min),
31 Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[196] (m),
32 MNI=[0.013], SCI=[0] (min),
33 Continuous simulation parameters:
34 IaRECper=[6] (hrs), IaRECimp=[1.5] (hrs),
35 SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.03]/(mm),
36 InterEventTime=[12] (hrs), END=-1
37 *%-----|-----
38 *# LID for Outlet W1 (14 catchbasins, 30 m long trench each)
39 *# Assumed 420 m long trench 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm
40 diameter perforated pipe
41 *# Total Volume provided by LID - 96 m3
42 *# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
43 ROUTE RESERVOIR NHYDout=["W1-LID"], NHYDin=["W1"], RDT=[5] (min),
44 TABLE of ( OUTFLOW-STORAGE ) values
45 (cms) - (ha-m)
46 [ 0.0000 , 0.0000 ]
47 [ 0.0004 , 0.0001 ]
48 [ 0.0005 , 0.0096 ]
49 [ -1 , -1 ]
50 NHYDovf=["W1-LID-Out"],
51 *%-----|-----
52 CONTINUOUS STANDHYD NHYD=["W2"], DT=[5] (min), AREA=[8.51] (ha)
53 XIMP=[0.50], TIMP=[0.60], DWF=[0] (cms),
54 LOSS=[2]: SCS curve number CN=[71],
55 Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
56 MNP=[0.250], SCP=[0] (min),
57 Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[238] (m),

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53             MNI=[0.013], SCI=[0] (min),
54             Continuous simulation parameters:
55             IaREcper=[6] (hrs), IaREcimp=[1.5] (hrs),
56             SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.03]/(mm),
57             InterEventTime=[12] (hrs), END=-1
58 *%-----|-----
59 *# LID for Outlet W2 (19 catchbasins, 30 m long trench each)
60 *# Assumed 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm
61 diameter perforated pipe
62 *# Total Volume provided by LID - 131 m3
63 *# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
64 ROUTE RESERVOIR      NHYDout=["W2-LID"], NHYDin=["W2"], RDT=[5] (min),
65                       TABLE of ( OUTFLOW-STORAGE ) values
66                       (cms) - (ha-m)
67                       [ 0.0000 , 0.0000 ]
68                       [ 0.0006 , 0.0001 ]
69                       [ 0.0007 , 0.0131 ]
70                       [ -1 , -1 ]
71             NHYDovf=["W2-LID-Out"],
72 *%-----|-----
73 CONTINUOUS STANDHYD NHYD=["W3"], DT=[5] (min), AREA=[10.03] (ha)
74 XIMP=[0.66], TIMP=[0.76], DWF=[0] (cms),
75 LOSS=[2]: SCS curve number CN=[71],
76 Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
77 MNP=[0.250], SCP=[0] (min),
78 Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[259] (m),
79 MNI=[0.013], SCI=[0] (min),
80 Continuous simulation parameters:
81 IaREcper=[6] (hrs), IaREcimp=[1.5] (hrs),
82 SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.03]/(mm),
83 InterEventTime=[12] (hrs), END=-1
84 *%-----|-----
85 *# LID for Outlet W3 (28 catchbasins, 30 m long trench each)
86 *# Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm
87 diameter perforated pipe
88 *# Total Volume provided by LID - 193 m3
89 *# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
90 ROUTE RESERVOIR      NHYDout=["W3-LID"], NHYDin=["W3"], RDT=[5] (min),
91                       TABLE of ( OUTFLOW-STORAGE ) values
92                       (cms) - (ha-m)
93                       [ 0.0000 , 0.0000 ]
94                       [ 0.0010 , 0.0001 ]
95                       [ 0.0011 , 0.0193 ]
96                       [ -1 , -1 ]
97             NHYDovf=["W3-LID-Out"],
98 *%-----|-----
99 CONTINUOUS STANDHYD NHYD=["W4"], DT=[5] (min), AREA=[10.11] (ha)
100 XIMP=[0.60], TIMP=[0.70], DWF=[0] (cms),
101 LOSS=[2]: SCS curve number CN=[71],
102 Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
103 MNP=[0.250], SCP=[0] (min),
104 Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[260] (m),
105 MNI=[0.013], SCI=[0] (min),
106 Continuous simulation parameters:
107 IaREcper=[6] (hrs), IaREcimp=[1.5] (hrs),
108 SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.03]/(mm),
109 InterEventTime=[12] (hrs), END=-1
110 *%-----|-----
111 *# LID for Outlet W4 (27 catchbasins, 30 m long trench each)
112 *# Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm
113 diameter perforated pipe
114 *# Total Volume provided by LID - 186 m3
115 *# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
116 ROUTE RESERVOIR      NHYDout=["W4-LID"], NHYDin=["W4"], RDT=[5] (min),

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106             TABLE of ( OUTFLOW-STORAGE ) values
107             (cms) - (ha-m)
108             [ 0.0000 , 0.0000 ]
109             [ 0.0009 , 0.0001 ]
110             [ 0.0010 , 0.0186 ]
111             [ -1 , -1 ]
112             NHYDovf=["W4-LID-Out"],
113 *%-----|-----
114 CONTINUOUS STANDHYD NHYD=["W5"], DT=[5] (min), AREA=[6.20] (ha)
115 XIMP=[0.57], TIMP=[0.67], DWF=[0] (cms),
116 LOSS=[2]: SCS curve number CN=[71],
117 Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
118 MNP=[0.250], SCP=[0] (min),
119 Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[203] (m),
120 MNI=[0.013], SCI=[0] (min),
121 Continuous simulation parameters:
122 IaREcper=[6] (hrs), IaREcimp=[1.5] (hrs),
123 SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.03]/(mm),
124 InterEventTime=[12] (hrs), END=-1
125 *%-----|-----
126 *# LID for Outlet W5 (16 catchbasins, 30 m long trench each)
127 *# Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm
128 diameter perforated pipe
129 *# Total Volume provided by LID - 110 m³
130 *# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
131 ROUTE RESERVOIR NHYDout=["W5-LID"], NHYDin=["W5"], RDT=[5] (min),
132             TABLE of ( OUTFLOW-STORAGE ) values
133             (cms) - (ha-m)
134             [ 0.0000 , 0.0000 ]
135             [ 0.0005 , 0.0001 ]
136             [ 0.0006 , 0.0110 ]
137             [ -1 , -1 ]
138             NHYDovf=["W5-LID-Out"],
139 *%-----|-----
140 CONTINUOUS STANDHYD NHYD=["W6"], DT=[5] (min), AREA=[7.81] (ha)
141 XIMP=[0.71], TIMP=[0.81], DWF=[0] (cms),
142 LOSS=[2]: SCS curve number CN=[71],
143 Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
144 MNP=[0.250], SCP=[0] (min),
145 Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[228] (m),
146 MNI=[0.013], SCI=[0] (min),
147 Continuous simulation parameters:
148 IaREcper=[6] (hrs), IaREcimp=[1.5] (hrs),
149 SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.03]/(mm),
150 InterEventTime=[12] (hrs), END=-1
151 *%-----|-----
152 *# LID for Outlet W6 (24 catchbasins, 30 m long trench each)
153 *# Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm
154 diameter perforated pipe
155 *# Total Volume provided by LID - 165 m³
156 *# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
157 ROUTE RESERVOIR NHYDout=["W6-LID"], NHYDin=["W6"], RDT=[5] (min),
158             TABLE of ( OUTFLOW-STORAGE ) values
159             (cms) - (ha-m)
160             [ 0.0000 , 0.0000 ]
161             [ 0.0008 , 0.0001 ]
162             [ 0.0009 , 0.0165 ]
163             [ -1 , -1 ]
164             NHYDovf=["W6-LID-Out"],
165 *%-----|-----
166 *Development Without LIDs
167 ADD HYD NHYDsum=["BCD-PH3"], NHYDs to add=["W1", "W2", "W3", "W4", "W5", "W6"]
168 *%-----|-----

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161 *Development With LIDs
162 ADD HYD          NHYDsum=["BCD-PH3-LID"], NHYDs to
add=["W1-LID-Out", "W2-LID-Out", "W3-LID-Out", "W4-LID-Out", "W5-LID-Out", "W6-LID-Out"]
163 *%-----|-----
-----|
164 *#*****
*****
165 *#          Barrhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) -
POST DEVELOPMENT CONDITIONS
166 *#*****
*****
167 *#          Set infiltration to 0 (CN = 99.99) for water balance analysis
168 *#*****
*****
169 *%-----|-----
-----|
170 CONTINUOUS STANDHYD NHYD=["INF-W1"], DT=[5] (min), AREA=[5.76] (ha)
171 XIMP=[0.55], TIMP=[0.66], DWF=[0] (cms),
172 LOSS=[2]: SCS curve number CN=[99.99],
173 Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
MNP=[0.250], SCP=[0] (min),
174 Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[196] (m),
MNI=[0.013], SCI=[0] (min),
175 Continuous simulation parameters:
176 IaREcper=[6] (hrs), IaREcimp=[1.5] (hrs),
177 SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.00]/(mm),
InterEventTime=[12] (hrs), END=-1
178 *%-----|-----
-----|
179 CONTINUOUS STANDHYD NHYD=["INF-W2"], DT=[5] (min), AREA=[8.51] (ha)
180 XIMP=[0.50], TIMP=[0.60], DWF=[0] (cms),
181 LOSS=[2]: SCS curve number CN=[99.99],
182 Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
MNP=[0.250], SCP=[0] (min),
183 Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[238] (m),
MNI=[0.013], SCI=[0] (min),
184 Continuous simulation parameters:
185 IaREcper=[6] (hrs), IaREcimp=[1.5] (hrs),
186 SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.00]/(mm),
InterEventTime=[12] (hrs), END=-1
187 *%-----|-----
-----|
188 CONTINUOUS STANDHYD NHYD=["INF-W3"], DT=[5] (min), AREA=[10.03] (ha)
189 XIMP=[0.66], TIMP=[0.76], DWF=[0] (cms),
190 LOSS=[2]: SCS curve number CN=[99.99],
191 Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
MNP=[0.250], SCP=[0] (min),
192 Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[259] (m),
MNI=[0.013], SCI=[0] (min),
193 Continuous simulation parameters:
194 IaREcper=[6] (hrs), IaREcimp=[1.5] (hrs),
195 SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.00]/(mm),
InterEventTime=[12] (hrs), END=-1
196 *%-----|-----
-----|
197 CONTINUOUS STANDHYD NHYD=["INF-W4"], DT=[5] (min), AREA=[10.11] (ha)
198 XIMP=[0.60], TIMP=[0.70], DWF=[0] (cms),
199 LOSS=[2]: SCS curve number CN=[99.99],
200 Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
MNP=[0.250], SCP=[0] (min),
201 Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[260] (m),
MNI=[0.013], SCI=[0] (min),
202 Continuous simulation parameters:
203 IaREcper=[6] (hrs), IaREcimp=[1.5] (hrs),
204 SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.00]/(mm),
InterEventTime=[12] (hrs), END=-1
205 *%-----|-----
-----|
206 CONTINUOUS STANDHYD NHYD=["INF-W5"], DT=[5] (min), AREA=[6.20] (ha)

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207          XIMP=[0.57], TIMP=[0.67], DWF=[0] (cms),
208          LOSS=[2]: SCS curve number CN=[99.99],
209          Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
          MNP=[0.250], SCP=[0] (min),
210          Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[203] (m),
          MNI=[0.013], SCI=[0] (min),
211          Continuous simulation parameters:
212          IaRECper=[6] (hrs), IaRECimp=[1.5] (hrs),
213          SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.00]/(mm),
          InterEventTime=[12] (hrs), END=-1
214  *%-----|-----
          |-----|
215 CONTINUOUS STANDHYD NHYD=["INF-W6"], DT=[5] (min), AREA=[7.81] (ha)
216          XIMP=[0.71], TIMP=[0.81], DWF=[0] (cms),
217          LOSS=[2]: SCS curve number CN=[99.99],
218          Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
          MNP=[0.250], SCP=[0] (min),
219          Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[228] (m),
          MNI=[0.013], SCI=[0] (min),
220          Continuous simulation parameters:
221          IaRECper=[6] (hrs), IaRECimp=[1.5] (hrs),
222          SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.00]/(mm),
          InterEventTime=[12] (hrs), END=-1
223  *%-----|-----
          |-----|
224  *Development Without Infiltration for water budget
225 ADD HYD          NHYDsum=["INF-BCD-PH3"], NHYDs to add=["INF-W1", "INF-W2", "INF-W3",
          "INF-W4", "INF-W5", "INF-W6"]
226  *%-----|-----
          |-----|
227  *#####
228  *# CONTINUOUS RAINFALL DATA
229  *#####
230  *%-----|-----
          |-----|
231  *%-----|-----
          |-----|
232 START          TZERO=[1968.0101], METOUT=[2], NSTORM=[0], NRUN=[68]
233  *%-----|-----
          |-----|
234 START          TZERO=[1969.0101], METOUT=[2], NSTORM=[0], NRUN=[69]
235  *%-----|-----
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236 START          TZERO=[1970.0101], METOUT=[2], NSTORM=[0], NRUN=[70]
237  *%-----|-----
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238 START          TZERO=[1971.0101], METOUT=[2], NSTORM=[0], NRUN=[71]
239  *%-----|-----
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240 START          TZERO=[1972.0101], METOUT=[2], NSTORM=[0], NRUN=[72]
241  *%-----|-----
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242 START          TZERO=[1973.0101], METOUT=[2], NSTORM=[0], NRUN=[73]
243  *%-----|-----
          |-----|
244 START          TZERO=[1974.0101], METOUT=[2], NSTORM=[0], NRUN=[74]
245  *%-----|-----
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246 START          TZERO=[1975.0101], METOUT=[2], NSTORM=[0], NRUN=[75]
247  *%-----|-----
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248 START          TZERO=[1976.0101], METOUT=[2], NSTORM=[0], NRUN=[76]
249  *%-----|-----
          |-----|
250 START          TZERO=[1977.0101], METOUT=[2], NSTORM=[0], NRUN=[77]
251  *%-----|-----
          |-----|
252 START          TZERO=[1978.0101], METOUT=[2], NSTORM=[0], NRUN=[78]
253  *%-----|-----
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254 START TZERO=[1979.0101], METOUT=[2], NSTORM=[0], NRUN=[79]

255 *%-----

256 START TZERO=[1980.0101], METOUT=[2], NSTORM=[0], NRUN=[80]

257 *%-----

258 START TZERO=[1981.0101], METOUT=[2], NSTORM=[0], NRUN=[81]

259 *%-----

260 START TZERO=[1982.0101], METOUT=[2], NSTORM=[0], NRUN=[82]

261 *%-----

262 START TZERO=[1983.0101], METOUT=[2], NSTORM=[0], NRUN=[83]

263 *%-----

264 START TZERO=[1984.0101], METOUT=[2], NSTORM=[0], NRUN=[84]

265 *%-----

266 START TZERO=[1985.0101], METOUT=[2], NSTORM=[0], NRUN=[85]

267 *%-----

268 START TZERO=[1986.0101], METOUT=[2], NSTORM=[0], NRUN=[86]

269 *%-----

270 START TZERO=[1987.0101], METOUT=[2], NSTORM=[0], NRUN=[87]

271 *%-----

272 START TZERO=[1988.0101], METOUT=[2], NSTORM=[0], NRUN=[88]

273 *%-----

274 START TZERO=[1989.0101], METOUT=[2], NSTORM=[0], NRUN=[89]

275 *%-----

276 START TZERO=[1990.0101], METOUT=[2], NSTORM=[0], NRUN=[90]

277 *%-----

278 START TZERO=[1991.0101], METOUT=[2], NSTORM=[0], NRUN=[91]

279 *%-----

280 START TZERO=[1992.0101], METOUT=[2], NSTORM=[0], NRUN=[92]

281 *%-----

282 START TZERO=[1993.0101], METOUT=[2], NSTORM=[0], NRUN=[93]

283 *%-----

284 START TZERO=[1994.0101], METOUT=[2], NSTORM=[0], NRUN=[94]

285 *%-----

286 START TZERO=[1995.0101], METOUT=[2], NSTORM=[0], NRUN=[95]

287 *%-----

288 START TZERO=[1996.0101], METOUT=[2], NSTORM=[0], NRUN=[96]

289 *%-----

290 START TZERO=[1997.0101], METOUT=[2], NSTORM=[0], NRUN=[97]

291 *%-----

292 START TZERO=[1998.0101], METOUT=[2], NSTORM=[0], NRUN=[98]

293 *%-----

294 START TZERO=[1999.0101], METOUT=[2], NSTORM=[0], NRUN=[99]

295 *%-----

296 START TZERO=[2000.0101], METOUT=[2], NSTORM=[0], NRUN=[100]

297 *%-----

298 *% MISSING FROM AES RAINFALL DATA

299 *%START TZERO=[2001.0101], METOUT=[2], NSTORM=[0], NRUN=[101]

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300 *%-----|-----  
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301 START          TZERO=[2002.0101],  METOUT=[2],  NSTORM=[0],  NRUN=[102]  
302 *%-----|-----  
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303 START          TZERO=[2003.0101],  METOUT=[2],  NSTORM=[0],  NRUN=[103]  
304 *%-----|-----  
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305 FINISH
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00005 SSSS W W M M H H Y Y M M M O          222 0 0 11 5 Ver 5.500
00006 S W W M M M H H Y Y M M M O          222 0 0 11 555 FEB 2013
00007 SSSS W W M M H H Y Y M M M O          222 0 0 11 5 .....
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00009 StormWater Management Hydrologic Model 222 000 11 555 .....
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00361 CONTINUOUS STANDBY 5.0 01:INW2 8.51 .496 1968.0817.5 500 263.54 445 .000
00362 [LGS2 2 ICM=71.0]
00363 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.IMP=250;SCP= .0]
00364 [Impervious area: IArea= 1.57;SIFP= .50;LGT= 238.IMP= .013;SCI= .0]
00365 [IARClamp= 1.50; IARECape= 6.00]
00366 [SMIN= 41.38; SMAK=275.84; SX= .030]
00367 # LID for Outlet W2 (19 catchbasin, 30 m long trench each)
00368 # Assumed 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00369 # Total Volume provided by LID = 192 m3
00370 # Soil infiltration rates assumed at 9m/hr with a safety factor of 2.5
00371 ROUTE RESERVOIR -> 5.0 02:INW2 8.51 .496 1968.0817.5 500 263.54 n/a .000
00372 out <= 5.0 01:INW-LID 2.17 .001 1968.0202.3115 243.55 n/a .000
00373 overlow <= 5.0 03:INW-LID 6.24 .638 1968.0817.5 500 263.54 n/a .000
00374 [MdtOsead=1310E-01 m3, TotOVVol=1.671E+01 m3, N-OvF= 114, TotDUovF= 165 hrs]
00375 # CONTINUOUS STANDBY 5.0 01:INW 10.11 .463 1968.0817.5 500 262.84 531 .000
00376 [XIMP=67;TIMP=6]
00377 [LGS2 2 ICM=71.0]
00378 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.IMP=250;SCP= .0]
00379 [Impervious area: IArea= 1.57;SIFP= .50;LGT= 238.IMP= .013;SCI= .0]
00380 [IARClamp= 1.50; IARECape= 6.00]
00381 [SMIN= 41.38; SMAK=275.84; SX= .030]
00382 # LID for Outlet W3 (28 catchbasin, 30 m long trench each)
00383 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00384 # Total Volume provided by LID = 192 m3
00385 # Soil infiltration rates assumed at 9m/hr with a safety factor of 2.5
00386 ROUTE RESERVOIR -> 5.0 02:INW2 8.51 .496 1968.0817.5 500 263.54 n/a .000
00387 out <= 5.0 01:INW-LID 2.65 .001 1968.0130.4100 326.56 n/a .000
00388 overlow <= 5.0 03:INW-LID 7.38 .689 1968.0817.5 500 326.56 n/a .000
00389 [MdtOsead=1930E-01 m3, TotOVVol=2.411E+01 m3, N-OvF= 110, TotDUovF= 167 hrs]
00390 # CONTINUOUS STANDBY 5.0 01:INW 10.11 .463 1968.0817.5 500 262.84 531 .000
00391 [XIMP=67;TIMP=6]
00392 [LGS2 2 ICM=71.0]
00393 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.IMP=250;SCP= .0]
00394 [Impervious area: IArea= 1.57;SIFP= .50;LGT= 238.IMP= .013;SCI= .0]
00395 [IARClamp= 1.50; IARECape= 6.00]
00396 [SMIN= 41.38; SMAK=275.84; SX= .030]
00397 # LID for Outlet W4 (27 catchbasin, 30 m long trench each)
00398 # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00399 # Total Volume provided by LID = 186 m3
00400 # Soil infiltration rates assumed at 9m/hr with a safety factor of 2.5
00401 ROUTE RESERVOIR -> 5.0 02:INW2 8.51 .496 1968.0817.5 500 263.54 n/a .000
00402 out <= 5.0 01:INW-LID 2.69 .001 1968.0202.3115 302.85 n/a .000
00403 overlow <= 5.0 03:INW-LID 4.42 .646 1968.0817.5 500 302.84 n/a .000
00404 [MdtOsead=180E-01 m3, TotOVVol=2.246E+01 m3, N-OvF= 109, TotDUovF= 164 hrs]
00405 # CONTINUOUS STANDBY 5.0 01:INW 10.11 .463 1968.0817.5 500 262.84 531 .000
00406 [XIMP=67;TIMP=6]
00407 [LGS2 2 ICM=71.0]
00408 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.IMP=250;SCP= .0]
00409 [Impervious area: IArea= 1.57;SIFP= .50;LGT= 238.IMP= .013;SCI= .0]
00410 [IARClamp= 1.50; IARECape= 6.00]
00411 [SMIN= 41.38; SMAK=275.84; SX= .030]
00412 # LID for Outlet W5 (16 catchbasin, 30 m long trench each)
00413 # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00414 # Total Volume provided by LID = 110 m3
00415 # Soil infiltration rates assumed at 9m/hr with a safety factor of 2.5
00416 ROUTE RESERVOIR -> 5.0 02:INW2 8.51 .496 1968.0817.5 500 263.54 n/a .000
00417 out <= 5.0 01:INW-LID 1.45 .001 1968.0202.3115 291.03 n/a .000
00418 overlow <= 5.0 03:INW-LID 4.55 .384 1968.0817.5 500 291.03 n/a .000
00419 [MdtOsead=180E-01 m3, TotOVVol=3.242E+01 m3, N-OvF= 109, TotDUovF= 165 hrs]
00420 # CONTINUOUS STANDBY 5.0 01:INW 10.11 .463 1968.0817.5 500 262.84 531 .000
00421 [XIMP=67;TIMP=6]
00422 [LGS2 2 ICM=71.0]
00423 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.IMP=250;SCP= .0]
00424 [Impervious area: IArea= 1.57;SIFP= .50;LGT= 238.IMP= .013;SCI= .0]
00425 [IARClamp= 1.50; IARECape= 6.00]
00426 [SMIN= 41.38; SMAK=275.84; SX= .030]
00427 # LID for Outlet W6 (24 catchbasin, 30 m long trench each)
00428 # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00429 # Total Volume provided by LID = 165 m3
00430 # Soil infiltration rates assumed at 9m/hr with a safety factor of 2.5
00431 ROUTE RESERVOIR -> 5.0 02:INW2 8.51 .496 1968.0817.5 500 263.54 n/a .000
00432 out <= 5.0 01:INW-LID 1.45 .001 1968.0202.3115 291.03 n/a .000
00433 overlow <= 5.0 03:INW-LID 4.55 .384 1968.0817.5 500 291.03 n/a .000
00434 [MdtOsead=1500E-01 m3, TotOVVol=1.979E+01 m3, N-OvF= 103, TotDUovF= 165 hrs]
00435 # CONTINUOUS STANDBY 5.0 01:INW 10.11 .463 1968.0817.5 500 262.84 531 .000
00436 [XIMP=67;TIMP=6]
00437 [LGS2 2 ICM=71.0]
00438 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.IMP=250;SCP= .0]
00439 [Impervious area: IArea= 1.57;SIFP= .50;LGT= 238.IMP= .013;SCI= .0]
00440 [IARClamp= 1.50; IARECape= 6.00]
00441 [SMIN= 41.38; SMAK=275.84; SX= .030]
00442 # LID for Outlet W7 (24 catchbasin, 30 m long trench each)
00443 # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00444 # Total Volume provided by LID = 165 m3
00445 # Soil infiltration rates assumed at 9m/hr with a safety factor of 2.5
00446 ROUTE RESERVOIR -> 5.0 02:INW2 8.51 .496 1968.0817.5 500 263.54 n/a .000
00447 out <= 5.0 01:INW-LID 1.45 .001 1968.0202.3115 291.03 n/a .000
00448 overlow <= 5.0 03:INW-LID 4.55 .384 1968.0817.5 500 291.03 n/a .000
00449 [MdtOsead=1500E-01 m3, TotOVVol=1.979E+01 m3, N-OvF= 103, TotDUovF= 165 hrs]
00450 # CONTINUOUS STANDBY 5.0 01:INW 10.11 .463 1968.0817.5 500 262.84 531 .000
00451 [XIMP=67;TIMP=6]
00452 [LGS2 2 ICM=71.0]
00453 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.IMP=250;SCP= .0]
00454 [Impervious area: IArea= 1.57;SIFP= .50;LGT= 238.IMP= .013;SCI= .0]
00455 [IARClamp= 1.50; IARECape= 6.00]
00456 [SMIN= 41.38; SMAK=275.84; SX= .030]
00457 # LID for Outlet W8 (24 catchbasin, 30 m long trench each)
00458 # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00459 # Total Volume provided by LID = 165 m3
00460 # Soil infiltration rates assumed at 9m/hr with a safety factor of 2.5
00461 ROUTE RESERVOIR -> 5.0 02:INW2 8.51 .496 1968.0817.5 500 263.54 n/a .000
00462 out <= 5.0 01:INW-LID 3.57 0.317 1968.0817.5 500 304.62 n/a .000
00463 overlow <= 5.0 03:INW-LID 5.71 .569 1968.0817.5 500 346.56 n/a .000
00464 [MdtOsead=180E-01 m3, TotOVVol=3.117E+01 m3, N-OvF= 109, TotDUovF= 164 hrs]
00465 # CONTINUOUS STANDBY 5.0 01:INW-W1 5.76 .496 1968.0817.5 500 362.10 611 .000
00466 [XIMP=55;TIMP=6]
00467 [LGS2 2 ICM=100.0]
00468 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.IMP=250;SCP= .0]
00469 [Impervious area: IArea= 1.57;SIFP= .50;LGT= 196.IMP= .013;SCI= .0]
00470 [IARClamp= 1.50; IARECape= 6.00]
00471 [SMIN= 1.39; SMAK= 9.24; SX= .000]
00472 # CONTINUOUS STANDBY 5.0 01:INW-W2 7.81 .496 1968.0817.5 500 347.48 587 .000
00473 [XIMP=50;TIMP=6]
00474 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.IMP=250;SCP= .0]
00475 [Impervious area: IArea= 1.57;SIFP= .50;LGT= 196.IMP= .013;SCI= .0]
00476 [IARClamp= 1.50; IARECape= 6.00]
00477 [SMIN= 1.39; SMAK= 9.24; SX= .000]
00478 # CONTINUOUS STANDBY 5.0 01:INW-W3 10.03 .496 1968.0817.5 500 347.48 587 .000
00479 [XIMP=50;TIMP=6]
00480 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.IMP=250;SCP= .0]
00481 [Impervious area: IArea= 1.57;SIFP= .50;LGT= 238.IMP= .013;SCI= .0]
00482 [IARClamp= 1.50; IARECape= 6.00]
00483 [SMIN= 1.39; SMAK= 9.24; SX= .000]
00484 # CONTINUOUS STANDBY 5.0 01:INW-W4 10.03 .496 1968.0817.5 500 347.48 587 .000
00485 [XIMP=50;TIMP=6]
00486 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.IMP=250;SCP= .0]
00487 [Impervious area: IArea= 1.57;SIFP= .50;LGT= 238.IMP= .013;SCI= .0]
00488 [IARClamp= 1.50; IARECape= 6.00]
00489 [SMIN= 1.39; SMAK= 9.24; SX= .000]
00490 # CONTINUOUS STANDBY 5.0 01:INW-W5 6.20 .528 1968.0817.5 500 364.85 615 .000
00491 [XIMP=57;TIMP=6]
00492 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.IMP=250;SCP= .0]
00493 [Impervious area: IArea= 1.57;SIFP= .50;LGT= 238.IMP= .013;SCI= .0]
00494 [IARClamp= 1.50; IARECape= 6.00]
00495 [SMIN= 1.39; SMAK= 9.24; SX= .000]
00496 # CONTINUOUS STANDBY 5.0 01:INW-W6 7.81 .496 1968.0817.5 500 347.48 587 .000
00497 [XIMP=57;TIMP=6]
00498 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.IMP=250;SCP= .0]
00499 [Impervious area: IArea= 1.57;SIFP= .50;LGT= 238.IMP= .013;SCI= .0]
00500 [IARClamp= 1.50; IARECape= 6.00]
00501 [SMIN= 1.39; SMAK= 9.24; SX= .000]
00502 # CONTINUOUS STANDBY 5.0 01:INW-W7 10.11 .463 1968.0817.5 500 372.28 628 .000
00503 [XIMP=57;TIMP=6]
00504 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.IMP=250;SCP= .0]
00505 [Impervious area: IArea= 1.57;SIFP= .50;LGT= 238.IMP= .013;SCI= .0]
00506 [IARClamp= 1.50; IARECape= 6.00]
00507 [SMIN= 1.39; SMAK= 9.24; SX= .000]
00508 # CONTINUOUS STANDBY 5.0 01:INW-W8 10.11 .463 1968.0817.5 500 372.28 628 .000
00509 [XIMP=57;TIMP=6]
00510 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.IMP=250;SCP= .0]
00511 [Impervious area: IArea= 1.57;SIFP= .50;LGT= 238.IMP= .013;SCI= .0]
00512 [IARClamp= 1.50; IARECape= 6.00]
00513 [SMIN= 1.39; SMAK= 9.24; SX= .000]
00514 # CONTINUOUS STANDBY 5.0 01:INW-W9 8.51 .496 1968.0817.5 500 347.48 587 .000
00515 [XIMP=57;TIMP=6]
00516 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.IMP=250;SCP= .0]
00517 [Impervious area: IArea= 1.57;SIFP= .50;LGT= 238.IMP= .013;SCI= .0]
00518 [IARClamp= 1.50; IARECape= 6.00]
00519 [SMIN= 1.39; SMAK= 9.24; SX= .000]
00520 # CONTINUOUS STANDBY 5.0 01:INW-W10 8.51 .496 1968.0817.5 500 347.48 587 .000
00521 [XIMP=57;TIMP=6]
00522 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.IMP=250;SCP= .0]
00523 [Impervious area: IArea= 1.57;SIFP= .50;LGT= 238.IMP= .013;SCI= .0]
00524 [IARClamp= 1.50; IARECape= 6.00]
00525 [SMIN= 1.39; SMAK= 9.24; SX= .000]
00526 # CONTINUOUS RAINFALL DATA
00527 *****
00528 *****
00529 *****
00530 *****
00531 *****
00532 *****
00533 *****
00534 # RUN:COMMAND#
00535 # START
00536 [TZRO= .00 hrs on 19690101]
00537 [METRO= 2 ] [Impairal, 2,metric output]
00538 [INFORM= 0 ]
00539 [NNUN= 0049 ]
00540 *****

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007223 [SMIN= 1.39; SMAX= 9.24; SK= .000] -----AREHAh-GFEARms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
007224 R0696:CONTINUOUS STANDBY 5.0 01:1NF-W4 10.11 .559 1969.0818.22:00 343.93 603 .000
007225 [XIMP= 60:TIMP= 70]
007226 [LOGS= 2 :CN=100.0]
007227 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.0MNF=250;SCP= .0]
007228 [Impervious area: IAlmp= 1.57;SIFP= .50;LGT= 260.0MNI=.013;SICI= .0]
007229 [IARECLIP= 1.50; IARECPE= 6.00]
007230 [SMIN= 1.39; SMAX= 9.24; SK= .000] -----AREHAh-GFEARms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
007231 R0696:CONTINUOUS STANDBY 5.0 01:1NF-W5 6.20 .343 1969.0818.22:00 337.04 591 .000
007232 [XIMP= 60:TIMP= 70]
007233 [LOGS= 2 :CN=100.0]
007234 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.0MNF=250;SCP= .0]
007235 [Impervious area: IAlmp= 1.57;SIFP= .50;LGT= 228.0MNI=.013;SICI= .0]
007236 [IARECLIP= 1.50; IARECPE= 6.00]
007237 [SMIN= 1.39; SMAX= 9.24; SK= .000] -----AREHAh-GFEARms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
007238 R0696:CONTINUOUS STANDBY 5.0 01:1NF-W6 7.81 .443 1969.0818.22:00 369.49 648 .000
007239 [XIMP= 60:TIMP= 70]
007240 [LOGS= 2 :CN=100.0]
007241 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.0MNF=250;SCP= .0]
007242 [Impervious area: IAlmp= 1.57;SIFP= .50;LGT= 228.0MNI=.013;SICI= .0]
007243 [IARECLIP= 1.50; IARECPE= 6.00]
007244 [SMIN= 1.39; SMAX= 9.24; SK= .000] -----AREHAh-GFEARms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
007245 R0696:CONTINUOUS STANDBY 5.0 01:1NF-W7 8.51 .462 1969.0818.22:00 321.07 n/a .000
007246 [LOGS= 2 :CN=100.0]
007247 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.0MNF=250;SCP= .0]
007248 [Impervious area: IAlmp= 1.57;SIFP= .50;LGT= 260.0MNI=.013;SICI= .0]
007249 [IARECLIP= 1.50; IARECPE= 6.00]
007250 [SMIN= 1.39; SMAX= 9.24; SK= .000] -----AREHAh-GFEARms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
007251 R0696:CONTINUOUS STANDBY 5.0 01:1NF-W8 6.20 .343 1969.0818.22:00 337.04 n/a .000
007252 [XIMP= 60:TIMP= 70]
007253 [LOGS= 2 :CN=100.0]
007254 [Previous area: IArea= 4.67;SIFP=2.00;LGP= 40.0MNF=250;SCP= .0]
007255 [Impervious area: IAlmp= 1.57;SIFP= .50;LGT= 228.0MNI=.013;SICI= .0]
007256 [IARECLIP= 1.50; IARECPE= 6.00]
007257 [SMIN= 1.39; SMAX= 9.24; SK= .000] -----AREHAh-GFEARms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
007258 *****
007259 *****
007260 *****
007261 *****
007262 *****
007263 *****
007264 *****
007265 *****
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01081 # LID for Outlet W3 (28 catchbasins, 30 m long trench each)
01082 # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
01083 # Total Volume provided by LID = 193 m^3
01084 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
01085 ROUTE RESERVOIR -> 5.0 02/183 10.03 .485 1971.0810.1500 262.19 n/a .000
01086 overflow out <= 5.0 01/86-LID 7.01 .448 1971.0810.1500 262.19 n/a .000
01087 (MstOfUse=1.929E-01 m3, TotOfVol=1.837E+01 m3, N-Ofv= 100, TotDurOfv= 120 hrs)

Main body of the document containing technical data, logs, and system configurations. It includes numerous lines of code, numerical values, and labels such as 'CONTINUOUS STANDHYD', 'ROUTING RESERVOIR', and 'ADD HYD'. The text is organized into numbered sections, likely representing different time intervals or data points.


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02881 19790616 19790616 19790616 19790616 19790616 19790616 19790616 19790616 19790616 19790616 19790616 19790616
02882 # Number of following increment time
02883 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02884 188 147 129 103 86 60 53 43 36
02885 # Number of events with at least the following duration
02886 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02887 187 97 68 25 6 2 1 0 0
02888 ROUT97C0001-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
02889 # COMPUTE API
02890 [APNmax: 50.00; APFDkey: 9000; APFDkey: 9956]
02891 [APNmax: 68.72; APFDkey: 23.13; APFDkey: 13]
02892 *****
02893 # Barhaven Conservancy Development Phase 3 (WITH INFILTRATION) - POST DEVELOPMENT CONDITIONS
02894 # [APNmax: 50.00; APFDkey: 9000; APFDkey: 9956]
02895 ROUT97C0004-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
02896 CONTINUOUS STANDBYD 5.0 01:1M1 5.76 .411 1979.0616:14:00 455.94 1526 .000
02897 [XIMP: 50:TIMP:60]
02898 [LOGS: 2 :CNM: 71.0]
02899 [Previous area: IAPex: 4.67:SLFFP:2.00:LGW: 40.IMPW:250:SCPW: .0]
02900 [Imperious area: IAlmpe: 1.57:SLPI: .50:LI2: 238.IMPW:013:SCIP: .0]
02901 [IARClmpe: 1.50: IARSCPE: 6.00]
02902 [SMN: 41.38: SMAX: 275.84: SE: .030]
02903 # LID for Outlet W1 (14 catchbasins, 30 m long trench each)
02904 # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02905 # Total Volume provided by LID = 186 m3
02906 # Soil infiltration rates assumed at 9m/hr with a safety factor of 2.5
02907 ROUT97C0001-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
02908 ROUTE RESERVOIR -> 5.0 02:1M6 5.76 .411 1979.0616:14:00 455.94 n/a .000
02909 out <= 5.0 01:1M-LID 1.04 .001 1979.0101:19:45 455.95 n/a .000
02910 overflow <= 5.0 03:1M-LID 0.84 .762 1979.0616:14:00 455.94 n/a .000
02911 [MstUsed= .9599E-02 m3, TotOfVol= .2151E+01 m3, N-OfV= 117, TotDurOfV= 213 hrs]
02912 ROUT97C0001-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
02913 CONTINUOUS STANDBYD 5.0 01:1M2 8.51 .578 1979.0616:14:00 425.51 1491 .000
02914 [XIMP: 50:TIMP:60]
02915 [LOGS: 2 :CNM: 71.0]
02916 [Previous area: IAPex: 4.67:SLFFP:2.00:LGW: 40.IMPW:250:SCPW: .0]
02917 [Imperious area: IAlmpe: 1.57:SLPI: .50:LI2: 238.IMPW:013:SCIP: .0]
02918 [IARClmpe: 1.50: IARSCPE: 6.00]
02919 [SMN: 41.38: SMAX: 275.84: SE: .030]
02920 # LID for Outlet W1 (18 catchbasins, 30 m long trench each)
02921 # Assumed 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02922 # Total Volume provided by LID = 186 m3
02923 # Soil infiltration rates assumed at 9m/hr with a safety factor of 2.5
02924 ROUT97C0001-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
02925 ROUTE RESERVOIR -> 5.0 02:1M6 5.76 .411 1979.0616:14:00 425.51 n/a .000
02926 out <= 5.0 01:1M-LID 1.54 .001 1979.0101:19:55 425.51 n/a .000
02927 overflow <= 5.0 03:1M-LID 0.87 1.19 1979.0616:14:00 425.51 n/a .000
02928 [MstUsed= .1309E-01 m3, TotOfVol= .2366E+01 m3, N-OfV= 124, TotDurOfV= 214 hrs]
02929 ROUT97C0001-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
02930 CONTINUOUS STANDBYD 5.0 01:1M4 10.03 .788 1979.0616:14:00 546.48 1936 .000
02931 [XIMP: 66:TIMP:76]
02932 [LOGS: 2 :CNM: 01.0]
02933 [Previous area: IAPex: 4.67:SLFFP:2.00:LGW: 40.IMPW:250:SCPW: .0]
02934 [Imperious area: IAlmpe: 1.57:SLPI: .50:LI2: 259.IMPW:013:SCIP: .0]
02935 [IARClmpe: 1.50: IARSCPE: 6.00]
02936 [SMN: 41.38: SMAX: 275.84: SE: .030]
02937 # LID for Outlet W2 (28 catchbasins, 30 m long trench each)
02938 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02939 # Total Volume provided by LID = 193 m3
02940 # Soil infiltration rates assumed 9m/hr with a safety factor of 2.5
02941 ROUT97C0009-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
02942 ROUTE RESERVOIR -> 5.0 02:1M6 10.11 .793 1979.0616:14:00 482.39 n/a .000
02943 out <= 5.0 03:1M-LID 1.92 .001 1979.0101:19:45 516.68 n/a .000
02944 overflow <= 5.0 01:1M-LID 0.81 .767 1979.0616:14:00 516.68 n/a .000
02945 [MstUsed= .1309E-01 m3, TotOfVol= .4192E+01 m3, N-OfV= 129, TotDurOfV= 212 hrs]
02946 ROUT97C0011-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
02947 CONTINUOUS STANDBYD 5.0 01:1M4 10.11 .793 1979.0616:14:00 482.39 1557 .000
02948 [XIMP: 60:TIMP:70]
02949 [LOGS: 2 :CNM: 71.0]
02950 [Previous area: IAPex: 4.67:SLFFP:2.00:LGW: 40.IMPW:250:SCPW: .0]
02951 [Imperious area: IAlmpe: 1.57:SLPI: .50:LI2: 260.IMPW:013:SCIP: .0]
02952 [IARClmpe: 1.50: IARSCPE: 6.00]
02953 [SMN: 41.38: SMAX: 275.84: SE: .030]
02954 # LID for Outlet W2 (27 catchbasins, 30 m long trench each)
02955 # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02956 # Total Volume provided by LID = 186 m3
02957 # Soil infiltration rates assumed at 9m/hr with a safety factor of 2.5
02958 ROUT97C0011-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
02959 ROUTE RESERVOIR -> 5.0 02:1M6 10.11 .793 1979.0616:14:00 482.39 n/a .000
02960 out <= 5.0 01:1M-LID 1.84 .001 1979.0101:19:55 482.40 n/a .000
02961 overflow <= 5.0 03:1M-LID 0.87 .767 1979.0616:14:00 482.39 n/a .000
02962 [MstUsed= .1309E-01 m3, TotOfVol= .2342E+01 m3, N-OfV= 124, TotDurOfV= 214 hrs]
02963 ROUT97C0011-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
02964 CONTINUOUS STANDBYD 5.0 01:1M5 6.20 .468 1979.0616:14:00 465.26 1537 .000
02965 [XIMP: 66:TIMP:76]
02966 [LOGS: 2 :CNM: 71.0]
02967 [Previous area: IAPex: 4.67:SLFFP:2.00:LGW: 40.IMPW:250:SCPW: .0]
02968 [Imperious area: IAlmpe: 1.57:SLPI: .50:LI2: 203.IMPW:013:SCIP: .0]
02969 [IARClmpe: 1.50: IARSCPE: 6.00]
02970 [SMN: 41.38: SMAX: 275.84: SE: .030]
02971 # LID for Outlet W3 (16 catchbasins, 30 m long trench each)
02972 # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02973 # Total Volume provided by LID = 110 m3
02974 # Soil infiltration rates assumed at 9m/hr with a safety factor of 2.5
02975 ROUT97C0011-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
02976 ROUTE RESERVOIR -> 5.0 02:1M5 6.20 .468 1979.0616:14:00 465.26 n/a .000
02977 out <= 5.0 03:1M-LID 0.87 .767 1979.0616:14:00 465.26 n/a .000
02978 overflow <= 5.0 01:1M-LID 0.87 .767 1979.0616:14:00 465.26 n/a .000
02979 [MstUsed= .1100E-01 m3, TotOfVol= .2334E+01 m3, N-OfV= 117, TotDurOfV= 209 hrs]
02980 ROUT97C0014-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
02981 CONTINUOUS STANDBYD 5.0 01:1M5 7.81 .657 1979.0616:14:00 545.65 1630 .000
02982 [XIMP: 71:TIMP:81]
02983 [LOGS: 2 :CNM: 71.0]
02984 [Previous area: IAPex: 4.67:SLFFP:2.00:LGW: 40.IMPW:250:SCPW: .0]
02985 [Imperious area: IAlmpe: 1.57:SLPI: .50:LI2: 228.IMPW:013:SCIP: .0]
02986 [IARClmpe: 1.50: IARSCPE: 6.00]
02987 [SMN: 41.38: SMAX: 275.84: SE: .030]
02988 # LID for Outlet W4 (24 catchbasins, 30 m long trench each)
02989 # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02990 # Total Volume provided by LID = 186 m3
02991 # Soil infiltration rates assumed at 9m/hr with a safety factor of 2.5
02992 ROUT97C0015-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
02993 CONTINUOUS STANDBYD 5.0 01:1M5 7.81 .657 1979.0616:14:00 545.65 n/a .000
02994 ROUTE RESERVOIR -> 5.0 02:1M5 7.81 .657 1979.0616:14:00 545.65 n/a .000
02995 out <= 5.0 01:1M-LID 1.84 .001 1979.0101:19:45 545.65 n/a .000
02996 overflow <= 5.0 03:1M-LID 0.84 .762 1979.0616:14:00 545.65 n/a .000
02997 [MstUsed= .1649E-01 m3, TotOfVol= .3428E+01 m3, N-OfV= 124, TotDurOfV= 209 hrs]
02998 ROUT97C0015-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
02999 ADD HYD
03000 + 5.0 02:1M2 8.51 .578 1979.0616:14:00 425.51 n/a .000
03001 + 5.0 02:1M4 10.11 .793 1979.0616:14:00 482.39 n/a .000
03002 + 5.0 02:1M6 10.11 .793 1979.0616:14:00 482.39 n/a .000
03003 + 5.0 02:1M8 12.25 .997 1979.0616:14:00 545.94 n/a .000
03004 + 5.0 02:1M6 10.11 .793 1979.0616:14:00 482.39 n/a .000
03005 + 5.0 01:1M-LID 1.84 .001 1979.0101:19:45 482.39 n/a .000
03006 + 5.0 01:1M-LID 0.87 .762 1979.0616:14:00 482.39 n/a .000
03007 + 5.0 01:1M-LID 0.87 .762 1979.0616:14:00 482.39 n/a .000
03008 + 5.0 01:1M-LID 0.87 .762 1979.0616:14:00 482.39 n/a .000
03009 + 5.0 01:1M-LID 0.87 .762 1979.0616:14:00 482.39 n/a .000
03010 + 5.0 01:1M-LID 0.87 .762 1979.0616:14:00 482.39 n/a .000
03011 + 5.0 01:1M-LID 0.87 .762 1979.0616:14:00 482.39 n/a .000
03012 + 5.0 01:1M-LID 0.87 .762 1979.0616:14:00 482.39 n/a .000
03013 + 5.0 01:1M-LID 0.87 .762 1979.0616:14:00 482.39 n/a .000
03014 # Barhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS
03015 # [APNmax: 50.00; APFDkey: 9000; APFDkey: 9956]
03016 # Set infiltration to 0 (CN = 99.99) for water balance analysis
03017 *****
03018 ROUT97C0018-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
03019 CONTINUOUS STANDBYD 5.0 01:1M1 5.76 .411 1979.0616:14:00 577.15 1666 .000
03020 [XIMP: 55:TIMP:65]
03021 [LOGS: 2 :CNM: 100.0]
03022 [Previous area: IAPex: 4.67:SLFFP:2.00:LGW: 40.IMPW:250:SCPW: .0]
03023 [Imperious area: IAlmpe: 1.57:SLPI: .50:LI2: 196.IMPW:013:SCIP: .0]
03024 [IARClmpe: 1.50: IARSCPE: 6.00]
03025 [SMN: 1.39: SMAX: 9.24: SE: .000]
03026 ROUT97C0019-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
03027 CONTINUOUS STANDBYD 5.0 01:1M2 8.51 .578 1979.0616:14:00 557.82 1644 .000
03028 [XIMP: 50:TIMP:60]
03029 [LOGS: 2 :CNM: 100.0]
03030 [Previous area: IAPex: 4.67:SLFFP:2.00:LGW: 40.IMPW:250:SCPW: .0]
03031 [Imperious area: IAlmpe: 1.57:SLPI: .50:LI2: 238.IMPW:013:SCIP: .0]
03032 [IARClmpe: 1.50: IARSCPE: 6.00]
03033 [SMN: 1.39: SMAX: 9.24: SE: .000]
03034 ROUT97C0020-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
03035 CONTINUOUS STANDBYD 5.0 01:1M4 10.11 .793 1979.0616:14:00 610.15 1704 .000
03036 [XIMP: 66:TIMP:76]
03037 [LOGS: 2 :CNM: 100.0]
03038 [Previous area: IAPex: 4.67:SLFFP:2.00:LGW: 40.IMPW:250:SCPW: .0]
03039 [Imperious area: IAlmpe: 1.57:SLPI: .50:LI2: 259.IMPW:013:SCIP: .0]
03040 [IARClmpe: 1.50: IARSCPE: 6.00]
03041 [SMN: 1.39: SMAX: 9.24: SE: .000]
03042 ROUT97C0021-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
03043 CONTINUOUS STANDBYD 5.0 01:1M4 10.11 .793 1979.0616:14:00 590.39 1681 .000
03044 [XIMP: 60:TIMP:70]
03045 [LOGS: 2 :CNM: 100.0]
03046 [Previous area: IAPex: 4.67:SLFFP:2.00:LGW: 40.IMPW:250:SCPW: .0]
03047 [Imperious area: IAlmpe: 1.57:SLPI: .50:LI2: 260.IMPW:013:SCIP: .0]
03048 [IARClmpe: 1.50: IARSCPE: 6.00]
03049 [SMN: 1.39: SMAX: 9.24: SE: .000]
03050 ROUT97C0022-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
03051 CONTINUOUS STANDBYD 5.0 01:1M5 6.20 .468 1979.0616:14:00 580.37 1670 .000
03052 [XIMP: 66:TIMP:76]
03053 [LOGS: 2 :CNM: 100.0]
03054 [Previous area: IAPex: 4.67:SLFFP:2.00:LGW: 40.IMPW:250:SCPW: .0]
03055 [Imperious area: IAlmpe: 1.57:SLPI: .50:LI2: 203.IMPW:013:SCIP: .0]
03056 [IARClmpe: 1.50: IARSCPE: 6.00]
03057 [SMN: 1.39: SMAX: 9.24: SE: .000]
03058 ROUT97C0023-----DRAIN-DI-NHYD-----AREHA-GFEARCS-TpeaDate_hh:mm-----RvM-R-C-----DWFCMS
03059 CONTINUOUS STANDBYD 5.0 01:1M6 6.20 .468 1979.0616:14:00 626.86 1723 .000
03060 [XIMP: 71:TIMP:81]

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03241 + 5.0 021M-LID-out 7.51 .253 1980.0830_14:00 313.16 n/a .000
03242 + 5.0 021M-LID-out 4.60 .198 1980.0830_14:00 300.26 n/a .000
03243 + 5.0 021M-LID-out 5.79 .222 1980.0830_14:00 360.91 n/a .000
03244 SLM = 5.0 011M-LID-out 36.12 .125 1980.0830_14:00 314.48 n/a .000
03245 # Barhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS
03246 # Set infiltration to 0 (CN = 99.99) for water balance analysis
03247 #####
03248 RO8181C00014 -DtmIn:ID-NHVD-----AREAH-QFEARCS-TpeakDate_hhm-----Rvm-R-C-----DWFCMS
CONTINUOUS STANDBY 5.0 011NF-W1 5.76 .181 1980.0830_14:00 374.57 602 .000
03249 [XMP=50:71MP=6]
03250 [LOGS 2 :CN=100.0]
03251 [Previous area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03252 [Impervious area: IAlp= 1.57:SLP= .50:G1= 196.4M1=.013:G2= .0]
03253 [IARClmp= 1.50: IAREC= 6.00]
03254 [SMN= 1.39: SMAX= 9.24: SK= .000]
03255 RO8181C00015 -DtmIn:ID-NHVD-----AREAH-QFEARCS-TpeakDate_hhm-----Rvm-R-C-----DWFCMS
CONTINUOUS STANDBY 5.0 011NF-W2 8.51 .251 1980.0830_14:00 358.25 576 .000
03256 [XMP=50:71MP=6]
03257 [LOGS 2 :CN=100.0]
03258 [Previous area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03259 [Impervious area: IAlp= 1.57:SLP= .50:G1= 238.4M1=.013:G2= .0]
03260 [IARClmp= 1.50: IAREC= 6.00]
03261 [SMN= 1.39: SMAX= 9.24: SK= .000]
03262 RO8181C00016 -DtmIn:ID-NHVD-----AREAH-QFEARCS-TpeakDate_hhm-----Rvm-R-C-----DWFCMS
CONTINUOUS STANDBY 5.0 011NF-W3 10.03 .339 1980.0830_14:00 402.93 648 .000
03263 [XMP=66:71MP=7]
03264 [LOGS 2 :CN=100.0]
03265 [Previous area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03266 [Impervious area: IAlp= 1.57:SLP= .50:G1= 259.4M1=.013:G2= .0]
03267 [IARClmp= 1.50: IAREC= 6.00]
03268 [SMN= 1.39: SMAX= 9.24: SK= .000]
03269 RO8181C00017 -DtmIn:ID-NHVD-----AREAH-QFEARCS-TpeakDate_hhm-----Rvm-R-C-----DWFCMS
CONTINUOUS STANDBY 5.0 011NF-W4 10.11 .362 1980.0830_14:00 385.59 624 .000
03270 [XMP=60:71MP=7]
03271 [LOGS 2 :CN=100.0]
03272 [Previous area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03273 [Impervious area: IAlp= 1.57:SLP= .50:G1= 259.4M1=.013:G2= .0]
03274 [IARClmp= 1.50: IAREC= 6.00]
03275 [SMN= 1.39: SMAX= 9.24: SK= .000]
03276 RO8181C00018 -DtmIn:ID-NHVD-----AREAH-QFEARCS-TpeakDate_hhm-----Rvm-R-C-----DWFCMS
CONTINUOUS STANDBY 5.0 011NF-W5 7.81 .277 1980.0830_14:00 417.08 671 .000
03277 [XMP=50:71MP=6]
03278 [LOGS 2 :CN=100.0]
03279 [Previous area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03280 [Impervious area: IAlp= 1.57:SLP= .50:G1= 260.4M1=.013:G2= .0]
03281 [IARClmp= 1.50: IAREC= 6.00]
03282 [SMN= 1.39: SMAX= 9.24: SK= .000]
03283 RO8181C00019 -DtmIn:ID-NHVD-----AREAH-QFEARCS-TpeakDate_hhm-----Rvm-R-C-----DWFCMS
CONTINUOUS STANDBY 5.0 011NF-W6 6.20 .197 1980.0830_14:00 379.63 607 .000
03284 [XMP=50:71MP=6]
03285 [LOGS 2 :CN=100.0]
03286 [Previous area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03287 [Impervious area: IAlp= 1.57:SLP= .50:G1= 203.4M1=.013:G2= .0]
03288 [IARClmp= 1.50: IAREC= 6.00]
03289 [SMN= 1.39: SMAX= 9.24: SK= .000]
03290 RO8181C00020 -DtmIn:ID-NHVD-----AREAH-QFEARCS-TpeakDate_hhm-----Rvm-R-C-----DWFCMS
CONTINUOUS STANDBY 5.0 011NF-W7 7.81 .277 1980.0830_14:00 417.08 671 .000
03291 [XMP=50:71MP=6]
03292 [LOGS 2 :CN=100.0]
03293 [Previous area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03294 [Impervious area: IAlp= 1.57:SLP= .50:G1= 260.4M1=.013:G2= .0]
03295 [IARClmp= 1.50: IAREC= 6.00]
03296 [SMN= 1.39: SMAX= 9.24: SK= .000]
03297 #####
03298 RO8181C00021 -DtmIn:ID-NHVD-----AREAH-QFEARCS-TpeakDate_hhm-----Rvm-R-C-----DWFCMS
ADD HYD + 5.0 021NF-W8 5.76 .181 1980.0830_14:00 374.57 n/a .000
03299 [XMP=50:71MP=6]
03300 [LOGS 2 :CN=100.0]
03301 + 5.0 021NF-W9 10.03 .339 1980.0830_14:00 402.93 n/a .000
03302 [Impervious area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03303 + 5.0 021NF-W10 10.11 .362 1980.0830_14:00 385.59 n/a .000
03304 [Impervious area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03305 + 5.0 021NF-W11 6.20 .197 1980.0830_14:00 379.63 n/a .000
03306 [Impervious area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03307 + 5.0 021NF-W12 7.81 .277 1980.0830_14:00 417.08 n/a .000
03308 [Impervious area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03309 ** END OF RUN : 80
03310 #####
03311 #####
03312 #####
03313 #####
03314 #####
03315 #####
03316 #####
03317 #####
03318 #####
03319 #####
03320 #####
03321 [METOUT= .00 hrs on 19821011]
03322 [METOUT= 2 (Imperial, 2-metric output)]
03323 [INFORM= 0]
03324 [NRUN = 0081]
03325 #####
03326 #####
03327 #####
03328 # Project Number: 1474
03329 # Date : 2021/Oct/18
03330 # Modeler : J.F. Sabourin, P.Eng.
03331 # Updated : 2024/Mar/14 [P]
03332 # Company : J.F. Sabourin & Associates
03333 # License # : 2382634
03334 # Octave International Airport (1967 - 2003)
03335 RO8181C00022 -DtmIn:ID-NHVD-----AREAH-QFEARCS-TpeakDate_hhm-----Rvm-R-C-----DWFCMS
CONTINUOUS STANDBY 5.0 011NF-W8 8.51 .276 1980.0830_14:00 382.16 622 .000
03336 [XMP=50:71MP=6]
03337 [LOGS 2 :CN=100.0]
03338 [Previous area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03339 [Impervious area: IAlp= 1.57:SLP= .50:G1= 238.4M1=.013:G2= .0]
03340 [IARClmp= 1.50: IAREC= 6.00]
03341 [SMN= 1.39: SMAX= 9.24: SK= .000]
03342 RO8181C00023 -DtmIn:ID-NHVD-----AREAH-QFEARCS-TpeakDate_hhm-----Rvm-R-C-----DWFCMS
CONTINUOUS STANDBY 5.0 011NF-W9 10.03 .339 1980.0830_14:00 402.93 648 .000
03343 [XMP=66:71MP=7]
03344 [LOGS 2 :CN=100.0]
03345 [Previous area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03346 [Impervious area: IAlp= 1.57:SLP= .50:G1= 259.4M1=.013:G2= .0]
03347 [IARClmp= 1.50: IAREC= 6.00]
03348 [SMN= 1.39: SMAX= 9.24: SK= .000]
03349 RO8181C00024 -DtmIn:ID-NHVD-----AREAH-QFEARCS-TpeakDate_hhm-----Rvm-R-C-----DWFCMS
CONTINUOUS STANDBY 5.0 011NF-W6 6.20 .197 1980.0830_14:00 379.63 607 .000
03350 [XMP=50:71MP=6]
03351 [LOGS 2 :CN=100.0]
03352 [Previous area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03353 [Impervious area: IAlp= 1.57:SLP= .50:G1= 203.4M1=.013:G2= .0]
03354 [IARClmp= 1.50: IAREC= 6.00]
03355 [SMN= 1.39: SMAX= 9.24: SK= .000]
03356 #####
03357 #####
03358 #####
03359 # Project Name: Barhaven Conservancy Development
03360 # Project Number: 1474
03361 # Date : 2021/Oct/18
03362 # Modeler : J.F. Sabourin, P.Eng.
03363 # Updated : 2024/Mar/14 [P]
03364 # Company : J.F. Sabourin & Associates
03365 # License # : 2382634
03366 # Octave International Airport (1967 - 2003)
03367 RO8181C00025 -DtmIn:ID-NHVD-----AREAH-QFEARCS-TpeakDate_hhm-----Rvm-R-C-----DWFCMS
CONTINUOUS STANDBY 5.0 011NF-W1 5.76 .181 1980.0830_14:00 374.57 602 .000
03368 [XMP=50:71MP=6]
03369 [LOGS 2 :CN=100.0]
03370 [Previous area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03371 [Impervious area: IAlp= 1.57:SLP= .50:G1= 196.4M1=.013:G2= .0]
03372 [IARClmp= 1.50: IAREC= 6.00]
03373 [SMN= 1.39: SMAX= 9.24: SK= .000]
03374 RO8181C00026 -DtmIn:ID-NHVD-----AREAH-QFEARCS-TpeakDate_hhm-----Rvm-R-C-----DWFCMS
CONTINUOUS STANDBY 5.0 011NF-W2 8.51 .251 1980.0830_14:00 358.25 576 .000
03375 [XMP=50:71MP=6]
03376 [LOGS 2 :CN=100.0]
03377 [Previous area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03378 [Impervious area: IAlp= 1.57:SLP= .50:G1= 238.4M1=.013:G2= .0]
03379 [IARClmp= 1.50: IAREC= 6.00]
03380 [SMN= 1.39: SMAX= 9.24: SK= .000]
03381 RO8181C00027 -DtmIn:ID-NHVD-----AREAH-QFEARCS-TpeakDate_hhm-----Rvm-R-C-----DWFCMS
CONTINUOUS STANDBY 5.0 011NF-W3 10.03 .339 1980.0830_14:00 402.93 648 .000
03382 [XMP=66:71MP=7]
03383 [LOGS 2 :CN=100.0]
03384 [Previous area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03385 [Impervious area: IAlp= 1.57:SLP= .50:G1= 259.4M1=.013:G2= .0]
03386 [IARClmp= 1.50: IAREC= 6.00]
03387 [SMN= 1.39: SMAX= 9.24: SK= .000]
03388 # Lid for Outlet W2 (19 catchbasin, 30 m long trench each)
03389 # Assumed 80 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
03390 # Total Volume provided by lid = 193 m^3
03391 # Soil infiltration rates assumed at 5mm/hr with a safety factor of 2.5
03392 #####
03393 RO8181C00028 -DtmIn:ID-NHVD-----AREAH-QFEARCS-TpeakDate_hhm-----Rvm-R-C-----DWFCMS
CONTINUOUS STANDBY 5.0 011NF-W4 10.11 .362 1980.0830_14:00 385.59 624 .000
03394 [XMP=60:71MP=7]
03395 [LOGS 2 :CN=100.0]
03396 [Previous area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03397 [Impervious area: IAlp= 1.57:SLP= .50:G1= 259.4M1=.013:G2= .0]
03398 [IARClmp= 1.50: IAREC= 6.00]
03399 [SMN= 1.39: SMAX= 9.24: SK= .000]
03400 # Lid for Outlet W3 (27 catchbasin, 30 m long trench each)
03401 # Assumed 80 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
03402 # Total Volume provided by lid = 146 m^3
03403 #####
03404 RO8181C00029 -DtmIn:ID-NHVD-----AREAH-QFEARCS-TpeakDate_hhm-----Rvm-R-C-----DWFCMS
CONTINUOUS STANDBY 5.0 011NF-W5 7.81 .277 1980.0830_14:00 417.08 671 .000
03405 [XMP=50:71MP=6]
03406 [LOGS 2 :CN=100.0]
03407 [Previous area: IArea= 4.67:SLP=2.00:LG= 40.4MP=250:SCP= .0]
03408 [Impervious area: IAlp= 1.57:SLP= .50:G1= 260.4M1=.013:G2= .0]
03409 [IARClmp= 1.50: IAREC= 6.00]
03410 [SMN= 1.39: SMAX= 9.24: SK= .000]
03411 # Lid for Outlet W4 (27 catchbasin, 30 m long trench each)
03412 # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
03413 # Total Volume provided by lid = 146 m^3

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03961 [SMIN: 1.39; SMAX: 9.24; SK: 000]-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
03962 R0884C00019-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
03963 CONTINUOUS STANDBY 5.0 01:INF-W3 10.03 .268 1983.1005.15.00 366.59 624 .000
03964 [XMP: 66:TIMP=76]
03965 [LOGS: 2 :CN:100.0]
03966 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MP=250:SCP= .0]
03967 [Impervious area: IArea: 1.57:SLFP= .50:LG= 259.0MM= .013:SCI= .0]
03968 [IARECLIP: 1.50; IARECPR: 6.00]
03969 [SMIN: 1.39; SMAX: 9.24; SK: 000]
03970 R0884C00019-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
03971 CONTINUOUS STANDBY 5.0 01:INF-W4 10.11 .268 1983.1005.15.00 350.25 596 .000
03972 [XMP: 60:TIMP=70]
03973 [LOGS: 2 :CN:100.0]
03974 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MP=250:SCP= .0]
03975 [Impervious area: IArea: 1.57:SLFP= .50:LG= 260.0MM= .013:SCI= .0]
03976 [IARECLIP: 1.50; IARECPR: 6.00]
03977 [SMIN: 1.39; SMAX: 9.24; SK: 000]
03978 R0884C00022-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
03979 CONTINUOUS STANDBY 5.0 01:INF-W5 6.20 .164 1983.1005.15.00 342.14 582 .000
03980 [XMP: 57:TIMP=47]
03981 [LOGS: 2 :CN:100.0]
03982 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MP=250:SCP= .0]
03983 [Impervious area: IArea: 1.57:SLFP= .50:LG= 203.0MM= .013:SCI= .0]
03984 [IARECLIP: 1.50; IARECPR: 6.00]
03985 [SMIN: 1.39; SMAX: 9.24; SK: 000]
03986 R0884C00023-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
03987 CONTINUOUS STANDBY 5.0 01:INF-W6 7.81 .211 1983.1005.15.00 380.42 648 .000
03988 [XMP: 71:TIMP=81]
03989 [LOGS: 2 :CN:100.0]
03990 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MP=250:SCP= .0]
03991 [Impervious area: IArea: 1.57:SLFP= .50:LG= 228.0MM= .013:SCI= .0]
03992 [IARECLIP: 1.50; IARECPR: 6.00]
03993 [SMIN: 1.39; SMAX: 9.24; SK: 000]
03994 R0884C00024-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
03995 ADD HYD 5.76 .153 1983.1005.15.00 339.17 n/a .000
03996 + 5.0 02:INF-W2 8.51 .222 1983.1005.15.00 323.35 n/a .000
03997 + 5.0 02:INF-W3 10.03 .268 1983.1005.15.00 366.59 n/a .000
03998 + 5.0 02:INF-W4 10.11 .268 1983.1005.15.00 350.25 n/a .000
03999 + 5.0 02:INF-W5 6.20 .164 1983.1005.15.00 342.14 n/a .000
04000 + 5.0 02:INF-W6 7.81 .211 1983.1005.15.00 380.42 n/a .000
04001 SUM 5.0 01:INF-BD-PH 48.42 1.286 1983.1005.15.00 351.42 n/a .000
04002 *****
04003 # CONTINUOUS RAINFALL DATA
04004 *****
04005 ** END OF RUN # 83
04006 *****
04007 *****
04008 *****
04009 *****
04010 *****
04011 *****
04012 *****
04013 RUN:COMMAND#
04014 R0884C00019-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04015 [XMP: 66:TIMP=76]
04016 [LOGS: 2 :CN:100.0]
04017 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MP=250:SCP= .0]
04018 [Impervious area: IArea: 1.57:SLFP= .50:LG= 259.0MM= .013:SCI= .0]
04019 [IARECLIP: 1.50; IARECPR: 6.00]
04020 [SMIN: 1.39; SMAX: 9.24; SK: 000]
04021 *****
04022 *****
04023 *****
04024 *****
04025 *****
04026 *****
04027 *****
04028 *****
04029 *****
04030 *****
04031 # Ottawa International Airport (1967 - 2003)
04032 R0884C00022-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04033 READ AES DATA
04034 [Filename: YOM_1967_2003_123 ]
04035 [Start Date: 1967-01-01; End Date: 1984-12-31]
04036 [DT= 60,min; Length: 8760,hrs; WetHrs: 308; DryHrs: 8452; PTO= 459.40]
04037 Maximum average rainfall intensities over
04038 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
04039 17.80 9.70 7.57 4.73 3.01 1.85 1.58 1.19 1.00 mm/hr
04040 11.80 19.40 22.70 26.00 36.10 44.30 57.00 57.00 72.20 mm
04041 1984012 1984012 1984012 1984012 1984012 1984012 1984012 1984012 1984012
04042 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
04043 9 80 75 63 40 34 26
04044 Number of events with at least the following durations
04045 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
04046 97 58 39 11 3 1 0
04047 R0884C00023-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04048 R0884C00023-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04049 COMPUTE API
04050 [APIInx: 50.00; APIQty: 9000; APIKts: 9956]
04051 [APIKts: 86.83; APIQty: 13.22; APIInx: .20]
04052 *****
04053 *****
04054 *****
04055 *****
04056 *****
04057 *****
04058 *****
04059 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MP=250:SCP= .0]
04060 [Impervious area: IArea: 1.57:SLFP= .50:LG= 196.0MM= .013:SCI= .0]
04061 [IARECLIP: 1.50; IARECPR: 6.00]
04062 [SMIN: 1.39; SMAX: 9.24; SK: 000]
04063 # LID for Outlet W1 (14 catchbasins, 30 m long trench each)
04064 # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04065 # Total Volume provided by LID = 186 m^3
04066 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04067 R0884C00019-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04068 ROUTE RESERVOIR -> 5.0 02:INF-W2 5.76 .154 1984.0812.7:00 224.78 n/a .000
04069 out <= 5.0 01:INF-LID 1.28 .001 1984.0214.9:00 224.79 n/a .000
04070 overflow <= 5.0 02:INF-W3 10.03 .268 1984.0812.7:00 224.78 n/a .000
04071 [MxStoUse= .9596E-02 m3, TotDvVol= .1008E+01 m3, N-Ovrs= 89, TotDvUrV= 144,hrs]
04072 R0884C00019-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04073 CONTINUOUS STANDBY 5.0 01:INF-W3 8.51 .251 1984.0812.7:00 208.10 453 .000
04074 [XMP: 50:TIMP=40]
04075 [LOGS: 2 :CN:71.0]
04076 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MP=250:SCP= .0]
04077 [Impervious area: IArea: 1.57:SLFP= .50:LG= 238.0MM= .013:SCI= .0]
04078 [IARECLIP: 1.50; IARECPR: 6.00]
04079 [SMIN: 41.38; SMAX: 275.84; SK: 030]
04080 # LID for Outlet W2 (19 catchbasins, 30 m long trench each)
04081 # Assumed 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04082 # Total Volume provided by LID = 110 m^3
04083 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04084 R0884C00019-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04085 ROUTE RESERVOIR -> 5.0 02:INF-W2 8.51 .251 1984.0812.7:00 208.10 n/a .000
04086 out <= 5.0 01:INF-LID 1.89 .001 1984.0214.9:10 208.10 n/a .000
04087 overflow <= 5.0 02:INF-W3 10.03 .268 1984.0812.7:00 208.10 n/a .000
04088 [MxStoUse= .1310E-01 m3, TotDvVol= .1377E+01 m3, N-Ovrs= 99, TotDvUrV= 144,hrs]
04089 R0884C00019-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04090 CONTINUOUS STANDBY 5.0 01:INF-W4 10.03 .268 1984.0812.7:00 258.62 563 .000
04091 [XMP: 66:TIMP=76]
04092 [LOGS: 2 :CN:71.0]
04093 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MP=250:SCP= .0]
04094 [Impervious area: IArea: 1.57:SLFP= .50:LG= 259.0MM= .013:SCI= .0]
04095 [IARECLIP: 1.50; IARECPR: 6.00]
04096 [SMIN: 41.38; SMAX: 275.84; SK: 030]
04097 # LID for Outlet W3 (28 catchbasins, 30 m long trench each)
04098 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04099 # Total Volume provided by LID = 193 m^3
04100 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04101 R0884C00019-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04102 ROUTE RESERVOIR -> 5.0 02:INF-W2 10.03 .268 1984.0812.7:00 258.62 n/a .000
04103 out <= 5.0 01:INF-LID 2.30 .001 1984.0214.9:10 258.62 n/a .000
04104 overflow <= 5.0 03:INF-LID 0.73 .058 1984.0812.7:00 258.62 n/a .000
04105 [MxStoUse= .1939E-01 m3, TotDvVol= .2000E+01 m3, N-Ovrs= 88, TotDvUrV= 142,hrs]
04106 R0884C00019-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04107 CONTINUOUS STANDBY 5.0 01:INF-W4 10.11 .268 1984.0812.7:00 239.62 522 .000
04108 [XMP: 60:TIMP=70]
04109 [LOGS: 2 :CN:71.0]
04110 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MP=250:SCP= .0]
04111 [Impervious area: IArea: 1.57:SLFP= .50:LG= 260.0MM= .013:SCI= .0]
04112 [IARECLIP: 1.50; IARECPR: 6.00]
04113 [SMIN: 41.38; SMAX: 275.84; SK: 030]
04114 # LID for Outlet W4 (27 catchbasins, 30 m long trench each)
04115 # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04116 # Total Volume provided by LID = 186 m^3
04117 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04118 R0884C00019-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04119 ROUTE RESERVOIR -> 5.0 02:INF-W2 6.20 .202 1984.0812.7:00 230.18 n/a .000
04120 out <= 5.0 01:INF-LID 1.44 .001 1984.0214.9:10 230.17 n/a .000
04121 overflow <= 5.0 03:INF-LID 0.76 .058 1984.0812.7:00 230.18 n/a .000
04122 [MxStoUse= .1099E-01 m3, TotDvVol= .1096E+01 m3, N-Ovrs= 91, TotDvUrV= 140,hrs]
04123 R0884C00019-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04124 CONTINUOUS STANDBY 5.0 01:INF-W5 6.20 .202 1984.0812.7:00 230.18 501 .000
04125 [XMP: 57:TIMP=47]
04126 [LOGS: 2 :CN:71.0]
04127 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MP=250:SCP= .0]
04128 [Impervious area: IArea: 1.57:SLFP= .50:LG= 203.0MM= .013:SCI= .0]
04129 [IARECLIP: 1.50; IARECPR: 6.00]
04130 [SMIN: 41.38; SMAX: 275.84; SK: 030]
04131 # LID for Outlet W5 (16 catchbasins, 30 m long trench each)
04132 # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04133 # Total Volume provided by LID = 110 m^3
04134 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04135 R0884C00019-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04136 ROUTE RESERVOIR -> 5.0 02:INF-W2 6.20 .202 1984.0812.7:00 230.18 n/a .000
04137 out <= 5.0 01:INF-LID 1.44 .001 1984.0214.9:10 230.17 n/a .000
04138 overflow <= 5.0 03:INF-LID 0.76 .058 1984.0812.7:00 230.18 n/a .000
04139 [MxStoUse= .1099E-01 m3, TotDvVol= .1096E+01 m3, N-Ovrs= 91, TotDvUrV= 140,hrs]
04140 R0884C00019-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04141 CONTINUOUS STANDBY 5.0 01:INF-W6 7.81 .211 1984.0812.7:00 274.64 598 .000
04142 [XMP: 71:TIMP=81]
04143 [LOGS: 2 :CN:71.0]
04144 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MP=250:SCP= .0]
04145 [Impervious area: IArea: 1.57:SLFP= .50:LG= 228.0MM= .013:SCI= .0]
04146 [IARECLIP: 1.50; IARECPR: 6.00]
04147 [SMIN: 41.38; SMAX: 275.84; SK: 030]
04148 # LID for Outlet W6 (24 catchbasins, 30 m long trench each)
04149 # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04150 # Total Volume provided by LID = 163 m^3
04151 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04152 R0884C00019-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04153 ROUTE RESERVOIR -> 5.0 02:INF-W2 5.76 .154 1984.0812.7:00 224.78 n/a .000
04154 out <= 5.0 01:INF-LID 1.82 .001 1984.0214.9:00 224.79 n/a .000
04155 overflow <= 5.0 02:INF-W3 10.03 .268 1984.0812.7:00 224.78 n/a .000
04156 [MxStoUse= .1650E-01 m3, TotDvVol= .1648E+01 m3, N-Ovrs= 86, TotDvUrV= 140,hrs]
04157 R0884C00019-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04158 ADD HYD 5.76 .154 1984.0812.7:00 224.78 n/a .000
04159 + 5.0 02:INF-W2 8.51 .251 1984.0812.7:00 208.10 n/a .000
04160 + 5.0 02:INF-W3 10.03 .268 1984.0812.7:00 230.18 n/a .000
04161 + 5.0 02:INF-W4 10.11 .268 1984.0812.7:00 239.62 n/a .000
04162 + 5.0 02:INF-W5 6.20 .202 1984.0812.7:00 230.18 n/a .000
04163 + 5.0 02:INF-W6 7.81 .211 1984.0812.7:00 274.64 n/a .000
04164 SUM 5.0 01:INF-BD-PH 48.42 1.286 1983.1005.15.00 351.42 n/a .000
04165 R0884C00019-----Dtain-ID:INVD-----AREHA-QFAKns-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04166 ADD HYD 5.76 .154 1984.0812.7:00 224.78 n/a .000
04167 + 5.0 02:INF-W2 8.51 .251 1984.0812.7:00 208.10 n/a .000
04168 + 5.0 02:INF-W3 10.03 .268 1984.0812.7:00 230.18 n/a .000
04169 + 5.0 02:INF-W4 10.11 .268 1984.0812.7:00 239.62 n/a .000
04170 + 5.0 02:INF-W5 6.20 .202 1984.0812.7:00 230.18 n/a .000
04171 + 5.0 02:INF-W6 7.81 .211 1984.0812.7:00 274.64 n/a .000
04172 SUM 5.0 01:INF-BD-PH 48.42 1.286 1983.1005.15.00 351.42 n/a .000
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042311 R0885C00008-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042312 CONTINUOUS STANDBYD 5.0 0.11NF 10.03 .363 1985.0716.14:00 318.25 3.669 .000
042313 [XIMP=66;TIMP=76]
042324 [LOGS=2 ;CNM=71.0]
042325 [Previous area: IArea= 4.67;SIFP=2.00;LGF= 40.0MNP=250;SICP= .0]
042326 [Impervious area: IAlmp= 1.57;SIFP= .50;LGI= 258.0MNI=.013;SIC= .0]
042327 [IARECLMP= 1.50; IARECSPE= 6.00]
042328 [SMNI= 41.38; SMAK=275.84; SK= .030]
042329 # LID for Outlet W3 (28 catchbasin, 30 m long trench each)
042330 # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
042331 # Total Volume provided by LID = 193 m3
042332 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
042333 R0885C00009-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042334 ROUTE RESERVOIR -> 5.0 0.02NF 10.03 .363 1985.0716.14:00 318.25 n/a .000
042335 out <= 5.0 0.01NF-LID 2.33 .001 1985.0222.12:30 293.85 n/a .000
042336 overflow <= 5.0 0.03NF-LID-Out 7.78 .359 1985.0716.14:00 318.25 n/a .000
042337 [MdtOfUsed=1190E-01 m3, TotOfVol=2470E+01 m3, N-OfV= 59, TotOfDurV= 144 hrs]
042338 R0885C00010-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042339 CONTINUOUS STANDBYD 5.0 0.11NF 10.11 .336 1985.0716.14:00 293.85 3.525 .000
042340 [XIMP=60;TIMP=70]
042341 [LOGS=2 ;CNM=71.0]
042342 [Previous area: IArea= 4.67;SIFP=2.00;LGF= 40.0MNP=250;SICP= .0]
042343 [Impervious area: IAlmp= 1.57;SIFP= .50;LGI= 260.0MNI=.013;SIC= .0]
042344 [IARECLMP= 1.50; IARECSPE= 6.00]
042345 [SMNI= 41.38; SMAK=275.84; SK= .030]
042346 # LID for Outlet W4 (27 catchbasin, 30 m long trench each)
042347 # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
042348 # Total Volume provided by LID = 186 m3
042349 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
042350 R0885C00011-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042351 ROUTE RESERVOIR -> 5.0 0.02NF 10.11 .336 1985.0716.14:00 293.85 n/a .000
042352 out <= 5.0 0.01NF-LID 2.33 .001 1985.0222.12:30 293.85 n/a .000
042353 overflow <= 5.0 0.03NF-LID-Out 7.78 .359 1985.0716.14:00 293.85 n/a .000
042354 [MdtOfUsed=1160E-01 m3, TotOfVol=2287E+01 m3, N-OfV= 74, TotOfDurV= 148 hrs]
042355 R0885C00012-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042356 CONTINUOUS STANDBYD 5.0 0.11NF 6.20 .198 1985.0716.14:00 281.65 3.503 .000
042357 [XIMP=67;TIMP=67]
042358 [LOGS=2 ;CNM=71.0]
042359 [Previous area: IArea= 4.67;SIFP=2.00;LGF= 40.0MNP=250;SICP= .0]
042360 [Impervious area: IAlmp= 1.57;SIFP= .50;LGI= 203.0MNI=.013;SIC= .0]
042361 [IARECLMP= 1.50; IARECSPE= 6.00]
042362 [SMNI= 41.38; SMAK=275.84; SK= .030]
042363 # LID for Outlet W5 (16 catchbasin, 30 m long trench each)
042364 # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
042365 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
042366 R0885C00013-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042367 ROUTE RESERVOIR -> 5.0 0.02NF 10.11 .336 1985.0716.14:00 281.65 n/a .000
042368 out <= 5.0 0.01NF-LID 1.43 .001 1985.0222.12:30 281.65 n/a .000
042369 overflow <= 5.0 0.03NF-LID-Out 4.77 .195 1985.0716.14:00 281.65 n/a .000
042370 [MdtOfUsed=1100E-01 m3, TotOfVol=1143E+01 m3, N-OfV= 85, TotOfDurV= 147 hrs]
042371 R0885C00014-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042372 CONTINUOUS STANDBYD 5.0 0.11NF 7.81 .306 1985.0716.14:00 338.94 4.605 .000
042373 [XIMP=71;TIMP=81]
042374 [LOGS=2 ;CNM=71.0]
042375 [Previous area: IArea= 4.67;SIFP=2.00;LGF= 40.0MNP=250;SICP= .0]
042376 [Impervious area: IAlmp= 1.57;SIFP= .50;LGI= 228.0MNI=.013;SIC= .0]
042377 [IARECLMP= 1.50; IARECSPE= 6.00]
042378 [SMNI= 41.38; SMAK=275.84; SK= .030]
042379 # LID for Outlet W6 (24 catchbasin, 30 m long trench each)
042380 # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
042381 # Total Volume provided by LID = 186 m3
042382 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
042383 R0885C00015-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042384 ROUTE RESERVOIR -> 5.0 0.02NF 10.11 .336 1985.0716.14:00 274.48 n/a .000
042385 out <= 5.0 0.01NF-LID 1.80 .001 1985.0222.12:30 338.94 n/a .000
042386 overflow <= 5.0 0.03NF-LID-Out 6.01 .102 1985.0716.14:00 338.94 n/a .000
042387 [MdtOfUsed=1649E-01 m3, TotOfVol=2038E+01 m3, N-OfV= 82, TotOfDurV= 145 hrs]
042388 R0885C00016-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042389 ADD HYD + 5.0 0.02NF 8.51 .240 1985.0716.14:00 253.27 n/a .000
042390 + 5.0 0.02NF 10.03 .363 1985.0716.14:00 338.94 n/a .000
042391 + 5.0 0.02NF 10.11 .336 1985.0716.14:00 293.85 n/a .000
042392 + 5.0 0.02NF 6.20 .198 1985.0716.14:00 281.65 n/a .000
042393 + 5.0 0.02NF 10.11 .336 1985.0716.14:00 338.94 n/a .000
042394 + 5.0 0.02NF 6.20 .198 1985.0716.14:00 281.65 n/a .000
042395 + 5.0 0.02NF 8.51 .240 1985.0716.14:00 253.27 n/a .000
042396 + 5.0 0.02NF 10.11 .336 1985.0716.14:00 338.94 n/a .000
042397 + 5.0 0.01NF-LID-Out 4.49 .276 1985.0716.14:00 274.48 n/a .000
042398 + 5.0 0.02NF-LID-Out 6.51 .237 1985.0716.14:00 253.27 n/a .000
042399 + 5.0 0.02NF-LID-Out 7.78 .337 1985.0716.14:00 293.85 n/a .000
042400 + 5.0 0.02NF-LID-Out 7.78 .337 1985.0716.14:00 293.85 n/a .000
042401 + 5.0 0.02NF-LID-Out 7.78 .337 1985.0716.14:00 293.85 n/a .000
042402 + 5.0 0.02NF-LID-Out 7.78 .337 1985.0716.14:00 293.85 n/a .000
042403 + 5.0 0.02NF-LID-Out 6.01 .302 1985.0716.14:00 338.94 n/a .000
042404 + 5.0 0.02NF-LID-Out 6.01 .302 1985.0716.14:00 338.94 n/a .000
042405 + 5.0 0.01NF-LID-Out 37.42 .161 1985.0716.14:00 293.33 n/a .000
042406 *****
042407 *****
042408 # Set infiltration to 0 (CN = 99.99) for water balance analysis
042409 *****
042410 R0885C00018-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042411 CONTINUOUS STANDBYD 5.0 0.11NF-MI 5.76 .254 1985.0716.14:00 361.80 4.646 .000
042412 [XIMP=66;TIMP=66]
042413 [LOGS=2 ;CNM=100.0]
042414 [Previous area: IArea= 4.67;SIFP=2.00;LGF= 40.0MNP=250;SICP= .0]
042415 [Impervious area: IAlmp= 1.57;SIFP= .50;LGI= 196.0MNI=.013;SIC= .0]
042416 [IARECLMP= 1.50; IARECSPE= 6.00]
042417 [SMNI= 41.38; SMAK=275.84; SK= .030]
042418 R0885C00019-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042419 CONTINUOUS STANDBYD 5.0 0.11NF-MI 8.51 .350 1985.0716.14:00 347.74 6.211 .000
042420 [XIMP=60;TIMP=60]
042421 [LOGS=2 ;CNM=100.0]
042422 [Previous area: IArea= 4.67;SIFP=2.00;LGF= 40.0MNP=250;SICP= .0]
042423 [Impervious area: IAlmp= 1.57;SIFP= .50;LGI= 238.0MNI=.013;SIC= .0]
042424 [IARECLMP= 1.50; IARECSPE= 6.00]
042425 [SMNI= 1.39; SMAK= 9.24; SK= .000]
042426 R0885C00020-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042427 CONTINUOUS STANDBYD 5.0 0.11NF-MI 10.03 .456 1985.0716.14:00 386.27 6.890 .000
042428 [XIMP=66;TIMP=76]
042429 [LOGS=2 ;CNM=100.0]
042430 [Previous area: IArea= 4.67;SIFP=2.00;LGF= 40.0MNP=250;SICP= .0]
042431 [Impervious area: IAlmp= 1.57;SIFP= .50;LGI= 258.0MNI=.013;SIC= .0]
042432 [IARECLMP= 1.50; IARECSPE= 6.00]
042433 [SMNI= 1.39; SMAK= 9.24; SK= .000]
042434 R0885C00021-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042435 CONTINUOUS STANDBYD 5.0 0.11NF-MI 10.11 .442 1985.0716.14:00 371.72 6.664 .000
042436 [XIMP=60;TIMP=70]
042437 [LOGS=2 ;CNM=100.0]
042438 [Previous area: IArea= 4.67;SIFP=2.00;LGF= 40.0MNP=250;SICP= .0]
042439 [Impervious area: IAlmp= 1.57;SIFP= .50;LGI= 260.0MNI=.013;SIC= .0]
042440 [IARECLMP= 1.50; IARECSPE= 6.00]
042441 [SMNI= 1.39; SMAK= 9.24; SK= .000]
042442 R0885C00022-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042443 CONTINUOUS STANDBYD 5.0 0.11NF-MI 6.20 .274 1985.0716.14:00 364.50 4.651 .000
042444 [XIMP=57;TIMP=67]
042445 [LOGS=2 ;CNM=100.0]
042446 [Previous area: IArea= 4.67;SIFP=2.00;LGF= 40.0MNP=250;SICP= .0]
042447 [Impervious area: IAlmp= 1.57;SIFP= .50;LGI= 203.0MNI=.013;SIC= .0]
042448 [IARECLMP= 1.50; IARECSPE= 6.00]
042449 [SMNI= 1.39; SMAK= 9.24; SK= .000]
042450 R0885C00023-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042451 CONTINUOUS STANDBYD 5.0 0.11NF-MI 7.81 .372 1985.0716.14:00 398.36 7.112 .000
042452 [XIMP=67;TIMP=67]
042453 [LOGS=2 ;CNM=100.0]
042454 [Previous area: IArea= 4.67;SIFP=2.00;LGF= 40.0MNP=250;SICP= .0]
042455 [Impervious area: IAlmp= 1.57;SIFP= .50;LGI= 228.0MNI=.013;SIC= .0]
042456 [IARECLMP= 1.50; IARECSPE= 6.00]
042457 [SMNI= 1.39; SMAK= 9.24; SK= .000]
042458 R0885C00024-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042459 ADD HYD + 5.0 0.02NF-MI 5.76 .254 1985.0716.14:00 361.80 n/a .000
042460 + 5.0 0.02NF-MI 10.03 .456 1985.0716.14:00 386.27 n/a .000
042461 + 5.0 0.02NF-MI 10.11 .442 1985.0716.14:00 371.72 n/a .000
042462 + 5.0 0.02NF-MI 6.20 .274 1985.0716.14:00 364.50 n/a .000
042463 + 5.0 0.02NF-MI 7.81 .372 1985.0716.14:00 398.36 n/a .000
042464 + 5.0 0.02NF-MI 7.81 .372 1985.0716.14:00 398.36 n/a .000
042465 + 5.0 0.01NF-BCH-PH 48.42 2.148 1985.0716.14:00 372.74 n/a .000
042466 *****
042467 *****
042468 *****
042469 ** END OF RUN : 85
042470 *****
042471 *****
042472 *****
042473 *****
042474 *****
042475 *****
042476 *****
042477 R0885C00025-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042478 R0886C00001-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042479 START
042480 [TEND= 00 hrs on 19860101]
042481 [METOUT= 2 (1 imperial, 2 metric output)]
042482 [NETOUT= 0]
042483 [NSUN = 0086 ]
042484 *****
042485 # SWEHYD Ver:02/Jan 2001 <BETA> / INPUT DATA FILE
042486 *****
042487 *****
042488 # Project Name: Barharvo Conservancy Development
042489 # Date : 2021/02/10
042490 # Modeler : J.F. Campbell, P.Eng.
042491 # Updated : 2024/Mar/14 [P]
042492 # Company : J.F. Campbell Associates
042493 # License : 2382634
042494 *****
042495 # Ottawa International Airport (1967 - 2003)
042496 R0886C00002-----Dtain-ID:INHYD-----AREAA-QFEAKMS-TpeaDate_hh:mm-----Rvm-R.C-----DWFCMS
042497 # READ THIS DATA
042498 [FILENAME = YON_1967_2003_123]
042499 [Start_date= 1986.0101; End_date= 1986.1231]
042500 [DTE, d_min, Length= 8640 hrs; Metrics= 5201; DvYrs= 7520; PDT= 849.40]

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05041 [SMIN= 41.38; SMAX=275.84; SW= .030]
05042 # LID for Outlet W6 (67 catchbasins, 30 m long trench each)
05043 # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
05044 # Total Volume provided by LID = 186 m³
05045 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
05046 ROUTE RESEVOIR >> <-DRAIN-ID:INVD-----AREAA-QFEARCS-TpeakDate_hh:mm-----Rvw-R-C-----DWFCms
05047 [IMP= 5.011NF-W2] < 5.0 021NF-W2 10.11 .460 1989.0727.1300 314.93 n/a .000
05048 [IMP= 5.011NF-L1D] out < 5.0 011NF-L1D 2.77 .001 1989.0117.22150 314.93 n/a .000
05049 [IMP= 5.011NF-L1D] overlow < 5.0 031NF-L1D 7.34 .471 1989.0726.1300 314.93 n/a .000
05050 [IMP= 5.011NF-L1D] overlow < 5.0 021NF-L1D 4.62 .227 1989.0727.1500 215.57 n/a .000
05051 ROUTE RESEVOIR >> <-DRAIN-ID:INVD-----AREAA-QFEARCS-TpeakDate_hh:mm-----Rvw-R-C-----DWFCms
05052 [IMP= 5.011NF-W2] < 5.0 021NF-W2 10.11 .460 1989.0726.1300 302.40 .470 .000
05053 [IMP= 5.011NF-W1] < 5.0 021NF-W1 7.81 .426 1989.0726.1300 361.38 .561 .000
05054 [LGS= 2 C&M 71.0] [LGS= 2 C&M 71.0]
05055 [IMP= 5.011NF-W1] [IMP= 5.011NF-W1]
05056 [IMP= 5.011NF-W1] [IMP= 5.011NF-W1]
05057 [IMP= 5.011NF-W1] [IMP= 5.011NF-W1]
05058 [IMP= 5.011NF-W1] [IMP= 5.011NF-W1]
05059 # LID for Outlet W5 (16 catchbasins, 30 m long trench each)
05060 # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
05061 # Total Volume provided by LID = 110 m³
05062 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
05063 ROUTE RESEVOIR >> <-DRAIN-ID:INVD-----AREAA-QFEARCS-TpeakDate_hh:mm-----Rvw-R-C-----DWFCms
05064 [IMP= 5.011NF-W2] < 5.0 021NF-W2 10.11 .460 1989.0726.1300 302.40 n/a .000
05065 [IMP= 5.011NF-L1D] out < 5.0 011NF-L1D 2.77 .001 1989.0117.22150 302.40 n/a .000
05066 [IMP= 5.011NF-L1D] overlow < 5.0 031NF-L1D 4.50 .279 1989.0726.1300 302.40 n/a .000
05067 [IMP= 5.011NF-L1D] overlow < 5.0 021NF-L1D 4.20 .208 1989.0727.1500 215.57 n/a .000
05068 ROUTE RESEVOIR >> <-DRAIN-ID:INVD-----AREAA-QFEARCS-TpeakDate_hh:mm-----Rvw-R-C-----DWFCms
05069 [IMP= 5.011NF-W2] < 5.0 021NF-W2 10.11 .460 1989.0726.1300 361.38 .561 .000
05070 [IMP= 5.011NF-W1] < 5.0 021NF-W1 7.81 .426 1989.0726.1300 361.38 .561 .000
05071 [LGS= 2 C&M 71.0] [LGS= 2 C&M 71.0]
05072 [IMP= 5.011NF-W1] [IMP= 5.011NF-W1]
05073 [IMP= 5.011NF-W1] [IMP= 5.011NF-W1]
05074 [IMP= 5.011NF-W1] [IMP= 5.011NF-W1]
05075 [IMP= 5.011NF-W1] [IMP= 5.011NF-W1]
05076 # LID for Outlet W6 (24 catchbasins, 30 m long trench each)
05077 # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
05078 # Total Volume provided by LID = 165 m³
05079 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
05080 ROUTE RESEVOIR >> <-DRAIN-ID:INVD-----AREAA-QFEARCS-TpeakDate_hh:mm-----Rvw-R-C-----DWFCms
05081 [IMP= 5.011NF-W2] < 5.0 021NF-W2 10.11 .460 1989.0726.1300 361.38 n/a .000
05082 [IMP= 5.011NF-L1D] out < 5.0 011NF-L1D 2.77 .001 1989.0117.22150 361.38 n/a .000
05083 [IMP= 5.011NF-L1D] overlow < 5.0 031NF-L1D 5.66 .419 1989.0726.1300 361.38 n/a .000
05084 [IMP= 5.011NF-L1D] overlow < 5.0 021NF-L1D 4.50 .279 1989.0727.1500 215.57 n/a .000
05085 ROUTE RESEVOIR >> <-DRAIN-ID:INVD-----AREAA-QFEARCS-TpeakDate_hh:mm-----Rvw-R-C-----DWFCms
05086 [IMP= 5.011NF-W2] < 5.0 021NF-W2 10.11 .460 1989.0726.1300 361.38 n/a .000
05087 [IMP= 5.011NF-L1D] out < 5.0 011NF-L1D 2.77 .001 1989.0117.22150 361.38 n/a .000
05088 [IMP= 5.011NF-L1D] overlow < 5.0 031NF-L1D 5.66 .419 1989.0726.1300 361.38 n/a .000
05089 [IMP= 5.011NF-L1D] overlow < 5.0 021NF-L1D 4.50 .279 1989.0727.1500 215.57 n/a .000
05090 ROUTE RESEVOIR >> <-DRAIN-ID:INVD-----AREAA-QFEARCS-TpeakDate_hh:mm-----Rvw-R-C-----DWFCms
05091 [IMP= 5.011NF-W2] < 5.0 021NF-W2 10.11 .460 1989.0726.1300 361.38 n/a .000
05092 [IMP= 5.011NF-L1D] out < 5.0 011NF-L1D 2.77 .001 1989.0117.22150 361.38 n/a .000
05093 [IMP= 5.011NF-L1D] overlow < 5.0 031NF-L1D 5.66 .419 1989.0726.1300 361.38 n/a .000
05094 [IMP= 5.011NF-L1D] overlow < 5.0 021NF-L1D 4.50 .279 1989.0727.1500 215.57 n/a .000
05095 ROUTE RESEVOIR >> <-DRAIN-ID:INVD-----AREAA-QFEARCS-TpeakDate_hh:mm-----Rvw-R-C-----DWFCms
05096 [IMP= 5.011NF-W2] < 5.0 021NF-W2 10.11 .460 1989.0726.1300 361.38 n/a .000
05097 [IMP= 5.011NF-L1D] out < 5.0 011NF-L1D 2.77 .001 1989.0117.22150 361.38 n/a .000
05098 [IMP= 5.011NF-L1D] overlow < 5.0 031NF-L1D 5.66 .419 1989.0726.1300 361.38 n/a .000
05099 [IMP= 5.011NF-L1D] overlow < 5.0 021NF-L1D 4.50 .279 1989.0727.1500 215.57 n/a .000
05100 ROUTE RESEVOIR >> <-DRAIN-ID:INVD-----AREAA-QFEARCS-TpeakDate_hh:mm-----Rvw-R-C-----DWFCms
05101 [IMP= 5.011NF-W2] < 5.0 021NF-W2 10.11 .460 1989.0726.1300 361.38 n/a .000
05102 [IMP= 5.011NF-L1D] out < 5.0 011NF-L1D 2.77 .001 1989.0117.22150 361.38 n/a .000
05103 [IMP= 5.011NF-L1D] overlow < 5.0 031NF-L1D 5.66 .419 1989.0726.1300 361.38 n/a .000
05104 # Set infiltration to 0 (CN = 99.99) for water balance analysis
05105 # * * * * *
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05200 # * * * * *

057621 overflow <= 5.0 01W3-LID 1.95 .001 1991.0302.645 288.64 n/a .000
057622 # Soil infiltration rates assumed at mm/hr with a safety factor of 2.5
057623 (MSXStoed=1100E-01) m3, TotOVVol=1100E+01, N-Ofvs= 113, TotDurOfvs= 185.hrs)
057644 R091C0011-----DtnIn:ID:HYD-----AREAA-GEFAKas-TpeaDate_hh:mm-----Rvm-R.C-----DWfms


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070201 [SMIN= 1.39; SMAX= 9.24; SW= 0.00]-----AREA#A-QFAE#R#Tpea#Date_hh:mm-----Rv#m-R.C-----DWFCms
070202 CONTINUOUS STANDBY 5.0 0.01INF-W2 8.51 .239 1997.0622, 4:00 243.46 1562 .000
070203 [LOGS= 2 ;CNM=100.0]
070204 [Previous area: IApex= 4.67;SLFP=2.00;LGP= 40.0M#P=250;SCP#=.0]
070205 [Impervious area: IAImp= 1.57;SLP#=.50;LGI#= 239.196M#I=.013;SCI#=.0]
070206 [IAR#Cimp= 1.50; IAR#Cpex= 6.00]
070207 [SMIN= 1.39; SMAX= 9.24; SW= 0.00]
070208 [IAR#Cimp= 1.50; IAR#Cpex= 6.00]
070209 [SMIN= 1.39; SMAX= 9.24; SW= 0.00]
070210 R097R098C0001-----D#m-IN#D#M-----AREA#A-QFAE#R#Tpea#Date_hh:mm-----Rv#m-R.C-----DWFCms
070211 CONTINUOUS STANDBY 5.0 0.01INF-W3 10.03 .307 1997.0622, 4:00 276.18 1638 .000
070212 [XIMP=.66;TIMP#.67]
070213 [LOGS= 2 ;CNM=100.0]
070214 [Previous area: IApex= 4.67;SLFP=2.00;LGP= 40.0M#P=250;SCP#=.0]
070215 [Impervious area: IAImp= 1.57;SLP#=.50;LGI#= 239.196M#I=.013;SCI#=.0]
070216 [IAR#Cimp= 1.50; IAR#Cpex= 6.00]
070217 [SMIN= 1.39; SMAX= 9.24; SW= 0.00]
070218 R097R098C0002-----D#m-IN#D#M-----AREA#A-QFAE#R#Tpea#Date_hh:mm-----Rv#m-R.C-----DWFCms
070219 CONTINUOUS STANDBY 5.0 0.01INF-W4 10.11 .299 1997.0622, 4:00 263.82 1609 .000
070220 [XIMP=.66;TIMP#.67]
070221 [LOGS= 2 ;CNM=100.0]
070222 [Previous area: IApex= 4.67;SLFP=2.00;LGP= 40.0M#P=250;SCP#=.0]
070223 [Impervious area: IAImp= 1.57;SLP#=.50;LGI#= 260.196M#I=.013;SCI#=.0]
070224 [IAR#Cimp= 1.50; IAR#Cpex= 6.00]
070225 [SMIN= 1.39; SMAX= 9.24; SW= 0.00]
070226 R097R098C0002-----D#m-IN#D#M-----AREA#A-QFAE#R#Tpea#Date_hh:mm-----Rv#m-R.C-----DWFCms
070227 CONTINUOUS STANDBY 5.0 0.01INF-W5 6.20 .195 1997.0622, 4:00 237.69 1595 .000
070228 [XIMP=.57;TIMP#.67]
070229 [LOGS= 2 ;CNM=100.0]
070230 [Previous area: IApex= 4.67;SLFP=2.00;LGP= 40.0M#P=250;SCP#=.0]
070231 [Impervious area: IAImp= 1.57;SLP#=.50;LGI#= 203.196M#I=.013;SCI#=.0]
070232 [IAR#Cimp= 1.50; IAR#Cpex= 6.00]
070233 [SMIN= 1.39; SMAX= 9.24; SW= 0.00]
070234 R097R098C0003-----D#m-IN#D#M-----AREA#A-QFAE#R#Tpea#Date_hh:mm-----Rv#m-R.C-----DWFCms
070235 CONTINUOUS STANDBY 5.0 0.01INF-W6 8.81 .249 1997.0622, 4:00 286.44 1662 .000
070236 [XIMP=.71;TIMP#.81]
070237 [LOGS= 2 ;CNM=100.0]
070238 [Previous area: IApex= 4.67;SLFP=2.00;LGP= 40.0M#P=250;SCP#=.0]
070239 [Impervious area: IAImp= 1.57;SLP#=.50;LGI#= 228.196M#I=.013;SCI#=.0]
070240 [IAR#Cimp= 1.50; IAR#Cpex= 6.00]
070241 [SMIN= 1.39; SMAX= 9.24; SW= 0.00]
070242 R097R098C0004-----D#m-IN#D#M-----AREA#A-QFAE#R#Tpea#Date_hh:mm-----Rv#m-R.C-----DWFCms
070243 ADD HYD 5.0 0.02INF-W 5.76 .171 1997.0622, 4:00 255.46 1544 .000
070244 + 5.0 0.02INF-W2 8.51 .239 1997.0622, 4:00 243.46 1562 .000
070245 + 5.0 0.02INF-W3 10.03 .307 1997.0622, 4:00 276.18 1638 .000
070246 + 5.0 0.02INF-W4 10.11 .299 1997.0622, 4:00 263.82 1609 .000
070247 + 5.0 0.02INF-W5 6.20 .195 1997.0622, 4:00 237.69 1595 .000
070248 + 5.0 0.02INF-W6 8.81 .249 1997.0622, 4:00 286.44 1662 .000
070249 + 5.0 0.02INF-WCD-PH 48.42 1.450 1997.0622, 4:00 264.70 1610 .000
070250 S#M# 5.0 0.01INF-WCD-PH 48.42 1.450 1997.0622, 4:00 264.70 1610 .000
070251 *** CONTINUOUS RAINFALL DATA ***
070252 ***** END OF RUN : 97 *****
070253 ** END OF RUN : 97 **
070254
070255 *****
070256 *****
070257 *****
070258 *****
070259 *****
070260 *****
070261 R097R098C0004-----D#m-IN#D#M-----AREA#A-QFAE#R#Tpea#Date_hh:mm-----Rv#m-R.C-----DWFCms
070262 START [TZRO= .00 hrs on 19980101]
070263 [METRO# 2 (1imperv; 2metric output)]
070264 [INTFORM# 0]
070265 [MUN# 0]
070266 *****
070267 *****
070268 *****
070269 [SWHYMD Ver:15/02/Jan 2001 GIBTA / INPUT DATA FILE]
070270 *****
070271 * Project Name: Barhaven Conservancy Development
070272 * Project Number: 1474
070273 * Date : 2021/08/18
070274 * Modeler : J.Burnett, P.Eng.
070275 * Updated : 2024/Mar/11
070276 * Company : J.F. Sabourin and Associates
070277 * License # : 2092624
070278 *****
070279 * Octava International Airport (1967 - 2003)
070280 R098R099C0003-----D#m-IN#D#M-----AREA#A-QFAE#R#Tpea#Date_hh:mm-----Rv#m-R.C-----DWFCms
070281 ***** READ A&S DATA *****
070282 [FILENAME = YOM_1967_2007_123 ]
070283 [D#M= 1967.0622]
070284 [Start Date: 1998.0101; End Date: 1999.1231]
070285 [DT= 60; min; Length= 5088; hrs; WetRes= 291; DryRes= 4797; PTO= 440.30]
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07561 # Assumed 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07562 # Total Volume provided by LID = 193 m3
07563 # Soil infiltration rates assumed at 9m/hr with a safety factor of 2.5
07564 ROUTE RESERVOIR -> DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07565 [IMP:area] IArea: 4.67:SLFP=2.00:LG= 40.0MNP:250:SCP= .0]
07566 [IARCLimp: 1.50: IARCP= 6.00]
07567 [SMIN: 41.38: SMAX=275.84: SK= .030]
07568 (MstUsed=1310E-01 m3, TotOfVol=1173E+01 m3, N-OfV= 90, TotDurOfV= 104 hrs)
07569 R0099:CO001-----DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07570 CONTINUOUS STANDHYD 5.0 01:INF-W1 10.11 .333 1999.0717.15:00 227.58 n/a .000
07571 [XMP:=66:TIMP:=76]
07572 [LGS= 2 :CN= 71.0]
07573 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MNP:250:SCP= .0]
07574 [Impervious area: IArea: 1.57:SLFP= 1.50:LG= 259.0MNP:013:SCP= .0]
07575 [IARCLimp: 1.50: IARCP= 6.00]
07576 [SMIN: 41.38: SMAX=275.84: SK= .030]
07577 # LID for Outlet W4 (24 catchbasins, 30 m long trench each)
07578 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07579 # Total Volume provided by LID = 193 m3
07580 # Soil infiltration rates assumed at 9m/hr with a safety factor of 2.5
07581 ROUTE RESERVOIR -> DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07582 [IMP:area] IArea: 4.67:SLFP=2.00:LG= 40.0MNP:250:SCP= .0]
07583 [IARCLimp: 1.50: IARCP= 6.00]
07584 [SMIN: 41.38: SMAX=275.84: SK= .030]
07585 (MstUsed=1310E-01 m3, TotOfVol=1173E+01 m3, N-OfV= 90, TotDurOfV= 104 hrs)
07586 R0099:CO001-----DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07587 CONTINUOUS STANDHYD 5.0 01:INF-W1 10.11 .333 1999.0717.15:00 209.73 n/a .000
07588 [XMP:=60:TIMP:=70]
07589 [LGS= 2 :CN= 71.0]
07590 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MNP:250:SCP= .0]
07591 [Impervious area: IArea: 1.57:SLFP= 1.50:LG= 260.0MNP:013:SCP= .0]
07592 [IARCLimp: 1.50: IARCP= 6.00]
07593 [SMIN: 41.38: SMAX=275.84: SK= .030]
07594 # LID for Outlet W4 (27 catchbasins, 30 m long trench each)
07595 # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07596 # Total Volume provided by LID = 186 m3
07597 # Soil infiltration rates assumed at 9m/hr with a safety factor of 2.5
07598 ROUTE RESERVOIR -> DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07599 [IMP:area] IArea: 4.67:SLFP=2.00:LG= 40.0MNP:250:SCP= .0]
07600 [IARCLimp: 1.50: IARCP= 6.00]
07601 [SMIN: 41.38: SMAX=275.84: SK= .030]
07602 (MstUsed=1310E-01 m3, TotOfVol=9419E+00 m3, N-OfV= 96, TotDurOfV= 98 hrs)
07603 R0099:CO001-----DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07604 CONTINUOUS STANDHYD 5.0 01:INF-W1 10.11 .333 1999.0717.15:00 209.73 n/a .000
07605 [XMP:=60:TIMP:=70]
07606 [LGS= 2 :CN= 71.0]
07607 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MNP:250:SCP= .0]
07608 [Impervious area: IArea: 1.57:SLFP= 1.50:LG= 203.0MNP:013:SCP= .0]
07609 [IARCLimp: 1.50: IARCP= 6.00]
07610 [SMIN: 41.38: SMAX=275.84: SK= .030]
07611 # LID for Outlet W5 (16 catchbasins, 30 m long trench each)
07612 # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07613 # Total Volume provided by LID = 110 m3
07614 # Soil infiltration rates assumed at 9m/hr with a safety factor of 2.5
07615 ROUTE RESERVOIR -> DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07616 [IMP:area] IArea: 4.67:SLFP=2.00:LG= 40.0MNP:250:SCP= .0]
07617 [IARCLimp: 1.50: IARCP= 6.00]
07618 [SMIN: 41.38: SMAX=275.84: SK= .030]
07619 (MstUsed=1100E-01 m3, TotOfVol=9419E+00 m3, N-OfV= 96, TotDurOfV= 98 hrs)
07620 R0099:CO001-----DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07621 CONTINUOUS STANDHYD 5.0 01:INF-W1 10.11 .333 1999.0717.15:00 200.84 n/a .000
07622 [XMP:=60:TIMP:=70]
07623 [LGS= 2 :CN= 71.0]
07624 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MNP:250:SCP= .0]
07625 [Impervious area: IArea: 1.57:SLFP= 1.50:LG= 228.0MNP:013:SCP= .0]
07626 [IARCLimp: 1.50: IARCP= 6.00]
07627 [SMIN: 41.38: SMAX=275.84: SK= .030]
07628 # LID for Outlet W6 (24 catchbasins, 30 m long trench each)
07629 # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07630 # Total Volume provided by LID = 186 m3
07631 # Soil infiltration rates assumed at 9m/hr with a safety factor of 2.5
07632 ROUTE RESERVOIR -> DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07633 [IMP:area] IArea: 4.67:SLFP=2.00:LG= 40.0MNP:250:SCP= .0]
07634 [IARCLimp: 1.50: IARCP= 6.00]
07635 [SMIN: 41.38: SMAX=275.84: SK= .030]
07636 (MstUsed=1648E-01 m3, TotOfVol=1437E+01 m3, N-OfV= 96, TotDurOfV= 96 hrs)
07637 R0099:CO001-----DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07638 ADD HYD + 5.0 02:INF-W2 8.51 .223 1999.0717.15:00 195.66 n/a .000
07639 + 5.0 02:INF-W3 10.03 .428 1999.0717.15:00 180.18 n/a .000
07640 + 5.0 02:INF-W4 10.11 .333 1999.0717.15:00 209.73 n/a .000
07641 + 5.0 02:INF-W5 6.20 .254 1999.0717.15:00 200.84 n/a .000
07642 + 5.0 02:INF-W6 7.81 .283 1999.0717.15:00 242.59 n/a .000
07643 + 5.0 02:INF-W7 8.51 .223 1999.0717.15:00 195.66 n/a .000
07644 + 5.0 02:INF-W8 10.03 .428 1999.0717.15:00 180.18 n/a .000
07645 R0099:CO001-----DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07646 ADD HYD + 5.0 02:INF-W1 10.11 .333 1999.0717.15:00 210.67 n/a .000
07647 + 5.0 02:INF-W2 8.51 .223 1999.0717.15:00 195.66 n/a .000
07648 + 5.0 02:INF-W3 10.03 .428 1999.0717.15:00 180.18 n/a .000
07649 + 5.0 02:INF-W4 10.11 .333 1999.0717.15:00 209.73 n/a .000
07650 + 5.0 02:INF-W5 6.20 .254 1999.0717.15:00 200.84 n/a .000
07651 + 5.0 02:INF-W6 7.81 .283 1999.0717.15:00 242.59 n/a .000
07652 + 5.0 02:INF-W7 8.51 .223 1999.0717.15:00 195.66 n/a .000
07653 + 5.0 02:INF-W8 10.03 .428 1999.0717.15:00 180.18 n/a .000
07654 # Barhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS
07655 # Set infiltration to 0 (CN = 99.99) for water balance analysis
07656 #
07657 R0099:CO001-----DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07658 CONTINUOUS STANDHYD 5.0 01:INF-W1 5.76 .235 1999.0717.15:00 252.69 n/a .000
07659 [XMP:=60:TIMP:=60]
07660 [LGS= 2 :CN=100.0]
07661 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MNP:250:SCP= .0]
07662 [Impervious area: IArea: 1.57:SLFP= 1.50:LG= 196.0MNP:013:SCP= .0]
07663 [IARCLimp: 1.50: IARCP= 6.00]
07664 [SMIN: 1.39: SMAX= 9.24: SK= .000]
07665 R0099:CO001-----DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07666 CONTINUOUS STANDHYD 5.0 01:INF-W2 8.51 .223 1999.0717.15:00 241.39 n/a .000
07667 [XMP:=50:TIMP:=60]
07668 [LGS= 2 :CN=100.0]
07669 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MNP:250:SCP= .0]
07670 [Impervious area: IArea: 1.57:SLFP= 1.50:LG= 238.0MNP:013:SCP= .0]
07671 [IARCLimp: 1.50: IARCP= 6.00]
07672 [SMIN: 1.39: SMAX= 9.24: SK= .000]
07673 R0099:CO002-----DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07674 CONTINUOUS STANDHYD 5.0 01:INF-W3 7.81 .283 1999.0717.15:00 242.59 n/a .000
07675 [XMP:=66:TIMP:=76]
07676 [LGS= 2 :CN=100.0]
07677 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MNP:250:SCP= .0]
07678 [Impervious area: IArea: 1.57:SLFP= 1.50:LG= 259.0MNP:013:SCP= .0]
07679 [IARCLimp: 1.50: IARCP= 6.00]
07680 [SMIN: 1.39: SMAX= 9.24: SK= .000]
07681 R0099:CO002-----DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07682 CONTINUOUS STANDHYD 5.0 01:INF-W4 10.11 .333 1999.0717.15:00 200.84 n/a .000
07683 [XMP:=60:TIMP:=70]
07684 [LGS= 2 :CN=100.0]
07685 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MNP:250:SCP= .0]
07686 [Impervious area: IArea: 1.57:SLFP= 1.50:LG= 260.0MNP:013:SCP= .0]
07687 [IARCLimp: 1.50: IARCP= 6.00]
07688 [SMIN: 1.39: SMAX= 9.24: SK= .000]
07689 R0099:CO002-----DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07690 CONTINUOUS STANDHYD 5.0 01:INF-W5 6.20 .254 1999.0717.15:00 254.79 n/a .000
07691 [XMP:=60:TIMP:=70]
07692 [LGS= 2 :CN=100.0]
07693 [Previous area: IArea: 4.67:SLFP=2.00:LG= 40.0MNP:250:SCP= .0]
07694 [Impervious area: IArea: 1.57:SLFP= 1.50:LG= 203.0MNP:013:SCP= .0]
07695 [IARCLimp: 1.50: IARCP= 6.00]
07696 [SMIN: 1.39: SMAX= 9.24: SK= .000]
07697 R0099:CO002-----DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07698 ADD HYD + 5.0 02:INF-W2 8.51 .223 1999.0717.15:00 241.39 n/a .000
07699 + 5.0 02:INF-W3 10.03 .428 1999.0717.15:00 212.46 n/a .000
07700 + 5.0 02:INF-W4 10.11 .333 1999.0717.15:00 260.65 n/a .000
07701 + 5.0 02:INF-W5 6.20 .254 1999.0717.15:00 254.79 n/a .000
07702 + 5.0 02:INF-W6 7.81 .283 1999.0717.15:00 282.44 n/a .000
07703 + 5.0 02:INF-W7 8.51 .223 1999.0717.15:00 261.49 n/a .000
07704 + 5.0 02:INF-W8 10.03 .428 1999.0717.15:00 212.46 n/a .000
07705 R0099:CO002-----DTain:ID:HYD-----AREAA-QFEAKms-TpeakDate_hhm-----Rvm-R.C-----DWfms
07706 ADD HYD + 5.0 02:INF-W2 8.51 .223 1999.0717.15:00 241.39 n/a .000
07707 + 5.0 02:INF-W3 10.03 .428 1999.0717.15:00 212.46 n/a .000
07708 + 5.0 02:INF-W4 10.11 .333 1999.0717.15:00 260.65 n/a .000
07709 + 5.0 02:INF-W5 6.20 .254 1999.0717.15:00 254.79 n/a .000
07710 + 5.0 02:INF-W6 7.81 .283 1999.0717.15:00 282.44 n/a .000
07711 + 5.0 02:INF-W7 8.51 .223 1999.0717.15:00 261.49 n/a .000
07712 + 5.0 02:INF-W8 10.03 .428 1999.0717.15:00 212.46 n/a .000
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08281 [Mdt=05ed=1930E-01 m3, TotDurVol=2355E+01 m3, N-Ovr= 100, TotDurOvr= 164.hrs]
08282 R0103:C00015-----Dtain-ID:INVD-----AREAh-QFEARgms-TpeakDate_hh:mm-----RvNm-R.C-----DWFCms
08283 CONTINUOUS STANDHYD 5.0 01:IN4 10.11 .328 2003.0711.17:00 289.96 .523 .000
08284 [XfM= 50:1TM= 70]
08285 [LOSS= 2 :CN= 71.0]
08286 [Fervious area: IArea= 4.67:SLFP=2.00:IGP= 40.:MNF= 250:SCF= .0]
08287 [Impervious area: IArea= 1.57:SLPI= .50:IGI= 203.:MNI=.013:SCI= .0]
08288 [IARCClmp= 1.50: IARCCPcr= 6.00]
08289 [SMIN= 41.38: SMAX=275.84: SK= .030]
08290 # LID for Outlet W6 (27 catchbasins, 30 m long trench each)
08291 # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
08292 # Total Volume provided by LID = 186 m3
08293 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
08294 R0103:C00011-----Dtain-ID:INVD-----AREAh-QFEARgms-TpeakDate_hh:mm-----RvNm-R.C-----DWFCms
08295 ROUTE RESERVOIR -> 5.0 02:IN5 6.20 .198 2003.0711.17:00 279.28 n/a .000
08296 out <= 5.0 01:IN4-LID 2.49 .001 2003.0501.10:25 289.97 n/a .000
08297 overflow <= 5.0 01:IN4-LID 7.62 .322 2003.0711.17:00 289.96 n/a .000
08298 [Mdt=05ed=1860E-01 m3, TotDurVol=2209E+01 m3, N-Ovr= 96, TotDurOvr= 163.hrs]
08299 R0103:C00012-----Dtain-ID:INVD-----AREAh-QFEARgms-TpeakDate_hh:mm-----RvNm-R.C-----DWFCms
08300 CONTINUOUS STANDHYD 5.0 01:IN6 6.20 .198 2003.0711.17:00 279.28 .524 .000
08301 [XfM= 57:1TM= 67]
08302 [LOSS= 2 :CN= 71.0]
08303 [Fervious area: IArea= 4.67:SLFP=2.00:IGP= 40.:MNF= 250:SCF= .0]
08304 [Impervious area: IArea= 1.57:SLPI= .50:IGI= 203.:MNI=.013:SCI= .0]
08305 [IARCClmp= 1.50: IARCCPcr= 6.00]
08306 [SMIN= 41.38: SMAX=275.84: SK= .030]
08307 # LID for Outlet W6 (16 catchbasins, 30 m long trench each)
08308 # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
08309 # Total Volume provided by LID = 110 m3
08310 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
08311 R0103:C00013-----Dtain-ID:INVD-----AREAh-QFEARgms-TpeakDate_hh:mm-----RvNm-R.C-----DWFCms
08312 ROUTE RESERVOIR -> 5.0 02:IN5 6.20 .198 2003.0711.17:00 279.28 n/a .000
08313 out <= 5.0 01:IN4-LID 1.52 .001 2003.0501.10:25 279.27 n/a .000
08314 overflow <= 5.0 01:IN4-LID-Out 4.68 .193 2003.0711.17:00 279.28 n/a .000
08315 [Mdt=05ed=1100E-01 m3, TotDurVol=1306E+01 m3, N-Ovr= 94, TotDurOvr= 161.hrs]
08316 R0103:C00014-----Dtain-ID:INVD-----AREAh-QFEARgms-TpeakDate_hh:mm-----RvNm-R.C-----DWFCms
08317 CONTINUOUS STANDHYD 5.0 01:IN6 7.81 .279 2003.0711.17:00 329.94 .594 .000
08318 [XfM= 71:1TM= 81]
08319 [LOSS= 2 :CN= 71.0]
08320 [Fervious area: IArea= 4.67:SLFP=2.00:IGP= 40.:MNF= 250:SCF= .0]
08321 [Impervious area: IArea= 1.57:SLPI= .50:IGI= 228.:MNI=.013:SCI= .0]
08322 [IARCClmp= 1.50: IARCCPcr= 6.00]
08323 [SMIN= 41.38: SMAX=275.84: SK= .030]
08324 # LID for Outlet W6 (24 catchbasins, 30 m long trench each)
08325 # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
08326 # Total Volume provided by LID = 145 m3
08327 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
08328 R0103:C00015-----Dtain-ID:INVD-----AREAh-QFEARgms-TpeakDate_hh:mm-----RvNm-R.C-----DWFCms
08329 ROUTE RESERVOIR -> 5.0 02:IN5 7.81 .279 2003.0711.17:00 329.94 n/a .000
08330 out <= 5.0 01:IN4-LID 1.96 .001 2003.0501.10:20 329.94 n/a .000
08331 overflow <= 5.0 01:IN4-LID-Out 5.85 .275 2003.0711.17:00 329.94 n/a .000
08332 [Mdt=05ed=1100E-01 m3, TotDurVol=1328E+01 m3, N-Ovr= 99, TotDurOvr= 162.hrs]
08333 R0103:C00016-----Dtain-ID:INVD-----AREAh-QFEARgms-TpeakDate_hh:mm-----RvNm-R.C-----DWFCms
08334 ADD HYD + 5.0 02:IN1 5.76 .182 2003.0711.17:00 273.32 n/a .000
08335 + 5.0 02:IN2 8.31 .253 2003.0711.17:00 284.44 n/a .000
08336 + 5.0 02:IN3 10.03 .343 2003.0711.17:00 311.42 n/a .000
08337 + 5.0 02:IN4 10.11 .328 2003.0711.17:00 289.96 n/a .000
08338 + 5.0 02:IN5 6.20 .198 2003.0711.17:00 279.28 n/a .000
08339 + 5.0 02:IN6 7.81 .279 2003.0711.17:00 329.94 n/a .000
08340 SIM= 5.0 01:INCD-PH3 48.42 .183 2003.0711.17:00 281.20 n/a .000
08341 R0103:C00017-----Dtain-ID:INVD-----AREAh-QFEARgms-TpeakDate_hh:mm-----RvNm-R.C-----DWFCms
08342 ADD HYD + 5.0 02:IN1 4.41 .178 2003.0711.17:00 273.32 n/a .000
08343 + 5.0 02:IN2-LID-Out 6.52 .247 2003.0711.17:00 284.44 n/a .000
08344 + 5.0 02:IN3-LID-Out 7.56 .337 2003.0711.17:00 311.42 n/a .000
08345 + 5.0 02:IN4-LID-Out 7.62 .322 2003.0711.17:00 289.96 n/a .000
08346 + 5.0 02:IN5-LID-Out 4.68 .193 2003.0711.17:00 279.28 n/a .000
08347 + 5.0 02:IN6-LID-Out 5.85 .275 2003.0711.17:00 329.94 n/a .000
08348 SIM= 5.0 01:INCD-PH3-L1 36.64 .151 2003.0711.17:00 291.02 n/a .000
08349 #
08350 # Barhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS
08351 #
08352 # Set infiltration rates to 0 for balance analysis
08353 #
08354 R0103:C00018-----Dtain-ID:INVD-----AREAh-QFEARgms-TpeakDate_hh:mm-----RvNm-R.C-----DWFCms
08355 CONTINUOUS STANDHYD 5.0 01:INP-W5 5.76 .228 2003.0711.17:00 341.42 .616 .000
08356 [XfM= 55:1TM= 66]
08357 [LOSS= 2 :CN=100.0]
08358 [Fervious area: IArea= 4.67:SLFP=2.00:IGP= 40.:MNF= 250:SCF= .0]
08359 [Impervious area: IArea= 1.57:SLPI= .50:IGI= 196.:MNI=.013:SCI= .0]
08360 [IARCClmp= 1.50: IARCCPcr= 6.00]
08361 [SMIN= 1.39: SMAX= 9.24: SK= .000]
08362 R0103:C00019-----Dtain-ID:INVD-----AREAh-QFEARgms-TpeakDate_hh:mm-----RvNm-R.C-----DWFCms
08363 CONTINUOUS STANDHYD 5.0 01:INP-W2 8.51 .331 2003.0711.17:00 328.44 .592 .000
08364 [XfM= 50:1TM= 60]
08365 [LOSS= 2 :CN=100.0]
08366 [Fervious area: IArea= 4.67:SLFP=2.00:IGP= 40.:MNF= 250:SCF= .0]
08367 [Impervious area: IArea= 1.57:SLPI= .50:IGI= 238.:MNI=.013:SCI= .0]
08368 [IARCClmp= 1.50: IARCCPcr= 6.00]
08369 [SMIN= 1.39: SMAX= 9.24: SK= .000]
08370 R0103:C00020-----Dtain-ID:INVD-----AREAh-QFEARgms-TpeakDate_hh:mm-----RvNm-R.C-----DWFCms
08371 CONTINUOUS STANDHYD 5.0 01:INP-W3 10.03 .400 2003.0711.17:00 364.17 .657 .000
08372 [XfM= 60:1TM= 75]
08373 [LOSS= 2 :CN=100.0]
08374 [Fervious area: IArea= 4.67:SLFP=2.00:IGP= 40.:MNF= 250:SCF= .0]
08375 [Impervious area: IArea= 1.57:SLPI= .50:IGI= 235.:MNI=.013:SCI= .0]
08376 [IARCClmp= 1.50: IARCCPcr= 6.00]
08377 [SMIN= 1.29: SMAX= 9.24: SK= .000]
08378 R0103:C00021-----Dtain-ID:INVD-----AREAh-QFEARgms-TpeakDate_hh:mm-----RvNm-R.C-----DWFCms
08379 CONTINUOUS STANDHYD 5.0 01:INP-W4 10.11 .399 2003.0711.17:00 350.68 .632 .000
08380 [XfM= 60:1TM= 70]
08381 [LOSS= 2 :CN=100.0]
08382 [Fervious area: IArea= 4.67:SLFP=2.00:IGP= 40.:MNF= 250:SCF= .0]
08383 [Impervious area: IArea= 1.57:SLPI= .50:IGI= 260.:MNI=.013:SCI= .0]
08384 [IARCClmp= 1.50: IARCCPcr= 6.00]
08385 [SMIN= 1.39: SMAX= 9.24: SK= .000]
08386 R0103:C00022-----Dtain-ID:INVD-----AREAh-QFEARgms-TpeakDate_hh:mm-----RvNm-R.C-----DWFCms
08387 CONTINUOUS STANDHYD 5.0 01:INP-W5 6.20 .245 2003.0711.17:00 343.98 .620 .000
08388 [XfM= 57:1TM= 67]
08389 [LOSS= 2 :CN=100.0]
08390 [Fervious area: IArea= 4.67:SLFP=2.00:IGP= 40.:MNF= 250:SCF= .0]
08391 [Impervious area: IArea= 1.57:SLPI= .50:IGI= 203.:MNI=.013:SCI= .0]
08392 [IARCClmp= 1.50: IARCCPcr= 6.00]
08393 [SMIN= 1.39: SMAX= 9.24: SK= .000]
08394 R0103:C00023-----Dtain-ID:INVD-----AREAh-QFEARgms-TpeakDate_hh:mm-----RvNm-R.C-----DWFCms
08395 CONTINUOUS STANDHYD 5.0 01:INP-W6 7.81 .315 2003.0711.17:00 375.60 .677 .000
08396 [XfM= 71:1TM= 81]
08397 [LOSS= 2 :CN=100.0]
08398 [Fervious area: IArea= 4.67:SLFP=2.00:IGP= 40.:MNF= 250:SCF= .0]
08399 [Impervious area: IArea= 1.57:SLPI= .50:IGI= 228.:MNI=.013:SCI= .0]
08400 [IARCClmp= 1.50: IARCCPcr= 6.00]
08401 [SMIN= 1.39: SMAX= 9.24: SK= .000]
08402 R0103:C00024-----Dtain-ID:INVD-----AREAh-QFEARgms-TpeakDate_hh:mm-----RvNm-R.C-----DWFCms
08403 ADD HYD + 5.0 02:INP-W1 5.76 .228 2003.0711.17:00 341.42 n/a .000
08404 + 5.0 02:INP-W2 8.51 .331 2003.0711.17:00 328.44 n/a .000
08405 + 5.0 02:INP-W3 10.03 .400 2003.0711.17:00 364.17 n/a .000
08406 + 5.0 02:INP-W4 10.11 .399 2003.0711.17:00 350.68 n/a .000
08407 + 5.0 02:INP-W5 6.20 .245 2003.0711.17:00 343.98 n/a .000
08408 + 5.0 02:INP-W6 7.81 .315 2003.0711.17:00 375.60 n/a .000
08409 SIM= 5.0 01:INP-PCD-PH 48.42 .183 2003.0711.17:00 351.63 n/a .000
08410 #####
08411 # CONTINUOUS RAINFALL DATA
08412 #####
08413 R0103:C00002-----Dtain-ID:INVD-----AREAh-QFEARgms-TpeakDate_hh:mm-----RvNm-R.C-----DWFCms
08414 FINISH
08415
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08419 R0067:C00002 READ ARE DATA
08420 #
08421 # WARNING: Requested start date is less than start date in file.
08422 # WARNING: Missing rainfall increments were set to 0.
08423 # WARNING: Missing rainfall increments were set to 0.
08424 # WARNING: Missing rainfall increments were set to 0.
08425 # WARNING: Missing rainfall increments were set to 0.
08426 # WARNING: Missing rainfall increments were set to 0.
08427 # WARNING: Missing rainfall increments were set to 0.
08428 # WARNING: Missing rainfall increments were set to 0.
08429 # WARNING: Missing rainfall increments were set to 0.
08430 # WARNING: Missing rainfall increments were set to 0.
08431 # WARNING: Requested start date is less than start date in file.
08432 # WARNING: Missing rainfall increments were set to 0.
08433 # WARNING: Missing rainfall increments were set to 0.
08434 # WARNING: Missing rainfall increments were set to 0.
08435 # WARNING: Missing rainfall increments were set to 0.
08436 # WARNING: Missing rainfall increments were set to 0.
08437 # WARNING: Missing rainfall increments were set to 0.
08438 # WARNING: Missing rainfall increments were set to 0.
08439 # WARNING: Missing rainfall increments were set to 0.
08440 # WARNING: Missing rainfall increments were set to 0.
08441 # WARNING: Requested start date is less than start date in file.
08442 # WARNING: Missing rainfall increments were set to 0.
08443 # WARNING: Missing rainfall increments were set to 0.
08444 # WARNING: Missing rainfall increments were set to 0.
08445 # WARNING: Missing rainfall increments were set to 0.
08446 # WARNING: Requested start date is less than start date in file.
08447 # WARNING: Missing rainfall increments were set to 0.
08448 # WARNING: Missing rainfall increments were set to 0.
08449 # WARNING: Missing rainfall increments were set to 0.
08450 # WARNING: Missing rainfall increments were set to 0.
08451 # WARNING: Missing rainfall increments were set to 0.
08452 # WARNING: Missing rainfall increments were set to 0.
08453 # WARNING: Requested start date is less than start date in file.
08454 # WARNING: Missing rainfall increments were set to 0.
08455 # WARNING: Missing rainfall increments were set to 0.
08456 # WARNING: Requested start date is less than start date in file.
08457 # WARNING: Missing rainfall increments were set to 0.
08458 # WARNING: Requested start date is less than start date in file.
08459 # WARNING: Missing rainfall increments were set to 0.
08460 # WARNING: Requested start date is less than start date in file.

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08461 # WARNING: Missing rainfall increments were set to 0.
08462 # WARNING: Requested start date is less than start date in file.
08463 # WARNING: Missing rainfall increments were set to 0.
08464 # WARNING: Requested start date is less than start date in file.
08465 # WARNING: Missing rainfall increments were set to 0.
08466 # Simulation ended on 2024-03-14 at 20:59:26
08467 #####
08468

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Attachment B

Water Budget Results

Table B1: BCD West - Pre Development Water Budget

Year	Total Rainfall		Evaporation		Runoff		Infiltration	
	(mm)	(m ³)	(mm)	(m ³)	(mm)	(m ³)	(mm)	(m ³)
1967	386.9	187,337	229.3	111,037	65.9	31,914	91.7	44,387
1968	592.8	287,034	382.3	185,124	71.2	34,465	139.3	67,444
1969	570.3	276,139	378.9	183,439	58.3	28,214	133.2	64,486
1970	558.9	270,619	380.2	184,107	55.5	26,888	123.1	59,624
1971	522.1	252,801	378.6	183,304	41.8	20,249	101.7	49,248
1972	784.3	379,758	478.9	231,859	127.3	61,648	178.1	86,251
1973	744.9	360,681	469.3	227,221	93.8	45,413	181.8	88,047
1974	386.2	186,998	290.8	140,781	25.3	12,265	70.1	33,952
1975	535.5	259,289	361.0	174,801	56.4	27,309	118.1	57,179
1976	493.2	238,807	356.1	172,399	38.8	18,782	98.4	47,626
1977	677.8	328,191	448.3	217,086	74.1	35,894	155.3	75,211
1978	641.4	310,566	426.9	206,690	56.6	27,415	157.9	76,460
1979	866.5	419,559	494.4	239,393	147.9	71,603	224.2	108,562
1980	622	301,172	419.0	202,885	61.5	29,778	141.5	68,509
1981	936.4	453,405	555.7	269,070	185.9	90,008	194.8	94,327
1982	596.1	288,632	413.7	200,333	49.7	24,055	132.7	64,244
1983	587.5	284,468	414.5	200,706	54.4	26,326	118.6	57,436
1984	459.4	222,441	291.7	141,241	52.5	25,396	115.3	55,804
1985	559.9	271,104	347.4	168,211	55.3	26,796	157.2	76,097
1986	849.4	411,279	509.1	246,487	152.7	73,918	187.7	90,875
1987	640.1	309,936	445.0	215,484	71.6	34,683	123.4	59,770
1988	643.8	311,728	434.9	210,583	69.8	33,802	139.1	67,343
1989	523.2	253,333	363.5	175,997	43.7	21,140	116.1	56,196
1990	727.8	352,401	477.1	230,992	89.2	43,195	161.5	78,213
1991	556	269,215	396.2	191,826	48.5	23,484	111.3	53,906
1992	732.8	354,822	466.6	225,923	99.1	47,970	167.1	80,929
1993	721.3	349,253	509.6	246,763	65.8	31,860	145.9	70,630
1994	540.2	261,565	357.7	173,213	62.7	30,369	119.8	57,983
1995	538.5	260,742	254.9	123,403	163.8	79,322	119.8	58,017
1996	512.2	248,007	354.7	171,755	49.0	23,711	108.5	52,541
1997	433.2	209,755	304.7	147,512	29.5	14,294	99.0	47,950
1998	440.3	213,193	313.0	151,550	34.5	16,681	92.9	44,963
1999	424.4	205,494	293.0	141,856	35.3	17,112	96.1	46,527
2000	535.9	259,483	363.9	176,196	59.0	28,587	113.0	54,700
2002	551.5	267,036	307.6	148,945	107.2	51,926	136.7	66,166
2003	554.6	268,537	349.9	169,431	79.7	38,610	124.9	60,496
Minimum	386.2	186,998	229.3	111,037	25.3	12,265	70.1	33,952
Maximum	936.4	453,405	555.7	269,070	185.9	90,008	224.2	108,562
Average	595.8	288,466	389.4	188,545	73.1	35,419	133.2	64,503
Percentage	100.0%	100.0%	65.4%	65.4%	12.3%	12.3%	22.4%	22.4%

Table B2: BCD West - Post Development Water Budget - Without LIDs

Year	Total Rainfall		Evaporation		Runoff		Infiltration	
	(mm)	(m ³)	(mm)	(m ³)	(mm)	(m ³)	(mm)	(m ³)
1967	386.9	187,337	127.4	61,692	215.6	104,398	43.9	21,247
1968	592.8	287,034	219.4	106,248	304.2	147,284	69.2	33,502
1969	570.3	276,139	225.4	109,134	278.4	134,811	66.5	32,194
1970	558.9	270,619	222.8	107,889	272.8	132,109	63.2	30,621
1971	522.1	252,801	225.0	108,950	242.9	117,602	54.2	26,248
1972	784.3	379,758	268.8	130,172	428.3	207,388	87.2	42,198
1973	744.9	360,681	275.1	133,179	380.5	184,248	89.3	43,254
1974	386.2	186,998	175.9	85,147	172.0	83,297	38.3	18,555
1975	535.5	259,289	205.1	99,329	268.9	130,216	61.4	29,744
1976	493.2	238,807	215.5	104,321	225.9	109,381	51.9	25,106
1977	677.8	328,191	253.5	122,745	345.0	167,034	79.3	38,412
1978	641.4	310,566	234.9	113,748	326.2	157,936	80.3	38,881
1979	866.5	419,559	274.7	133,005	484.4	234,527	107.5	52,027
1980	622	301,172	234.8	113,695	314.6	152,329	72.6	35,148
1981	936.4	453,405	317.0	153,501	523.3	253,372	96.1	46,532
1982	596.1	288,632	227.6	110,185	299.0	144,766	69.6	33,681
1983	587.5	284,468	236.1	114,310	288.5	139,692	62.9	30,466
1984	459.4	222,441	161.3	78,097	240.7	116,542	57.4	27,803
1985	559.9	271,104	187.2	90,623	295.2	142,936	77.5	37,545
1986	849.4	411,279	283.0	137,024	474.6	229,806	91.8	44,450
1987	640.1	309,936	259.9	125,853	315.2	152,639	64.9	31,444
1988	643.8	311,728	257.9	124,870	316.4	153,182	69.6	33,676
1989	523.2	253,333	211.6	102,462	251.8	121,922	59.8	28,950
1990	727.8	352,401	279.8	135,474	367.3	177,847	80.7	39,080
1991	556	269,215	226.4	109,628	271.1	131,262	58.5	28,326
1992	732.8	354,822	269.4	130,434	380.1	184,030	83.4	40,358
1993	721.3	349,253	290.6	140,684	354.7	171,760	76.0	36,809
1994	540.2	261,565	204.4	98,975	274.2	132,768	61.6	29,822
1995	538.5	260,742	141.5	68,509	341.7	165,437	55.3	26,796
1996	512.2	248,007	202.6	98,113	253.4	122,716	56.1	27,178
1997	433.2	209,755	168.5	81,588	212.0	102,631	52.7	25,537
1998	440.3	213,193	183.8	88,977	208.0	100,699	48.6	23,518
1999	424.4	205,494	162.9	78,881	210.7	102,031	50.8	24,583
2000	535.9	259,483	215.3	104,234	263.9	127,776	56.7	27,474
2002	551.5	267,036	168.5	81,588	317.0	153,487	66.0	31,962
2003	554.6	268,537	203.0	98,278	291.2	140,999	60.4	29,260
Minimum	386.2	186,998	127.4	61,692	172.0	83,297	38.3	18,555
Maximum	936.4	453,405	317.0	153,501	523.3	253,372	107.5	52,027
Average	595.8	288,466	222.7	107,821	305.8	148,079	67.3	32,566
Percentage	100.0%	100.0%	37.4%	37.4%	51.3%	51.3%	11.3%	11.3%

Table B3: BCD West - Post Development Water Budget - With LIDs

Year	Total Rainfall		Evaporation		Runoff		Infiltration	
	(mm)	(m ³)	(mm)	(m ³)	(mm)	(m ³)	(mm)	(m ³)
1967	386.9	187,337	127.4	61,692	173.4	83,976	86.1	41,669
1968	592.8	287,034	219.4	106,248	224.2	108,535	149.2	72,251
1969	570.3	276,139	225.4	109,134	205.3	99,405	139.6	67,600
1970	558.9	270,619	222.8	107,889	201.5	97,552	134.6	65,178
1971	522.1	252,801	225.0	108,950	169.4	82,039	127.7	61,812
1972	784.3	379,758	268.8	130,172	340.6	164,939	174.8	84,647
1973	744.9	360,681	275.1	133,179	296.4	143,506	173.5	83,995
1974	386.2	186,998	175.9	85,147	114.5	55,464	95.8	46,388
1975	535.5	259,289	205.1	99,329	201.3	97,471	129.1	62,490
1976	493.2	238,807	215.5	104,321	158.8	76,911	118.9	57,576
1977	677.8	328,191	253.5	122,745	256.0	123,959	168.3	81,487
1978	641.4	310,566	234.9	113,748	242.3	117,327	164.2	79,490
1979	866.5	419,559	274.7	133,005	392.7	190,122	199.2	96,433
1980	622	301,172	234.8	113,695	234.6	113,590	152.6	73,887
1981	936.4	453,405	317.0	153,501	416.5	201,653	202.9	98,250
1982	596.1	288,632	227.6	110,185	214.9	104,077	153.6	74,370
1983	587.5	284,468	236.1	114,310	205.7	99,606	145.7	70,551
1984	459.4	222,441	161.3	78,097	185.6	89,888	112.5	54,457
1985	559.9	271,104	187.2	90,623	228.1	110,438	144.7	70,043
1986	849.4	411,279	283.0	137,024	378.4	183,238	188.0	91,018
1987	640.1	309,936	259.9	125,853	230.1	111,409	150.1	72,674
1988	643.8	311,728	257.9	124,870	230.8	111,777	155.1	75,081
1989	523.2	253,333	211.6	102,462	182.1	88,171	129.5	62,701
1990	727.8	352,401	279.8	135,474	276.0	133,661	172.0	83,265
1991	556	269,215	226.4	109,628	187.1	90,609	142.5	68,978
1992	732.8	354,822	269.4	130,434	287.5	139,184	176.0	85,204
1993	721.3	349,253	290.6	140,684	250.1	121,118	180.6	87,451
1994	540.2	261,565	204.4	98,975	207.2	100,310	128.6	62,280
1995	538.5	260,742	141.5	68,509	289.7	140,254	107.3	51,978
1996	512.2	248,007	202.6	98,113	184.6	89,400	124.9	60,494
1997	433.2	209,755	168.5	81,588	150.0	72,643	114.7	55,525
1998	440.3	213,193	183.8	88,977	150.6	72,931	105.9	51,285
1999	424.4	205,494	162.9	78,881	160.3	77,611	101.2	49,003
2000	535.9	259,483	215.3	104,234	198.4	96,061	122.2	59,188
2002	551.5	267,036	168.5	81,588	260.9	126,328	122.1	59,121
2003	554.6	268,537	203.0	98,278	220.2	106,630	131.4	63,630
Minimum	386.2	186,998	127.4	61,692	114.5	55,464	86.1	41,669
Maximum	936.4	453,405	317.0	153,501	416.5	201,653	202.9	98,250
Average	595.8	288,466	222.7	107,821	230.7	111,716	142.4	68,929
Percentage	100.0%	100.0%	37.4%	37.4%	38.7%	38.7%	23.9%	23.9%

Table B4 - LID Infiltration Summary

LID	Area (ha)	Average Annual LID Infiltration Volume (m³/Yr)	Average Annual LID Infiltration Volume (mm/Yr)
W1	5.76	3,893	68
W2	8.51	5,365	63
W3	10.03	8,117	81
W4	10.11	7,650	76
W5	6.20	4,509	73
W6	7.81	6,826	87
Total/Average	48.42	36,361	75